Contract No.: GS
Mathematica Reference No.: 066

GS-10F-0050L (W81XWH-09-F-0511)

06663.500

2013 Health Care Survey of DoD Beneficiaries:

Adult Technical Manual

September 2013 Final

Submitted to:

TRICARE Management Activity 7700 Arlington Boulevard, Suite 5101 Falls Church, VA 22042-5101 (703) 681-3636

Task Order Officer: Richard R. Bannick, Ph. D., FACHE

Submitted by:

Mathematica Policy Research, Inc. 1100 First Street, NE, 12th Floor Washington, DC 20002-4221 (202) 484-9220

Project Director: Nancy A. Clusen



Contents

Chapter			Page
1	Introduction.		1
	A. Overviev	v of the HCSDB	2
	1. Sam	nple Design	2
		3 Adult HCSDB	
		vey Response – Quarters I-III	
		abase Development	
		orts	
	B. Organiza	ation of this Manual	4
2	Database		5
	A. Databas	e Design	5
	1. Data	a Sources	5
		able Naming Conventions	
		sing Value Conventions	
	O. 14110C	value conventions	17
	B. Cleaning	g and Editing	17
	1. Scar	n Review	17
	2. Addi	itional Ipsos Editing and Coding	17
		licate or Multiple Surveys	
		noval of Sensitive or Confidential Information	
		al Frequencies	
		a Cleaning and Recoding of Variables	
	7. Qua	lity Assurance	19
	C. Record S	Selection	20
	D. Construc	cted Variables	22
	1. Dem	nographic Variables	22
		CARE Prime Enrollment and Insurance Coverage	
		ventive Care	
		zation	
	E. Weightin	g Procedures	35
	1. Con	structing the Sampling Weight	36
		istment for Total Nonresponse	
	•	ghting Class Adjustments	
		ponse Propensity Model	
		culation of Combined Annual Weights	
		culation of Quarterly Jackknife Replicate Weights	
		culation of Annual Jackknife Replicates	
3	Analysis		45
-	-	se Rates	
	•		
		nition of Response Rates	
	2. Rep	orting	46

2013 HEALTH CARE SURVEY OF DOD BENEFICIARIES

B.	Variance Estimation	
	Taylor Series Linearization Jackknife Replication	48 48
C.	Significance Tests	49
D.	Demographic Adjustments	50
E.	Calculating Scores	51
F.	Tests for Trend	52
G.	Dependent and Independent Variables	52
H.	Reports	53
	2013 TRICARE Beneficiary Reports TRICARE Consumer Watch	53
	"Health Care Survey of DoD Beneficiaries: Annual Report"	
References		57

Tables

Table		Page
2.1	Variables in the 2013 Adult HCSDB Data File – Quarters I-III	7
2.2	Naming Conventions for 2013 HCSDB Variables – Quarters I-III	15
2.3	Coding of Missing Data and "Not Applicable" Responses	17
2.4	FLAG_FIN Variable For 2013 HCSDB	20
2.5	Preventive Care Standards	33
3.1	Response Rates Overall and by Enrollee Beneficiary Group: Quarters I-III, 2013	47

09/27/13 v

_					 		
7	$\alpha \alpha$	1111	$T \cap C$	A DE CI	$\Delta \Gamma \Delta \Delta \Gamma$	BENEFIC	

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

09/27/13 vi

Appendices

Appendi	X		Page
Α	Annotate	ed Questionnaire – Quarters I-III	A.1
В	Coding S	Scheme and Coding Tables – Quarters I-III	B.1
С	Mapping	the Military Treatment Facility (MTF) to the Catchment Area	C.1
D	Respons	se Rate Tables – Quarters I-III and Combined Annual	D.1
Е	Technica	al Description of 2013 TRICARE Beneficiary Reports	E.1
F	SAS Cod	de for File Development – Quarters I-III	F.1
	F.1	Q3FY2013\PROGRAMS\WEIGHTING\MERGESYN.SAS - Combine Item Response Data from survey contractor with the MPR sampling and DEERS variables.	F-3
	F.2.A	Q1FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.SAS - Implement Coding Scheme and Coding Tables for Quarter 1 FY2013	F-6
	F.2.B	Q1FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.FMT - Include file for Coding Scheme for Quarter 1 FY2013	F-26
	F.2.C	Q2FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.SAS - Implement Coding Scheme and Coding Tables for Quarter 2 FY2013	F-34
	F.2.D	Q2FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.FMT - Include file for Coding Scheme for Quarter 2 FY2013	F-57
	F.2.E	Q3FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.SAS - Implement Coding Scheme and Coding Tables for Quarter 3 FY2013	F-66
	F.2.F	Q3FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.FMT - Include file for Coding Scheme for Quarter 3 FY2013	F-87
	F.3	Q3FY2013\PROGRAMS\WEIGHTING\SELECTQ.SAS - Create Flag for Record Selection - Run Quarterly.	F-94
	F.4.A	Q3FY2013\PROGRAMS\CONSTRUCT\CONVARQ.SAS - Construct Variables for Analysis - Run Quarterly.	F-97
	F.4.B	Q3FY2013\PROGRAMS\CONSTRUCT\CONSTRUCT_CACSMPL.SAS - Include file for Convarq.sas	F-106
	F.4.C	Q3FY2013\PROGRAMS\CONSTRUCT\CONSTRUCT_CACSMPL.INC - Include file for Construct_Cacsmpl.SAS.	F-108
	F.4.D	Q3FY2013\PROGRAMS\CONSTRUCT\CONSVAR0.SAS - Include file for Convarq.sas.	F-112
	F.5.A	Q3FY2013\PROGRAMS\CONSTRUCT\MERGEQ.SAS - Merge Constructed Variables onto Data File.	F-115
	F.5.B	Q3FY2013\PROGRAMS\CONSTRUCT\SERVAFF.SAS - Merge SERVAFF variable to quarterly Data File.	F-125
	F.5.C	Q1FY2013\PROGRAMS\CONSTRUCT\MERGEQ.SAS - Merge Constructed Variables onto Data File.	F-127
	F.6	Q3FY2013\Programs\Weighting\NewWeights\smplA1A2.SAS - Construct the categorical variables to be used in the AnswerTree and the modeling - Run Quarterly	F-137

09/27/13 vii

F.7	Q3FY2013\Programs\Weighting\NewWeights\logmdA1.SAS - Do the 1st stage unknown eligibility adjustment modeling - Interactions in the model are determined based on the trees0 - Run Quarterly	F-142
F.7.A	Q3FY2013\Programs\Weighting\NewWeights\Zero_One_Cells.SAS - Include file for logmdaA1.sas.	F-165
F.8	Q3FY2013\Programs\Weighting\NewWeights\adjwt1.SAS - Form the weighting classes from the propensity scores then calculate the unknown eligibility adjusted weight - Run Quarterly.	F-166
F.9	Q3FY2013\Programs\Weighting\NewWeights\adjwt2.SAS - Form the weighting classes based on the answer trees then calculate the nonresponse adjusted weight - Run Quarterly	F-173
F.10	Q3FY2013\Programs\Weighting\NewWeights\adjwtp.SAS - Assign the final adjusted weight for everybody in the sample file - Run Quarterly	F-177
F.11.A	Q3FY2013\Programs\Weighting\NewWeights\postwt.SAS - Poststratify the weights - Run Quarterly	F-181
F.11.B	Q3FY2013\Programs\Weighting\NewWeights\calpoststr.SAS - Include file for postwt.sas	F-186
F.11.C	Q3FY2013\Programs\Weighting\NewWeights\design_effects_unequal_weights.sas - Include file for calpoststr.SAS	F-188
F.12	Q3FY2013\Programs\Weighting\NewWeights\repwtp_trimmed.SAS - Produce the replicate weights - Run Quarterly	F-190
F.13	Q3FY2013\Programs\WEIGHTING\ADDWGTSA.SAS - Merge the final quarterly weights with the final questionnaire/sample file - Run Quarterly	F-200
F.14	WEIGHTING\COMB2013.SAS - Combine quarterly datasets into one annual file - Annual	F-204
F.15	WEIGHTING\ADDWGTS.SAS - Merge the combined annual weights with the final questionnaire/sample file - Annual	F-207
F.16	WEIGHTING\FIX2011XCATCH.SAS - Fix catchment reporting variable (XCATCH) for 2011 - Annual	F-219
F.17	WEIGHTING\FIX2012XCATCH.SAS - Fix catchment reporting variable (XCATCH) for 2012 - Annual	F-221
F.18	WEIGHTING\XCATCH.INC - Create detailed CACSMPL for annual report cards - Annual.	F-223
F.19	WEIGHTING\CREPWT.SAS - Calculate combined replicate weights - Annual	F-226
F.20.A	Response_Rate\ANNUAL_RR.SAS - Combine Q1-Q3 and annual Response Rates into one excel file.	F-231
F.20.B	Response_Rate\TABLE02.SAS - Calculate the annual Response Rates	F-237
F.20.C	Response_Rate\TABLE02.IN1 - Include file1 used to Calculate annual Response Rates.	F-245
F.20.D	Response_Rate\TABLE02.IN2 - Include file2 used to Calculate annual Response Rates.	F-247
	le for Statistical and Web Specifications for the 2013 TRICARE	C 1

09/27/13 viii

G.

G.1.A	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ STEP1Q.SAS - Create and recode variables used in Adult Beneficiary Reports - Run Quarterly.	G-3
G.1.B	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ Convert.SAS - Convert Item Responses To Proportional Values	G-13
G.1.C	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ STEP2Q.SAS - Calculate CAHPS Adjusted Scores - Run Quarterly	G-14
G.1.D	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ REGRSREG.INC - Include file1 in step2q.sas	G-25
G.1.E	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ RISKARRY.INC - Include file2 in step2q.sas	G-26
G.1.F	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ RISKMEAN.INC - Include file3 in step2q.sas	G-27
G.1.G	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ REGARRAY.INC - Include file4 in step2q.sas.	G-28
G.1.H	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ RISKVARS.INC - Include file5 in step2q.sas	G-29
G.1.I	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ MEANFILE.INC - Include file6 in step2q.sas	G-30
G.1.J	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\ COMPOSIT.SAS - Calculate CAHPS Composite Scores - Run Quarterly	G- 31
G.1.K	Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\FILES.INC - Include file in composit.sas	G-36
G.2.A	Q3FY2013\PROGRAMS\LOADWEB\CAHPS_AdultQ3FY2013\LOADCAHQ.SAS - Convert CAHPS Scores into WEB layout - Run Quarterly	G-37
G.2.B	Q3FY2013\PROGRAMS\LOADWEB\LOADCAHQ.INC - Format definitions for converting the Scores Database into the WEB layout - Run Quarterly	G-43
G.3.A	Q1FY2013\PROGRAMS\BENCHMARK\BENCHA01.SAS - Extract Adult CAHPS Questions from NCBD - Run Quarterly	G-49
G.3.B	Q1FY2013\PROGRAMS\BENCHMARK\BENCHA02.SAS - Recode Adult CAHPS Questions from NCBD to be consistent with the HCSDB - Run Quarterly	G-52
G.3.C	Q3FY2013\PROGRAMS\BENCHMARK\BENCHA03.SAS - Calculate CAHPS Benchmark data for HCSDB - Run Quarterly.	G-55
G.3.D.1	Q3FY2013\PROGRAMS\BENCHMARK\QPREDTEST\ SAS2STATA_Grps.sas - Converts the groups datasets from SAS to STATA - Run Quarterly	G-62
G.3.D.2	Q3FY2013\PROGRAMS\BENCHMARK\QPREDTEST\vartest.do - Calculates Predicted Errors - Run Quarterly	G-63
G.3.D.3	Q3FY2013\PROGRAMS\BENCHMARK\QPREDTEST\ STATA2SAS_Proj.sas - Converts the Predicted Errors from STATA to SAS - Run Quarterly	G-66
G.3.D.4	Q3FY2013\PROGRAMS\BENCHMARK\QPREDTEST\PREDCOMP.SAS - Compiles Predicted Composite Errors - Run Quarterly	G-67
G.3.E	Q3FY2013\PROGRAMS\BENCHMARK\BENCHA04.SAS - Convert the Benchmark Scores Database into the WEB layout - Run Quarterly	G-68

09/27/13 ix

G.4.A	Q3FY2013\PROGRAMS\REPORTCARDS\MPR_ADULTQ3FY2013\ PRVCOMPQ.SAS - Calculate Preventive Care Composite Scores - Run Quarterly	G-73
G.4.B	Q3FY2013\PROGRAMS\REPORTCARDS\MPR_ADULTQ3FY2013\ SMOKING_BMI.sas - Calculates Healthy Behavior Composite Scores - Run Quarterly	G-88
G.4.C	Q3FY2013\PROGRAMS\REPORTCARDS\MPR_ADULTQ3FY2013\ LOADMPRQ.SAS - Convert the MPR Scores Database into the WEB layout - Run Quarterly.	. G-102
G.5.A	Q3FY2013\PROGRAMS\LOADWEB\FAKEQ.SAS - Generate the WEB layout/template file - Run Quarterly	. G-106
G.5.B	Q3FY2013\PROGRAMS\LOADWEB\MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases into the WEB layout - Run Quarterly	. G-114
G.6	Q3FY2013\PROGRAMS\LOADWEB\CONUS_Q.SAS - Generate CAHPS CONUS scores and perform significance tests - Run Quarterly	. G-119
G.7	Q3FY2013\PROGRAMS\LOADWEB\CreateTotal_qp4.sas - Combines the regular totalq and purchase totalq into one dataset - Run Quarterly	. G-136
G.8	Q3FY2013\PROGRAMS\LOADWEB\MAKEHTMQ.SAS - Generate HTML and XLS files for TRICARE Beneficiary Reports - Run Quarterly	. G-137
G.9.A	ReportCards\CAHPS_Adult2013\STEP1Q.SAS - Create and recode variables used in Adult Beneficiary Reports - Annual.	. G-179
G.9.B	ReportCards\CAHPS_Adult2013\Convert.SAS - Convert Item Responses To Proportional Values.	. G-190
G.9.C	ReportCards\CAHPS_Adult2013\STEP2.SAS - Calculate CAHPS Adjusted Scores - Annual.	. G-191
G.9.D	ReportCards\CAHPS_Adult2013\REGRSREG.INC - Include file1 in step2.sas.	. G-206
G.9.E	ReportCards\CAHPS_Adult2013\RISKARRY.INC - Include file2 in step2.sas	. G-207
G.9.F	ReportCards\CAHPS_Adult2013\RISKMEAN.INC - Include file3 in step2.sas	. G-208
G.9.G	ReportCards\CAHPS_Adult2013\REGARRAY.INC - Include file4 in step2.sas.	. G-209
G.9.H	ReportCards\CAHPS_Adult2013\RISKVARS.INC - Include file5 in step2.sas	. G-210
G.9.I	ReportCards\CAHPS_Adult2013\MEANFILE.INC - Include file6 in step2.sas	. G-211
G.9.J	ReportCards\CAHPS_Adult2013\COMPOSIT.SAS - Calculate CAHPS Composite Scores - Annual	. G-212
G.9.K	ReportCards\CAHPS_Adult2013\FILES.INC - Include file in composit.sas	. G-216
G.10.A	LOADWEB\LOADCAHP.SAS - Convert CAHPS Scores into WEB layout - Annual	. G-217
G.10.B	LOADWEB\LOADCAHQ.INC - Format definitions for converting the Scores Database into the WEB layout - Annual	. G-223
G.11.A	Benchmark\BENCHA03.SAS - Calculate CAHPS Benchmark data for HCSDB - Annual	. G-229
G.11.B	Benchmark\BENCHA04.SAS - Convert the Benchmark Scores Database into the WEB layout - Annual.	. G-235

09/27/13 x

	G.12.A	ReportCards\MPR_Adult2013\PRVCOMP.SAS - Calculate Preventive Care Composite Scores - Annual	. G-240
	G.12.B	ReportCards\MPR_Adult2013\smoking_BMI.sas - Calculate Healthy Behavior Composite Scores - Annual.	. G-257
	G.12.C	ReportCards\MPR_Adult2013\LOADMPR.SAS - Convert the MPR Scores Database into the WEB layout - Annual	. G-272
	G.13	ReportCards\MPR_Adult2013\TRENDMPR.SAS - Calculate Trend and Perform Significance tests on MPR Scores - Annual	. G-277
	G.14.A	LOADWEB\FAKE.SAS - Generate the WEB layout/template file - Annual	. G-280
	G.14.B	LOADWEB\MERGFINL.SAS - Merge the final CAHPS and MPR Scores Databases into the WEB layout - Annual.	. G-287
	G.15	LOADWEB\TREND_A.SAS - Calculate Trends for CAHPS scores - Annual	. G-290
	G.16	LOADWEB\MAKEHTMA.SAS - Generate HTML and XLS files for TRICARE Beneficiary Reports - Annual	. G-294
Н	SAS Cod	le for 2013 TRICARE Consumer Watch – Quarters I-III and Combined Annual	H-1
	H.1.A	ConsumerWatch\CONSUMERWATCH-CMACRO.INC - Produce numbers for annual Consumer Watch reports.	H-3
	H.1.B	ConsumerWatch\CONSUMERWATCH-C.SAS - Run annual MTF TRICARE Consumer Watch reports	H-22
	H.2.A	ConsumerWatch\LISTOFMTF-NORTH.SAS - Produce the list of MTF to run automated consumer watch report in Word-North.	H-24
	H.2.B	ConsumerWatch\LISTOFMTF-OVERSEAS.SAS - Produce the list of MTF to run automated consumer watch report in Word-Overseas.	H-25
	H.2.C	ConsumerWatch\LISTOFMTF-SOUTH.SAS - Produce the list of MTF to run automated consumer watch report in Word-South	H-26
	H.2.D	ConsumerWatch\LISTOFMTF-WEST.SAS - Produce the list of MTF to run automated consumer watch report in Word-West	H-27
	H.3.A	ConsumerWatch\CONSUMERWATCH-CMACRO-WORD.INC - Produce numbers for annual Consumer Watch reports.	H-28
	H.3.B	ConsumerWatch\CONSUMERWATCH-WORD-CNORTH.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-North	H-34
	H.3.C	ConsumerWatch\CONSUMERWATCH-WORD-COVERSEAS.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-Overseas	H-36
	H.3.D	ConsumerWatch\CONSUMERWATCH-WORD-CSOUTH.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-South	H-37
	H.3.E	ConsumerWatch\CONSUMERWATCH-WORD-CWEST.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-West	H-39
	H.4.A	Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH.SAS - Run CONUS TRICARE Consumer Watch reports - Run Quarterly	H-41
	H.4.B	Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH_ MACRO.INC - Produce numbers for quarterly Consumer Watch reports	H-43
	H.5.A	Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH_ WORD.SAS - Run the automation of the MS Word Consumer Watch report production	H-64

09/27/13 xi

I

H.5.B	Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH_ MACRO_WORD.INC - Automate the MS Word Consumer Watch report production	H-65
SAS Co Care Be	ode for Statistical and Web Specifications for the 2013 TRICARE Purchased eneficiary Reports - Quarters I-III	I-1
I.1.A	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ STEP1Q.SAS - Create and recode variables used in Adult Purchased Care Beneficiary Reports - Run Quarterly.	I-3
I.1.B	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ Convert.SAS - Convert Item Responses To Proportional Values	I-13
I.1.C	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ STEP2Q.SAS - Calculate CAHPS Adjusted Scores - Run Quarterly	. I-14
l.1.D	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ REGRSREG.INC - Include file1 in step2q.sas	. I-25
l.1.E	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ RISKARRY.INC - Include file2 in step2q.sas	. I-26
l.1.F	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ RISKMEAN.INC - Include file3 in step2q.sas	. I-27
l.1.G	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ REGARRAY.INC - Include file4 in step2q.sas	. I-28
.1.H	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ RISKVARS.INC - Include file5 in step2q.sas	. I-29
.1.I	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ MEANFILE.INC - Include file6 in step2q.sas	. I-30
.1.J	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\ COMPOSIT.SAS - Calculate CAHPS Composite Scores - Run Quarterly	. I-31
.1.K	Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\FILES.INC - Include file in composit.sas	. I-36
.2.A	Q3FY2013\PROGRAMS\PurchasedLOADWEB\CAHPS_AdultQ3FY2013\LOADCAHQ.SAS - Convert CAHPS Scores into WEB layout - Run Quarterly	. I-37
l.2.B	Q3FY2013\PROGRAMS\PurchasedLOADWEB\LOADCAHQ.INC - Format definitions for converting the Scores Database into the WEB layout - Run Quarterly	. I-43
.3.A	Q1FY2013\PROGRAMS\BENCHMARK\BENCHA01.SAS - Extract Adult CAHPS Questions from NCBD - Run Quarterly	. I-49
.3.B	Q1FY2013\PROGRAMS\BENCHMARK\BENCHA02.SAS - Recode Adult CAHPS Questions from NCBD to be consistent with the HCSDB - Run Quarterly	. I-52
I.3.C	Q3FY2013\PROGRAMS\PurchasedBENCHMARK\BENCHA03.SAS - Calculate CAHPS Benchmark data for HCSDB - Run Quarterly	
I.3.D	Q3FY2013\PROGRAMS\PurchasedBENCHMARK\BENCHA04.SAS - Convert the Benchmark Scores Database into the WEB layout - Run Quarterly	
I.4.A	Q3FY2013\PROGRAMS\PurchasedReportCards\MPR_AdultQ3FY2013\ PRVCOMPQ.sas - Calculate Preventive Care Composite Scores - Run Quarterly	

09/27/13 xii

	I.4.B	Q3FY2013\PROGRAMS\PurchasedReportCards\MPR_AdultQ3FY2013\ smoking_BMI.sas - Calculates Healthy Behavior Composite Scores - Run Quarterly	I-82
	1.4.C	Q3FY2013\PROGRAMS\PurchasedReportCards\MPR_AdultQ3FY2013\ Loadmprq.sas - Convert the MPR Scores Database into the WEB layout - Run Quarterly.	I-96
	I.5.A	Q3FY2013\PROGRAMS\PurchasedLOADWEB\FAKEQ.SAS - Generate the WEB layout/template file - Run Quarterly	I-100
	I.5.B	Q3FY2013\PROGRAMS\PurchasedLOADWEB\MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases into the WEB layout - Run Quarterly	I-108
	I.6	Q3FY2013\PROGRAMS\PurchasedLOADWEB\CONUS_Q.SAS - Generate CAHPS CONUS scores and perform significance tests - Run Quarterly	I-113
J		de For 2013 TRICARE Purchased Care Consumer Watch - Quarters I-III and ed Annual	J-1
	J.1.A	Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_ PurchasedCare.sas - Run Purchased Care TRICARE Consumer Watch reports - Run Quarterly	J-3
	J.1.B	Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_ PurchasedCare_macro.inc - produce numbers for Purchased Care TRICARE Consumer Watch reports	J-5
	J.2.A	Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_ PurchasedCare_word.sas - Run program that generates MS Word Purchased Care TRICARE Consumer Watch reports - Run Quarterly	J-24
	J.2.B	Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_ Purchased Care_macro_word.inc - Generate MS Word quarterly Purchased Care TRICARE Consumer Watch reports	J-25

09/27/13 xiii

2013 HEALTH CARE SURVEY OF DOD BENEFICIARIES
PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

09/27/13 xiv

Chapter

Introduction

The 2013 Adult Health Care Survey of Department of Defense Beneficiaries (HCSDB) is the primary tool with which the TRICARE Management Activity (TMA) of the Assistant Secretary of Defense (Health Affairs) monitors the opinions and experiences of military health system (MHS) beneficiaries. The HCSDB was conducted annually from 1995 to 2000; since that time the surgery has been fielded guarterly. Specifically, the HCSDB is designed to answer the following guestions:

- How satisfied are DoD beneficiaries with their health care and their health plan?
- How does overall satisfaction with military treatment facilities (MTFs) compare with satisfaction with civilian treatment facilities (CTFs)?
- Does access to military and civilian facilities meet TRICARE standards?
- Is beneficiaries' use of preventive health care services in line with national goals, such as those outlined in Healthy People 2020?
- Has beneficiaries' use of MHS services changed over time?
- What aspects of MHS care contribute most to beneficiary satisfaction with their health care experiences? With which aspects are beneficiaries least satisfied?
- What are the demographic characteristics of MHS beneficiaries?

The HCSDB is a quarterly mail and email survey of a representative sample of MHS beneficiaries. It is sponsored by the TRICARE Management Activity in the Office of the Assistant Secretary of Defense (Health Affairs) [OASD(HA)] under authority of the National Defense Authorization Act for Fiscal Year 1993 (P.L. 102-484). Altarum Institute prepares the sampling frame, which consists of selected variables for each MHS beneficiary in the Defense Enrollment Eligibility Reporting System (DEERS) database on a specified reference date. DEERS includes everyone who is eligible for a MHS benefit (i.e., everyone in the Uniformed Services—Army, Air Force, Navy, Marine Corps, Coast Guard, the Commissioned Corps of the Public Health Service, National Oceanic and Atmospheric Administration, Guard/Reserve personnel who are activated for more than 30 days – and other special categories of people who qualify for benefits). DEERS includes those on active duty, those retired from military careers, immediate family members of people in the previous two categories, and surviving family members of people in these categories.

Each quarter, Mathematica Policy Research (Mathematica, Washington, D.C.) prepares a sample of 51,000 adult beneficiaries. Ipsos fields the survey each quarter. Mathematica analyzes the survey data, reports on the results and prepares a quarterly public use file and a Codebook and Users' Guide to describe the quarterly dataset. Each year, Mathematica prepares an annual public use dataset, a technical manual and the "Health Care Survey of DoD Beneficiaries: Annual Report".

This manual is designed to be used as a reference by analysts in OASD (HA) as they interpret the survey findings and prepare briefings. This manual provides detailed documentation on the following: naming conventions for variables, editing procedures, selection of records, computation of response rates, recoding of variables, computation of weights, variance estimation, and construction of tables and charts for the reports. This manual also enables an analyst to follow, and

replicate if desired, the processing of the raw survey data through each step in the production of the final database.

A. OVERVIEW OF THE HCSDB

1. Sample Design

The 2013 adult sample design is a stratified random sample with 51,000 adult beneficiaries selected each quarter. Stratification is based on three variables: analytical group, geographic area, and enrollment/beneficiary type. The *analytical group* stratification is determined in cooperation with TRICARE Management Activity (TMA) staff, and is important to data users and policymakers. The criteria for the analytical group stratification is the following: (1) beneficiaries younger than 65, enrolled with a military primary care manager (PCM), or active duty beneficiaries; (2) beneficiaries younger than 65, who use Managed Care Support Contractors; (3) beneficiaries younger than 65, who use TRICARE Standard/Extra; (4) beneficiaries enrolled in TRICARE Reserve Select; (5) beneficiaries age 65 or older.

The geographic area stratification includes military treatment facilities (MTFs) in which TMA is interested, TNEX regions for those enrolled in other MTFs, and TNEX regions for all other beneficiaries.

The *enrollment/beneficiary* type includes (1) active duty; (2) active duty family members enrolled in Prime with a civilian PCM; (3) active duty family members enrolled in Prime with a military PCM; (4) active duty family members not enrolled in Prime; (5) retirees and their family members younger than 65 enrolled in Prime with a civilian PCM; (6) retirees and their family members younger than 65 enrolled in Prime with a military PCM; (7) retirees and their family members younger than 65 not enrolled in Prime; (8) retirees and their family members age 65 and older; and (9) beneficiaries enrolled in TRICARE Reserve Select.

The sample selection process involves five steps: (1) construction of the sampling frame and definition of sampling strata; (2) allocation of the sample to strata to satisfy the study's precision goals; (3) selection of the survey sample using a permanent random number sample selection algorithm; (4) creation of the sampling weights, which reflect the probability of selection; and (5) verification of results to ensure that sampling was implemented as specified. Please see Mathematica Policy Research, Inc (2013) for details on sample design.

2. 2013 Adult HCSDB

The HCSDB questionnaire was converted from an annual to a quarterly survey in 2000, and is fielded each quarter to a representative sample of MHS beneficiaries. Beginning with 2006, reporting and documentation of the HCSDB is performed on a fiscal year basis. In previous years, reporting and documentation were based on calendar years. Thus this document, the "2013 Health Survey of DoD Beneficiaries: Adult Technical Manual", describes Quarters I-III of fiscal year 2013. Throughout this document, Quarter I, 2013 refers to Quarter I of fiscal year 2013. In FY 2013, surveys were fielded in three quarters instead of four, describing a period from October 2011 to March 2013. The survey for quarter four of FY 2013 was canceled as a result of sequestration. The adult questionnaires for Quarters I-III are reproduced in Appendix A. The 2013 survey consists of an unchanging core questionnaire with different quarterly supplements.

The core adult questionnaire includes the following topics:

- Use of health care
- Use of preventive health care

- Type of health plan covering the beneficiary
- Satisfaction with health plan
- Satisfaction with health care
- Access to health care
- Demographic characteristics

Beginning in 2002, the survey naming convention was changed. Prior to 2000, the year in the survey's name reflected the year that respondents were asked to think about when answering the questions. For example, although the 2000 HCSDB was fielded in 2001, it asked beneficiaries to think about the prior 12 months (mostly 2000) as the reference period for their answer. Under the new naming convention, the survey title refers to the year the questionnaires are fielded, so last year's survey was the 2012 HCSDB and this year's survey is the 2013 HSCDB. Because of the name change, there is no "2001" survey, even though the questionnaire was administered continuously in each quarter of 2001.

3. Survey Response - Quarters I-III

In each of the three quarters in 2013 in which the survey was fielded, Ipsos sent surveys to a random sample of 51,000 adult MHS beneficiaries. By the end of the fielding period in Quarter I, Ipsos received completed surveys from 18.5 percent of the sample. In Quarter II, 16.0 percent of the sample members returned completed surveys while in Quarter III, 16.2 percent of the sample members returned completed surveys. Information pertaining to how Mathematica developed these response rates is presented in Chapter 3.

It should be noted that the above cited response rates do not reflect late arriving responses from the surveys fielded in the first three quarters. The response rates are based on the number of completed surveys returned to the survey vendor at the end of the fielding period. The annual combined dataset, however, includes the surveys returned after the end of the fielding period for Quarters I and II. Therefore, the revised annual response rates were 19.4 percent for Quarter I, 17.1 percent for Quarter II, and 17.6 percent for the combined annual dataset.

4. Database Development

Mathematica edits the data, selects records for inclusion in the final database, and constructs variables to be used in reports. To ensure that the survey data is representative of the DEERS population, Mathematica develops weights to take account of the initial sampling, the sampled individuals who chose not to respond to the survey, and post-stratification if the beneficiary's key information is updated.

5. Reports

Mathematica analyzes the data and produces several reports explaining the findings on topics such as satisfaction, access to care, health care use, and use of preventive services. These reports will be available on the TRICARE website at http://www.TRICARE.USD.mil:

- 2013 TRICARE Beneficiary Reports
- 2013 TRICARE Consumer Watch
- Health Care Survey of DoD Beneficiaries: Annual Report

B. ORGANIZATION OF THIS MANUAL

Chapter 2 explains how the database was developed. It covers naming conventions, editing procedures, record selection criteria, descriptions of all variable types, definitions of each constructed variable, and weighting procedures. Chapter 3 describes how the database was analyzed. This includes rules for developing response rates, the development of table and chart specifications for the Health Care Survey of DoD Beneficiaries (The HCSDB Annual Report, TRICARE Beneficiary Reports and TRICARE Consumer Watch), an explanation of the dependent variables and independent variables, and the methodology for estimating the variance of estimates. The manual concludes with a series of technical appendices:

- Appendix A: Annotated questionnaires Quarters I-III survey questionnaires annotated with database variable names
- Appendix B: Plan for Data Quality Coding Scheme Quarters I-III
- Appendix C: A table mapping MTFs to the catchment area and DMIS ID
- Appendix D: Response rate tables for selected domains Quarters I-III and Combined Annual
- Appendix E: Technical Description of the 2013 TRICARE Beneficiary Reports
- Appendix F: SAS Code for File Development Quarters I-III
- Appendix G: SAS Code for Statistical and Web Specifications for the 2013 TRICARE Beneficiary Reports - Quarters I-III
- Appendix H: SAS Code for 2013 TRICARE Consumer Watch Quarters I-III and Combined Annual
- Appendix I: SAS Code for Statistical and Web Specifications for the 2013 TRICARE Purchased Care Beneficiary Reports - Quarters I-III
- Appendix J: SAS Code for 2013 TRICARE Purchased Care Consumer Watch Quarters I-III and Combined Annual

Chapter 2

Database

This chapter explains the process of developing the raw survey data into a final database free of inconsistencies and ready for analysis. We discuss the design of the database; cleaning, editing, and implementing the Coding Scheme; record selection; and constructing variables.

A. DATABASE DESIGN

The 2013 Adult HCSDB consists of variables from various sources. When Ipsos delivers the file to Mathematica after fielding the sample, the following types of variables are present:

- DEERS information on beneficiary group, social security number (SSN), sex, age, etc.
- Sampling variables used to place beneficiaries in appropriate strata
- Core and supplemental questionnaire responses
- Ipsos information from fielding the sample, such as scan date and flags developed during the fielding to assist us in determining eligibility

Mathematica removes all identifying information such as SSN to protect the confidentiality of the respondents. Mathematica then adds the following types of variables to the database:

- Updated DEERS variables from the time of data collection to be used for post-stratification
- Coding Scheme flags
- Constructed variables for analysis
- Weights

In addition, Mathematica updates and cleans the questionnaire responses using the Coding Scheme tables found in Appendix B. Each quarter, the final public-use database will contain only the recoded responses; this will help users to avoid using an uncleaned response for analysis. We structured the final database so that all variables from a particular source are grouped by position. Table 2.1 lists all variables in the Quarters I-III, 2013 database by source. For specific information on variable location within the database, refer to the "2013 Adult Health Care Survey of DoD Beneficiaries: Adult Codebook and User's Guide."

1. Data Sources

a. DEERS

Altarum provided the sampling frame to Mathematica prior to the selection of the sample. DEERS information such as sex, date of birth, and service are retained in the database; this data is current as of the time of sample selection.

b. Sampling Variables

Mathematica developed variables during the sample selection procedure that were instrumental in placing beneficiaries in appropriate strata. Many of the variables are retained on the database.

c. Questionnaire Responses

These variables represent the cleaned values for all responses to the questionnaire. The original values scanned in by Ipsos are cleaned and recoded as necessary to ensure that responses are consistent throughout the questionnaire. The Coding Scheme tables found in Appendix B are the basis for insuring data quality.

d. Survey Fielding Variables

In the process of fielding the survey, Ipsos created a number of variables that we retain in the database. Certain of these variables, information that came in by phone, for example, assist us in determining eligibility.

e. Coding Scheme Flags

Each table of the Coding Scheme (see Appendix B) has a flag associated with it that indicates the pattern of original responses and any recodes that were done. For example, the table for Note 5 has a flag N5.

f. Constructed Variables

Mathematica constructed additional variables that were used in the TRICARE Beneficiary Reports, TRICARE Consumer Watch, and the "Health Care Survey of DoD Beneficiaries: Annual Report." Often these variables were regroupings of questionnaire responses or the creation of a binary variable to indicate whether or not a TRICARE standard was met. Complete information on each constructed variable is found in section 2.D.

g. Weights

Mathematica developed weights for each record in the final database. Weights are required for the following reasons:

- To compensate for variable probabilities of selection
- To adjust for differential response rates
- To improve the precision of survey-based estimates through post-stratification

Weighting procedures are discussed in section 2.E.

TABLE 2.1

VARIABLES IN THE 2013 ADULT HCSDB DATA FILE - QUARTERS I-III					
SAMPLE VARIABLES					
MPRID	- Unique MPR identifier				
SVCSMPL	- Branch of service sampling variable				
SEXSMPL	- Sex sampling variable				
STRATUM	- Sampling stratum				
ENBGSMPL	- Enrollment by beneficiary category				
MPCSMPL	- Military personnel category				
NHFF	- Military personnel category - Stratum sample size				
QUARTER	- Survey quarter				
D HEALTH	- Health service region				
TNEXREG	- неаки service region - TRICARE next generation of contracts region grouping				
SERVAFF	- Service affiliation				
OZITO, II I	DEERS VARIABLES				
RACEETHN	- Race/Ethnic code				
PNSEXCD	- Person gender				
RDAGEQY	- Age at time of sample preparation-Capped (18 and below, 86 and above)				
RFLDAGE	- Age at start of fielding period-Capped (18 and below, 86 and above)				
PCM	- Primary manager code (civilian or military)				
ACV	- Alternate care value				
DBENCAT	- Beneficiary category				
DSPONSVC	- Derived sponsor branch of service				
PATCAT	- Aggregated beneficiary category				
PNTYPCD	- Person type code				
THE OB	QUESTIONNAIRE RESPONSES				
H13001	- Are you the person listed on the cover letter				
H13002A	- Health plan(s) covered: TRICARE Prime				
H13002C	- Health plan(s) covered: TRICARE Ext/Stnd				
H13002F	- Health plan(s) covered: Medicare				
H13002G	- Health plan(s) covered: Federal Employees Health Benefit Program (FEHBP)				
H13002H	- Health plan(s) covered: Medicaid				
H13002I	- Health plan(s) covered: civilian HMO				
H13002J	- Health plan(s) covered: other civilian				
H13002K	- Health plan(s) covered: Uniformed Services Family Health Plan (USFHP)				
H13002L	- Health plan(s) covered: not sure				
H13002M	- Health plan(s) covered: Veterans				
H13002N	- Health plan(s) covered: TRICARE Plus				
H13002O	- Health plan(s) covered: TRICARE For Life				
H13002P	- Health plan(s) covered: TRICARE Supplemental Insurance				
H13002Q	- Health plan(s) covered: TRICARE Reserve Select				
H13002R	- Health plan(s) covered: TRICARE Reserve Select - Health plan(s) covered: other Non-US government health insurance				
H13002S	- Health plan(s) covered: TRICARE Retired Reserve				
H13002T	- Health plan(s) covered: TRICARE Young Adult				
H13002U	- Health plan(s) covered: TRICARE Found Adult - Health plan(s) covered: Continued Health Care Benefit Program (CHCBP)				
H13003	- Health plan(s) covered: Continued Health Care Benefit Program (CHCBP) - Which health plan did you use most in the past 12 months?				
H13004	- Months or years in a row with health plan				
H13005	- In last year: facility used most for health care				
H13006	- In last year: have illness/injury/condition that needed care right away				
H13007	- In last year: how often got care as soon as you believed you need it				
H13008	- In last year: wait between trying to get care and actually seeing a provider for an				
1110000	illness or injury				
H13009	- In last year: made appointments for non-urgent health care				
H13010	- In last year: how often got appointments for non-urgent health care as soon as you				
	wanted				

H13011	- In last year: days between making an appointment for regular or routine care and
142042	actually seeing a provider
H13012	- In last year: times went to an emergency room for own care
H13013	- In last year: times went to a doctors office or clinic for yourself (not counting times
1140044	went to an emergency room)
H13014	- In last year: how often talk to doctor or other health care provider about illness
H13015	prevention
пізиіз	 In last year: doctor or other health care provider talked about more than 1 choice for treatment
H13016	- In last year: doctor talked about pros/cons of each treatment/health care choice
H13017	- In last year: doctor/health care provider asked which treatment option you thought
1113017	was best for you when there was more than one choice of treatment
LI42040	
H13018	- Rating of all health care in last year
H13019	- Have one person you think of as your personal doctor
H13020	- In last year: number of times visited personal doctor for care for self
H13021	- In last year: how often personal doctor listened carefully to you
H13022	- In last year: how often personal doctor explained things in a way that was easy to
	understand
H13023	- In last year: how often your personal doctor showed respect for what you have to say
H13024	- In last year: how often your personal doctor spent enough time with you
H13025	- In last year: got care from doctor or other health provider other than personal doctor
H13026	- In last year: how often personal doctor seemed informed and up-to-date about care
	received from other doctors
H13027	- Rating of your personal doctor
H13028	- In last year: tried to make appointment to see a specialist
H13029	- In last year: how often it was easy to get appointments with specialists
H13030	- In last year: how many specialists seen
H13031	- Rating of specialist seen most often in last year
H13032	- In last year: tried to get care, tests, or treatment through health plan
H13033	- In last year: how often easy to get care, tests, or treatment you thought you needed
H13034	through health plan - In last year: looked for information in written material or on the Internet about how
1113034	health plan works
H13035	- In last year: how often written material/Internet provide information you needed about
	how your plan works
H13036	- In last year: looked for information from health plan on cost of health care service or
	equipment
H13037	- In last year: how often able to find out from health plan cost of health care service or
	equipment
H13038	- In last year: looked for information from health plan on cost of prescription
	medications
H13039	 In last year: how often able to find out cost of prescription medications
H13040	- In last year: tried to get information or help from health plan's customer service
H13041	- In last year: how often did customer service give needed information or help
H13042	- In last year: how often did customer service treat with courtesy and respect
H13043	- In last year: health plan gave forms to fill out
H13044	- In last year: how often forms from health plan were easy to fill out
H13045	- In last year: sent in any claims to your health plan
H13046	- In last year: how often health plan handled claims quickly
H13047	- In last year: how often health plan handled claims correctly
H13048	- Rating of all experience with health plan
H13049	- Blood pressure: when last reading
H13050	- Blood pressure: know if blood pressure is too high or not
H13051	- When did you last have a flu shot
H13052	- Smoked at least 100 cigarettes in life
H13053	- Smoke or use tobacco everyday, some days, or not at all
H13054	- Last year: how often advised by doctor to quit smoking or use tobacco

H13055	- Last year: how often medication was recommended or discussed by doctor to assist
	with quitting smoking or using tobacco
H13056	- Last year: how often doctor recommended or discussed methods and strategies to
	assist quitting smoking or using tobacco
H13057A	- Do you smoke or use: cigarettes
H13057B	- Do you smoke or use: dip, chewing tobacco, snuff, or snus
H13057C	- Do you smoke or use: cigars
H13057D	- Do you smoke or use: pipes, bidis, or kreteks
H13058	- Are you male or female
H13059B	- Female: last have a Pap smear test
H13060	- Female: are you under age 40
H13061	- Female: last time breasts checked by mammography
H13062	- Female: been pregnant in last year or pregnant now
H13063	- Female: in what trimester is your pregnancy
H13064	- Female: trimester first received prenatal care
H13065	- In general how would you rate your overall health
H13066	- Limited in any way in any activities because of any impairment or health problem
H13067	- In last year: seen doctor or other health provider 3 or more times for same condition
L112060	or problem - Condition lasted for at least 3 months
H13068	
H13069 H13070	 Need to take medicine prescribed by a doctor Medicine to treat condition that has lasted for at least 3 months
H13071F	- Feet portion of height without shoes
H13071I	- Inches portion of height without shoes
H13071	- Weight without shoes in pounds
H13073	- Are you Spanish, Hispanic, or Latino
H13073A	- No, not Spanish, Hispanic, or Latino
H13073B	- Yes, Mexican, Mexican American, Chicano
H13073C	- Yes, Puerto Rican
H13073D	- Yes, Cuban
H13073E	- Yes, other Spanish, Hispanic, or Latino
H13074	- Currently covered by Medicare
H13075	- Currently covered by Medicare part A
H13076	- Currently covered by Medicare part B
H13077	- Enrolled in a Medicare Advantage plan
H13078	- Currently covered Medicare supplemental
H13079	- Enrolled in Medicare Part D
SREDA	- Highest grade completed
SRRACEA	- Race: White
SRRACEB	- Race: Black or African American
SRRACEC	- Race: American Indian or Alaska native
SRRACED	- Race: Asian
SRRACEE SRAGE	- Race: Native Hawaiian/other Pacific Islander What is your ago pow?
S13009	What is your age now?Had the same personal doctor or nurse before joining this health plan
S13010	- Since joined health plan, how much of a problem, if any, was it to get a personal
010010	doctor or nurse you are happy with?
S13011	- Able to see my provider when needed
S13014	- Satisfaction with health care received during last visit
S13B01	- Self rating of overall mental/emotional health
S13B02	- Last year: needed treatment/counseling for personal/family problem
S13B03	- Last year: problem getting needed treatment/counseling
S13B04	- Last year: rating of treatment/counseling received
S13B23	- Past month: had nightmares or unwanted thoughts about an experience that was
	frightening, horrible, or upsetting
S13B24	- Past month: tried hard not to think about or went out of the way to avoid situations
	that remind you of experience that was frightening, horrible, or upsetting

S13B25	- Past month: constantly on guard, watchful, or easily startled after experience that was
	frightening, horrible, or upsetting
S13B26	- Past month: felt numb or detached from others, activities, or surroundings after
0404404	experience that was frightening, horrible, or upsetting
S13AA01	- Prior health plan
S13AA02A	- Reason switched: I lost my job
S13AA02B	- Reason switched: my spouse/parent lost his/her job
S13AA02C	- Reason switched: I changed jobs
S13AA02D	- Reason switched: my spouse/parent changed jobs
S13AA02E	- Reason switched: I retired from a job that provided coverage
S13AA02F	- Reason switched: spouse/parent retired from job that provided coverage
S13AA02G	- Reason switched: moved to a new area
S13AA02H	- Reason switched: in the Select Reserves and became active
S13AA02I	- Reason switched: spouse/parent activated in Select Reserves
S13AA02J	- Reason switched: I am a National Guard or Reserve Member deactivated
S13AA02K	 Reason switched: spouse/parent deactivated National Guard or Reserve Member Reason switched: employer changed plans
S13AA02L S13AA02V	, , , , , , , , , , , , , , , , , , , ,
S13AA02M	 Reason switched: employer stopped providing health coverage Reason switched: my dr/other health care provider left the plan
S13AA02N	- Reason switched: I did not like the referral requirements
S13AA02N S13AA02O	- Reason switched: rould not get appointments as soon as I wanted
S13AA02D S13AA02P	- Reason switched: could not get appointments as soon as I wanted - Reason switched: dissatisfied with the plan's customer service
S13AA02P	- Reason switched: preferred new plan
S13AA02Q S13AA02R	- Reason switched: difficult to park at clinic/doctor's office
S13AA02K S13AA02S	- Reason switched: travel too far to get needed care
S13AA025 S13AA02T	- Reason switched: married, divorced, or widowed
S13AA02U	- Reason switched: became eligible for Medicare
S13AA02W	- Reason switched: other
S13AA03	- Main reason switched
S13AA04A	- Problem w/ prior plan: expensive bills for services not covered
S13AA04B	- Problem w/ prior plan: doctor charged more than insurance would pay
S13AA04C	- Problem w/ prior plan: doctor's office would not accept my insurance
S13AA04D	- Problem w/ prior plan: insurance did not pay bill promptly or denied payment
S13AA04E	- Problem w/ prior plan: plan did not include specialist I needed
S13AA05	- Changed doctors when switched plan
S13015	- When did you last have cholesterol screening
S13N11	- Prefer civilian or military facilities for hith care
S13N12A	- Reason preferred: greater choice of doctors
S13N12B	- Reason preferred: personal doctor at that facility type
S13N12C	- Reason preferred: specialist at that facility type
S13N12D	- Reason preferred: no military facilities near me
S13N12E	- Reason preferred: travel too far to civilian facility
S13N12F	- Reason preferred: travel too far to military facility
S13N12G	- Reason preferred: easier to get care from a military facility
S13N12H	- Reason preferred: told to get care at military facility
S13N12I	- Reason preferred: good value for out-of-pocket costs
S13N12J	- Reason preferred: out-of-pocket costs are less
S13N12K	- Reason preferred: have not needed health care
S13N12L	- Reason preferred: another reason
S13N12M	- Reason preferred: no preference
S13J01	- Can obtain civilian health insurance for self through some civilian group
S13J02A	- Obtain civilian coverage: my current employer
S13J02B	- Obtain civilian coverage: COBRA from previous employer
S13J02C	- Obtain civilian coverage: retirement coverage from previous employer
S13J02D	- Obtain civilian coverage: family member's current employer
S13J02E	- Obtain civilian coverage: COBRA from family member's previous employer

S13J02F	- Obtain civilian coverage: retirement coverage from family member's previous
C42 102C	employer
S13J02G	- Obtain civilian coverage: another organization
S13J02H	- Obtain civilian coverage: government program
S13J02I	- Obtain civilian coverage: don't know
S13J03	- Are you or you and others in household covered by a civilian policy
S13J04	- I or family member pay all or part of insurance premium for civilian coverage
S13J05	- How much (in dollars) per month do you or family member pay for this coverage
S13J06	- Used civilian coverage for any of your health care in the past 12 months
S13J07A	- Not used civilian coverage: not available
S13J07B	- Not used civilian coverage: had better choice of doctors with TRICARE
S13J07C	- Not used civilian coverage: don't want to pay premium for civilian coverage
S13J07D	- Not used civilian coverage: better customer service with TRICARE
S13J07E	- Not used civilian coverage: civilian benefits are poor compared to TRICARE
S13J07F	- Not used civilian coverage: personal doctor is only available through TRICARE
S13J07G	- Not used civilian coverage: want to be sure I can always use military health care
S13J07H	- Not used civilian coverage: pay less for TRICARE than I would for civilian care
S13J07I	- Not used civilian coverage: prefer to use military doctors
S13J07J	- Not used civilian coverage: prefer military hospitals
S13J07K	- Not used civilian coverage: have not needed health care
S13J07L	- Not used civilian coverage: another reason
S13J07M	- Not used civilian coverage: receive employer bonus for not taking employee coverage
S13J07N	- Not used civilian coverage: family member receives employer bonus for not taking
	employee coverage
S13J07O	- Not used civilian coverage: better quality care through TRICARE
S13J08	- Used TRICARE for any health care (except for prescription drugs) in the past 12
040 100 4	months
S13J09A	- Not used TRICARE: greater choice of doctors with my civilian plan
S13J09B	- Not used TRICARE: don't want to pay the premium for TRICARE
S13J09C	- Not used TRICARE: better customer service with civilian plans
S13J09D	- Not used TRICARE: personal doctor is not available to me through TRICARE
S13J09E	- Not used TRICARE: TRICARE benefits are poor compared to my civilian plan
S13J09F	- Not used TRICARE: easier to get care through civilian plan
S13J09G	 Not used TRICARE: pay less for civilian care than I would for TRICARE Not used TRICARE: no military facilities near me
S13J09H	- Not used TRICARE: no military racinities near me - Not used TRICARE: prefer civilian hospitals
S13J09J	- Not used TRICARE: prefer civilian nospitals - Not used TRICARE: have not needed health care
S13J09K S13J09L	- Not used TRICARE: nave not needed nealth care - Not used TRICARE: another reason
S13J10 S13J13A	- Dropped civilian coverage in past 12 months
S13J13B	Dropped civilian coverage: lost jobDropped civilian coverage: spouse or parent lost job
S13J13C	- Dropped civilian coverage: spodse of parent lost job - Dropped civilian coverage: changed jobs
S13J13D	- Dropped civilian coverage: changed jobs - Dropped civilian coverage: spouse or parent changed jobs
S13J13E	- Dropped civilian coverage: spouse of parent changed jobs - Dropped civilian coverage: retired from job
S13J13F	- Dropped civilian coverage: spouse or parent retired
S13J13G	- Dropped civilian coverage: spouse of parent retired - Dropped civilian coverage: moved to new location
S13J13H	- Dropped civilian coverage: you/spouse/parent became active reservist
S13J13I	- Dropped civilian coverage: you/spouse/parent returned to Select Reserve
S13J13J	- Dropped civilian coverage: employer changed plans
S13J13K	- Dropped civilian coverage: found less expensive plan
S13J13L	- Dropped civilian coverage: married, divorced, or widowed
S13J13M	- Dropped civilian coverage: went on Medicare
S13J13N	- Dropped civilian coverage: problems with health plan
S13J14	- Main reason dropped civilian coverage
S13AC01	- Last yr: missed appointment at the facility used most often
S13AC02A	- Missed appointment: forgot about appointment
S13AC02B	- Missed appointment: felt better
	••

04040000	Nice and are a interested falt was a				
S13AC02C	- Missed appointment: felt worse				
S13AC02D	- Missed appointment: got care somewhere else				
S13AC02E	- Missed appointment: scheduling conflict				
S13AC02F	- Missed appointment: other				
S13AC02G	- Missed appointment: other				
S13AC03	- Last yr: canceled/rescheduled appointment at the facility used most often				
S13AC04	- Last yr: how many appointments canceled/rescheduled				
S13AC05A	- Cancelled/rescheduled appointment: forgot about appointment				
S13AC05B	- Cancelled/rescheduled appointment: felt better				
S13AC05D	- Cancelled/rescheduled appointment: got care somewhere else				
S13AC05E	- Cancelled/rescheduled appointment: scheduling conflict				
S13AC05F	- Cancelled/rescheduled appointment: difficulty getting to facility				
S13AC05G	- Cancelled/rescheduled appointment: other				
S13C09	- Lst yr: did you have a health problem for which you needed special medical				
010000	equipment, such as a cane, a wheelchair, or oxygen equipment				
S13C10	- Lst yr: how much of a problem was it to get special medical equipment you needed				
313010					
040044	through your health plan				
S13C11	- Lst yr: did you need special therapy, such as physical, occupational, or speech				
0.100.10	therapy				
S13C12	- Lst yr: how much of a problem was it to get special therapy you needed through your				
	health plan				
S13C13	- Lst yr: did you need home health care or assistance				
S13C14	- Lst yr: how much of a problem was it to get home health care you needed through				
	your health plan				
S13Q01	- Have you ever had a blood stool test using a home kit				
S13Q02	- How long since last blood stool test using a home kit				
S13Q03	- Have you ever had a sigmoidoscopy or colonoscopy				
S13Q04	- How long since last sigmoidoscopy				
S13Q05	- How long since last colonoscopy				
S13Q08	- Are you under age 50				
S13Q08	- Are you under age 50 Survey Fielding Variables				
S13Q08 ONTIME	- Are you under age 50 Survey Fielding Variables - Responded within 8 weeks of mail-out				
S13Q08 ONTIME FLAG_FIN	- Are you under age 50 Survey Fielding Variables - Responded within 8 weeks of mail-out - Final disposition				
S13Q08 ONTIME FLAG_FIN DUPFLAG	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS	- Are you under age 50 Survey Fielding Variables - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS	- Are you under age 50 Survey Fielding Variables - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator				
ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J1 N1_J2	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J2 N1_J3 N1_J4	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J2 N1_J3 N1_J4	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J2 N1_J3 N1_J4 N1_J5	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_Q1	SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_Q1				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J2 N1_J3 N1_J4 N1_J5 N1_J5 N1_J6 N1_Q1 N1_AA1	Responded within 8 weeks of mail-out Final disposition Multiple response indicator Final status Number of key questions answered Web survey indicator CODING SCHEME FLAGS AND COUNTS Coding Scheme Note 1 Coding Scheme Note 1 Coding Scheme Note 1_J1 Coding Scheme Note 1_J2 Coding Scheme Note 1_J3 Coding Scheme Note 1_J4 Coding Scheme Note 1_J4 Coding Scheme Note 1_J5 Coding Scheme Note 1_J6 Coding Scheme Note 1_J6 Coding Scheme Note 1_AA1				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1	- Are you under age 50 Survey Fielding Variables - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_Q1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA1				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC2	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AC1 - Coding Scheme Note 1_AC2				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC1 N1_AC2 N1_AC3	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_G1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC3				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC2 N1_AC3 N2	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_G1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC3 - Coding Scheme Note 1_AC3 - Coding Scheme Note 1_AC3				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AC1 N1_AC1 N1_AC2 N1_AC2 N1_AC3 N2 N3	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA2 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC3 - Coding Scheme Note 2 - Coding Scheme Note 3				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC2 N1_AC3 N2 N3 N4	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_G1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC3 - Coding Scheme Note 1_AC3 - Coding Scheme Note 2 - Coding Scheme Note 3 - Coding Scheme Note 3				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC2 N1_AC3 N2 N3 N4 N5	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_A6 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AC1 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC3 - Coding Scheme Note 3 - Coding Scheme Note 3 - Coding Scheme Note 4 - Coding Scheme Note 5				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC1 N1_AC2 N1_AC3 N2 N3 N4 N5 N5A1	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC2 - Coding Scheme Note 3 - Coding Scheme Note 3 - Coding Scheme Note 3 - Coding Scheme Note 5 - Coding Scheme Note 5				
S13Q08 ONTIME FLAG_FIN DUPFLAG FNSTATUS KEYCOUNT WEB N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC2 N1_AC3 N2 N3 N4 N5	- Are you under age 50 SURVEY FIELDING VARIABLES - Responded within 8 weeks of mail-out - Final disposition - Multiple response indicator - Final status - Number of key questions answered - Web survey indicator CODING SCHEME FLAGS AND COUNTS - Coding Scheme Note 1 - Coding Scheme Note 1_J1 - Coding Scheme Note 1_J2 - Coding Scheme Note 1_J3 - Coding Scheme Note 1_J4 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J5 - Coding Scheme Note 1_J6 - Coding Scheme Note 1_A6 - Coding Scheme Note 1_AA1 - Coding Scheme Note 1_AC1 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC2 - Coding Scheme Note 1_AC3 - Coding Scheme Note 3 - Coding Scheme Note 3 - Coding Scheme Note 4 - Coding Scheme Note 5				

N6 ·	- Coding Scheme Note 6
N7 ·	- Coding Scheme Note 7
N8	- Coding Scheme Note 8
N8_01	- Coding Scheme Note 8_01
N9	- Coding Scheme Note 9
N10	- Coding Scheme Note 10
N10_B1	- Coding Scheme Note 10_B1
N11	- Coding Scheme Note 11
N12	- Coding Scheme Note 12
	- Coding Scheme Note 13
N14	- Coding Scheme Note 14
N15	- Coding Scheme Note 15
N16	- Coding Scheme Note 16
N17	- Coding Scheme Note 17
N17_Q0	- Coding Scheme Note 17_Q0
N17_Q1	- Coding Scheme Note 17_Q1
N17_Q2	- Coding Scheme Note 17_Q2
N18	- Coding Scheme Note 18
N19A	- Coding Scheme Note 19A
N19B	- Coding Scheme Note 19B
N20	- Coding Scheme Note 20
N21	- Coding Scheme Note 21
N22	- Coding Scheme Note 22
N23	- Coding Scheme Note 23
N24	- Coding Scheme Note 24
N25	- Coding Scheme Note 25
MISS_1	- Count of: violates skip pattern
MISS_4	- Count of: incomplete grid error
MISS_5	 Count of: scalable response of don't kn
	- Count of: not applicable - valid skip
MISS_7	- Count of: out-of-range error
MISS_9	- Count of: no response - invalid skip

now

- Total number of missing responses MISS_TOT

CONSTRUCTED VARIABLES

JSFLAG - Joint Service Flag

XENRLLMT - Enrollment in TRICARE prime XENR_PCM - Enrollment by PCM type XINS_COV - Insurance coverage - Beneficiary category **XBENCAT**

- Enrollment by PCM type - reservist XENR RSV - Insurance coverage - reservist XINS RSV

XREGION

XTNEXREG - TRICARE next generation of contracts region grouping

- XCATCH - Catchment area (reporting) XCATCH

USA - CONUS/OCONUS indicator

XOCONUS - Overseas Europe/Pacific/Latin indicator

- Out of catchment area indicator **OUTCATCH**

XSEXA - Male or female (recode) XBMI - Body mass index

XBMICAT - Body mass index category **XBNFGRP** - Constructed beneficiary group

- Service affiliation XSERVAFF

- Outpatient visits to military facility **KMILOPQY** - Outpatient visits to civilian facility **KCIVOPQY** - Beneficiary covered by civilian insurance **KCIVINS**

- Pregnant in last year received care in 1st trimester **HP_PRNTL** - Women age 40 and over: mammography in past 2 years HP_MAMOG

HP_MAM50	- Women age 50 and over: mammography in past 2 years			
HP_PAP	- All women: pap smear in last 3 years			
HP_BP	- Blood pressure check in last 2 years and know results			
HP_FLU	- Age 65 and older: flu shot in last 12 months			
HP_OBESE	- Obese or morbidly obese			
HP_SMOKE	- Advised to quit smoking in last 12 months			
HP_SMKH3	- Smoker under HEDIS definition (modified)			
HP_CESH3	- Had smoking cessation counseling - HEDIS (modified)			
POSTSTRATIFICATION VARIABLES				
POSTCELL	- Poststratification cell for new weights			
WEIGHTS				
BWT	- Basic sampling weight			
E/A/D/A/T	Final quartarly weight			

FWRWT - Final quarterly weight

CFWT - Combined Annual Final Weight

In addition to the variables listed above, the file includes replicate weights CFWT1-CFWT180.

2. **Variable Naming Conventions**

To preserve continuity with survey data from previous years, Mathematica followed the same variable naming conventions for the core questions used for the 1996, 1997, 1998, 1999, 2000, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012 and 2013 survey data. Variable naming conventions for the 2013 Adult HCSDB core and supplemental questions, shown in Table 2.2 correspond to those of previous years. The suffix "_O" will be used to distinguish the original version of the variable from the recoded version. The public use files for the adult survey will contain only recoded variables.

Variables created from most core survey questions begin with the character "H." The next two characters are the third and fourth digits of the survey year. A small number of self-reported demographic variables begin with the characters "SR."

TABLE 2.2

NAMING CONVENTIONS FOR 2013 HCSDB VARIABLES – QUARTERS I-III
(VARIABLES REPRESENTING SURVEY QUESTIONS)

(VARIABLES REPRESENTING SURVEY QUESTIONS)				
1 st Character: Survey Type	2 nd – 3 rd Characters: Survey Year	4 th – 6 th Characters: Question #	Additional Characters: Additional Information	
H= Health Beneficiaries (18 and older, Adult Questionnaire)	13	001 to 079	A to U are used to label responses associated with a multiple response question	
S = Supplemental Question		Quarter I 009-011, 014 – Supplemental questions about respondent's personal doctor and about the visits to the respondent's healthcare provider. 015 – Supplemental question about cholesterol screening. B01-B04, B23-B26 – Supplemental questions about overall mental or emotional health. N011-N12 – Supplemental questions about preferences for civilian and military healthcare facilities Quarter II 009-011, 014 – Supplemental questions about respondent's personal doctor and about the visits to the respondent's healthcare provider.		
		B01-B04, B23-B26 – Supplemental questions about overall mental or emotional health. J01-J10, J13-J14 – Supplemental questions about civilian health insurance coverage. Quarter III 009-011, 014 – Supplemental questions about respondent's personal doctor and about the visits to the respondent's healthcare provider. B01-B04, B23-B26 – Supplemental questions about overall mental or emotional health. C09-C14 – Supplemental questions about beneficiaries' chronic conditions. Q01-Q05, Q08 – Supplemental questions about colon cancer screening tests.		

1 st Character: Survey Type	2 nd – 3 rd Characters: Survey Year	4 th – 7 th Characters: Question #	Additional Characters: Additional Information
S = Supplemental Question	13	Quarter I AA01-AA05 – Supplemental questions about previous health plan and reasons for switching. Quarter II AC01-AC05 – Supplemental questions about about missed, cancelled, or rescheduled appointments.	A to W are used to label responses associated with a multiple response question

1 st Characters: Variable Group	Additional Characters: Additional Information
SR=Self-reported demographic data	Descriptive text, e.g., SREDA
N=Coding scheme notes	Number referring to Note, e.g., N2
X=Constructed independent variable	Descriptive text, e.g., XREGION
R=Constructed restricted use variables	Descriptive text, e.g., RDAGEQY (Age at time of data collection-capped by grouping those 18 and below, 86 and above)
HP=Constructed <i>Healthy People</i> 2020 variable	Descriptive text, e.g., HP_BP (had blood pressure screening in past two years and know the results)
K=Constructed dependent variables	Descriptive text, e.g., KMILOPQY (total number of outpatient visits to military facility)
FW= Quarterly weighting variables	Descriptive text, e.g., FWRWT for the overall final quarterly weight, Number referring to replicate weights, e.g., FWRWT10
CFW=Combined annual weighting variables	Descriptive text, e.g., CFWT for the final annual weight; Number referring to replicate weights, e.g., CFWT10

Each quarter, the questionnaire includes a battery of questions on specific health care topics concerning services offered to MHS beneficiaries. Supplemental questions contain the same number of alphanumeric characters as the core questions; each variable begins with an "S" to distinguish it as a supplemental question.

3. Missing Value Conventions

The 2013 conventions for missing variables are the same as the conventions in previous years. All missing value conventions used in the 2013 HCSDB are shown in Table 2.3.

TABLE 2.3

CODING OF MISSING DATA AND "NOT APPLICABLE" RESPONSES

ASCII or Raw Source Data	Edited and Cleaned SAS Data	Description
Numeric	Numeric	
-9		No response
-7	.0	Out of range error
-6	.N	Not applicable or valid skip
-5	.D	Scalable response of "Don't know" or "Not sure"
-4	.l	Incomplete grid error
-1	.C	Question should have been skipped, not answered
	.В	No survey received

B. CLEANING AND EDITING

Data cleaning and editing procedures ensure that the data are free of inconsistencies and errors. Standard edit checks include the following:

- Checks for multiple surveys returned for any one person
- Range checks for appropriate values within a single question
- Logic checks for consistent responses throughout the questionnaire

We computed frequencies and cross tabulations of values at various stages in the process to verify the accuracy of the data. Data editing and cleaning proceeded in the following way:

1. Scan Review

lpsos spot-checked the scanned results from the original survey to verify the accuracy of the scanning process and made any necessary corrections.

2. Additional Ipsos Editing and Coding

In preparing the database for Mathematica, Ipsos used variable names and response values provided by Mathematica in the annotated questionnaires (see Appendix A). Ipsos delivered to Mathematica a database in SAS format. In this database, any questions with no response were encoded with a SAS missing value code of '.'.

3. Duplicate or Multiple Surveys

At this stage, Ipsos delivered to Mathematica a file containing one record for every beneficiary in the sample, plus additional records for every duplicate survey or multiple surveys received from any beneficiary. These duplicates and multiples were eliminated during record selection, and only the most complete questionnaire in the group was retained in the final database. Record selection is discussed in Section 2.C.

4. Removal of Sensitive or Confidential Information

The file that Mathematica received from Ipsos contained sensitive information such as Social Security Number (SSN). Any confidential information was immediately removed from the file. Each beneficiary had already been given a generic ID (MPRID) substitute during sample selection, and the MPRID was retained as a means to uniquely identify each individual.

5. Initial Frequencies

Mathematica computed frequencies for all fields in the original data file. These tabulations served as a reference for the file in its original form and allowed comparison to final frequencies from previous years, helping to pinpoint problem areas that needed cleaning and editing. Mathematica examined these frequencies and cross-tabulations, using the results to adapt and modify the cleaning and editing specifications as necessary.

6. Data Cleaning and Recoding of Variables

Mathematica's plan for data quality is found in the 2013 Adult Coding Scheme for Quarters I-III. It contains detailed instructions for all editing procedures used to correct data inconsistencies and errors. The Coding Scheme tables for Quarters I-III are found in Appendix B. These tables outline in detail the approach for recoding self-reported fields, doing range checks, logic checks, and skip pattern checks to insure that responses are consistent throughout the questionnaire. The Coding Scheme tables specify all possible original responses and any recoding, also indicating if backward coding or forward coding was used. Every skip pattern is assigned a note number shown in the annotated questionnaire (Appendix A). This note number defines the flag (for example, the Note 5 flag is N5) that is set to indicate the pattern of the original responses and any recoding. Thus, if the value of N5 is 2, the reader can look at line 2 in the Note 5 table for the original and recoded response values.

The SAS programs implementing the Coding Scheme for each quarter are found in Appendix F.

a. Check Self-Reported Fields

Several survey questions seek information that can be verified with DEERS data and/or sampling variables. Nevertheless, in recoding these self-reported fields (such as sex, and TRICARE enrollment) we used the questionnaire responses unless they were missing; in which case, we used the DEERS data. For example, if the question on the sex of the beneficiary was not answered, the recoded variable for self-reported sex was not considered missing but was given the DEERS value for gender. If there was any disagreement between questionnaire responses and DEERS data, the questionnaire response generally took precedence.

In many tables and charts in the reports, the DEERS information was used for active duty status and TRICARE enrollment.

b. Skip Pattern Checks

At several points in the survey, the respondent should skip certain questions. If the response pattern is inconsistent with the skip pattern, each response in the series was checked to determine which was most accurate, given the answers to other questions. Questions that were appropriately skipped were set to the SAS missing value of '.N'. Inconsistent responses, such as answering questions that should be skipped or not answering questions that should be answered, were examined for patterns that could be resolved. Frequently, responses to subsequent questions provide the information needed to infer the response to a question that was left blank. The 2013 Adult Coding Scheme for Quarters I-III (see Appendix B) specifically addresses every skip pattern and shows the recoded values for variables within each pattern; we back coded and/or forward coded to ensure that all responses are consistent within a sequence.

c. Missing Values

Ipsos initially encoded any question with a missing response to a SAS missing value code of '.'. After verifying skip patterns, Mathematica recoded some of these responses to reflect valid skips (SAS missing value code of '.N'). The complete list of codes for types of missing values such as incomplete grids, and guestions that should not have been answered is shown in Table 2.3.

Occasionally, missing questionnaire responses can be inferred by examining other responses. For example, if a respondent fails to answer H13025 about getting care from a doctor or other health provider besides his/her personal doctor, but goes on to answer how often he/her personal doctor seemed informed and up-to-date about the care received from these doctors or providers, then we assume that the answer to H13025 should have been "yes." Using this technique, we recoded some missing questionnaire responses to legitimate responses.

d. Logic Checks

Most logic problems are due to inconsistent skip patterns, for example, when a male answers a question intended for women only. Other internal inconsistencies were resolved in the same manner as skip pattern inconsistencies — by looking at the answers to all related questions. For instance, several questions related to smoking were examined as a group to determine the most appropriate response pattern so that any inconsistent response could be reconciled to the other responses in the group.

7. Quality Assurance

Mathematica created an edit flag for each Coding Scheme table that indicates what, if any, edits were made in the cleaning and editing process. This logic was also used in previous years; variables such as N5 (see Appendix B) indicate exactly what pattern of the Coding Scheme was followed for a particular set of responses. These edit flags have a unique value for each set of original and recoded values, allowing us to match original values and recoded values for any particular sequence.

In order to validate the editing and cleaning process, Mathematica prepared cross-tabulations between the original variables and the recoded variables with the corresponding edit flag. This revealed any discrepancies that needed to be addressed. In addition, we compared unweighted frequencies of each variable with the frequencies from the original file to verify that each variable was accurately recoded. Mathematica reviewed these tabulations for each variable in the survey. If necessary, the earlier edit procedures were modified and the Coding Scheme program rerun. The resulting file was clean and ready for analysis.

C. RECORD SELECTION

To select final records, we first defined a code that classifies each sampled beneficiary as to his/her final response status. To determine this response status, we used postal delivery information provided by Ipsos for each sampled beneficiary. This information is contained in the FLAG_FIN variable which is described in Table 2.4

TABLE 2.4 FLAG_FIN VARIABLE FOR 2013 HCSDB

Value	Questionnaire Return Disposition	Reason/Explanation Given	Eligibility
1	Returned survey	Completed and returned	Eligible
2	Returned ineligible	Returned with at least one question marked and information that the beneficiary was ineligible	Ineligible
3	Returned blank	Information sent that beneficiary is temporarily ill or incapacitated	Eligible
4	Returned blank	Information sent that beneficiary is deceased	Ineligible
5	Returned blank	Information sent that beneficiary is incarcerated or permanently incapacitated	Ineligible
6	Returned blank	Information sent that beneficiary left military, or divorced after reference date, or retired	Eligible
7	Returned blank	Information sent that beneficiary was not eligible on reference date	Ineligible
8	Returned blank	Blank form accompanied by reason for not participating	Eligible
9	Returned blank	No reason given	Unknown
10	No return	Temporarily ill or incapacitated. Information came in by phone	Eligible
11	No return	Active refuser. Information came in by phone	Eligible
12	No return	Deceased. Information came in by phone	Ineligible
13	No return	Incarcerated or permanently incapacitated.	Ineligible
14	No return	Left military or divorced after reference date, or retired.	Eligible
15	No return	Not eligible on reference date.	Ineligible
16	No return	Other eligible.	Eligible
17	No return	No reason	Unknown
18	Postal Non-Deliverables (PND)	No address remaining	Unknown
19	PND	Address remaining at the close of field	Unknown
20	Original Non-Locatable	No address at start of mailing	Unknown
21	No return or returned blank	Written documentation declining participation, no reason given	Eligible
22	No return or returned blank	Hospitalized but no indication if temporary or permanent	Unknown
23	Returned blank	Deployed	Eligible
24	No return	Deployed	Eligible
25	Deceased	Updating process identified beneficiary as deceased	Ineligible
26	Ineligible	Updating process identified beneficiary as not eligible for Military Health System plan	Ineligible

Using the above variables in Table 2.4, we classified all sampled beneficiaries into four groups:

- **Group 1**: Eligible, Questionnaire Returned. Beneficiaries who were eligible for the survey and returned a questionnaire with at least one question answered (FLAG_FIN = 1)
- **Group 2**: Eligible, Questionnaire Not Returned (or returned blank). Beneficiaries who did not complete a questionnaire but who were determined to be eligible for military health care by the reference date, that is, not deceased, not incarcerated, not permanently hospitalized (FLAG_FIN = 3, 6, 8, 10, 11, 14, 16, 21, 23, 24)
- **Group 3:** Ineligible Beneficiaries who were ineligible because of death, institutionalization, or no longer being in the MHS as of the reference date (FLAG_FIN = 2, 4, 5, 7, 12, 13, 15, 25, 26)
- **Group 4:** Eligibility Unknown. Beneficiaries who did not complete a questionnaire and for whom survey eligibility could not be determined (FLAG_FIN = 9, 17, 18, 19, 20, 22)

Group 1 was then divided into two subgroups according to the number of survey items completed (including legitimate skip responses):

- G1-1. Complete questionnaire returned
- G1-2. Incomplete questionnaire returned

G1-1 consists of eligible respondents who answered "enough" questions to be classified as having completed the questionnaire. G1-2 consists of eligible respondents who answered only a few questions. To determine if a questionnaire is "complete", 20 key questions were chosen. These key questions were adapted from the complete questionnaire rule developed by Agency for Healthcare Research and Quality (AHRQ) for Consumer Assessment of Healthcare Providers and Systems (CAHPS) V4 surveys. At least 50 percent of these key items (more than nine) must be answered for a questionnaire to be accepted as a complete questionnaire. The key survey variables are: H13003, H13005, H13006, H13009, H13013, H13018, H13019, H13027, H13028, H13031, H13033, H13040, H13043, H13048, H13051, H13052, H13065, H13073, SREDA, and the race indicator.

Group 3 was then divided into two subgroups according to how ineligible beneficiaries were identified:

- G3-1. Returned ineligible (FLAG_FIN = 2, 4, 5, 7, 12, 13, 15)
- G3-2. Ineligible at time of Altarum address update (FLAG_FIN = 25, 26)

G3-1 consists of ineligible beneficiaries who responded to the survey request, but told us they were ineligible. G3-2 consists of beneficiaries identified as ineligible during the updating process.

Furthermore, we also subdivided Group 4 into the following:

- G4-1 for locatable-blank return/no reason or no return/no reason (FLAG_FIN = 9, 17, 22)
- G4-2 for nonlocatable-postal nondeliverable/no address, postal nondeliverable/had address, or original nonlocatable (FLAG_FIN = 18, 19, 20).

With this information, we can calculate the location rate (see Section 3.A).

With a code (FNSTATUS) for the final response/eligible status, we classified all sampled beneficiaries using the following values of FNSTATUS:

- 11 for G1-1
- 12 for G1-2

- 20 for Group 2
- 31 for G3-1
- 32 for G3-2
- 41 for G4-1
- 42 for G4-2

There were altogether 458 duplicate questionnaires in the three quarterly data sets Ipsos delivered. All duplicates were classified into one of the above six groups. We then retained the one questionnaire for each beneficiary that had the most "valid" information for the usual record selection process. For example, if two returned questionnaires from the same beneficiary have FNSTATUS code values of 11, 12, 20, 41, or 42, we retained the questionnaire with the smaller value. However, if one of a pair of questionnaires belongs to Group 3 (FNSTATUS = 31 or 32, i.e., ineligible), then we regarded the beneficiary as being ineligible.

Only beneficiaries with FNSTATUS = 11 were retained. All other records were dropped. In Quarters I-III, we retained 26,621 respondents.

D. CONSTRUCTED VARIABLES

One of the most important aspects of database development is the formation of constructed variables and scale variables to support analysis. Constructed variables are formed when no single question in the survey defines the construct of interest. In Table 2.1 there is a list of all constructed variables for 2013. Each constructed variable is discussed in this section and the relevant piece of SAS code is shown. All SAS programs can be found in Appendix F.

1. Demographic Variables

a. Region (XREGION)

Catchment area codes (CACSMPL not retained in public use file to maintain confidentiality) are used to classify beneficiaries into lead agent's regions. These regions correspond to the administrative organization of TRICARE before reorganization in 2004. The XREGION variable partitions all catchment areas into non-overlapped regions so that we can report catchment-level estimates in the catchment reports. The regions are defined as follows:

- 1 = Northeast
- 2 = Mid-Atlantic
- 3 = Southeast
- 4 = Gulfsouth
- 5 = Heartland
- 6 = Southwest
- 7.8 = Central
- 9 = Southern California
- 10 = Golden Gate
- 11 = Northwest
- 12 = Hawaii
- 13 = Europe
- 14 = Western Pacific Command (Asia)

```
15 = TRICARE Latin America
   16 = Alaska
     .= Unassigned (CACSMPL = 9999)
   For the purposes of our analysis, Region 7 and Region 8 were combined.
/* XREGION -HEALTH CARE REGIONS */
IF CACSMPL IN (0035, 0036, 0037, 0066, 0067,
           0068, 0069, 0081, 0086, 0100,
           0123, 0306, 0310, 0321, 0326,
           0330, 0385, 0413, 6201, 6223) THEN XREGION= 1;
ELSE IF CACSMPL IN (0089, 0090, 0091, 0092, 0120,
           0121, 0122, 0124, 0335, 0378, 0387, 0432,
           0433, 0508, 7143, 7286, 7294) THEN XREGION= 2;
ELSE IF CACSMPL IN (0039, 0041, 0045, 0046, 0047,
           0048, 0049, 0050, 0051, 0101,
           0103, 0104, 0105, 0337, 0356,
           0405, 0422, 0511
                                  ) THEN XREGION= 3;
ELSE IF CACSMPL IN (0001, 0002, 0003, 0004, 0038,
           0042, 0043, 0073, 0074, 0107,
           0297, 7139
                           ) THEN XREGION= 4;
ELSE IF CACSMPL IN (0055, 0056, 0060, 0061, 0095,
           9905
                             ) THEN XREGION= 5;
ELSE IF CACSMPL IN (0013, 0062, 0064, 0096, 0097,
           0098, 0109, 0110, 0112, 0113,
           0114, 0117, 0118, 0338, 0363,
           0364, 0365, 0366, 1587, 1592, 7236, 9906
                                                     ) THEN XREGION= 6;
ELSE IF CACSMPL IN (0008, 0009, 0010, 0079, 0083,
           0084, 0085, 0108, 9907
                                   ) THEN XREGION= 7;
ELSE IF CACSMPL IN (0031, 0032, 0033, 0053, 0057,
           0058, 0059, 0075, 0076, 0077,
           0078, 0093, 0094, 0106, 0119,
           0129, 0252, 7200, 7293, 9908
                                             ) THEN XREGION= 8;
ELSE IF CACSMPL IN (0018, 0019, 0024, 0026, 0029, 0030,
           0131, 0213, 0231, 0248, 0407, 5205,
           6215, 9909 ) THEN XREGION= 9;
ELSE IF CACSMPL IN (0014, 0015, 0028, 0235, 0250,
                             ) THEN XREGION=10;
           9910
ELSE IF CACSMPL IN (0125, 0126, 0127, 0128, 0395, 1646,
                             ) THEN XREGION=11;
ELSE IF CACSMPL IN (0052, 0280, 0287, 0534, 7043, 9912) THEN XREGION=12;
ELSE IF CACSMPL IN (0606, 0607, 0609, 0617, 0618,
           0623, 0624, 0629, 0633, 0635,
           0653, 0805, 0806, 0808, 0814,
           8931, 8982, 9913
                                  ) THEN XREGION=13;
ELSE IF CACSMPL IN (0610, 0612, 0620, 0621, 0622,
           0637, 0638, 0639, 0640, 0802,
           0804, 0853, 0862, 9914
                                    ) THEN XREGION=14;
ELSE IF CACSMPL IN (0449, 0613, 0615, 0616, 9915) THEN XREGION=15;
ELSE IF CACSMPL IN (0005, 0006, 0203, 9916
                                            ) THEN XREGION=16;
ELSE IF CACSMPL = 9999
                                         THEN XREGION= .;
IF CACSMPL IN (9901,9902,9903,9904) THEN DO;
 IF D HEALTH NOT IN ('00','17','18','19') THEN DO;
   XREGION=INPUT(D HEALTH,8.)+0;
```

```
END;
 ELSE DO:
   IF DCATCH IN ('0037', '0067', '0123', '0781', '0907',
            '0908', '0920', '0921', '0922', '0930',
            '0931', '0933', '0939', '0940', '0946',
            '0995')
   THEN XREGION=1;
   ELSE IF DCATCH IN ('0124', '0934', '0996')
      THEN XREGION=2;
   ELSE IF DCATCH IN ('0039', '0048', '0105', '0911', '0941',
               '0987')
      THEN XREGION=3;
   ELSE IF DCATCH IN ('0003', '0787', '0901', '0925', '0943',
               '0988', '0989')
      THEN XREGION=4:
   ELSE IF DCATCH IN ('0055', '0056', '0061', '0782', '0783',
               '0789', '0914', '0915', '0918', '0923',
              '0936', '0950')
      THEN XREGION=5;
   ELSE IF DCATCH IN ('0113', '0904', '0937', '0990', '0993')
      THEN XREGION=6;
   ELSE IF DCATCH IN ('0785', '0929', '0932')
      THEN XREGION=7;
   ELSE IF DCATCH IN ('0078', '0784', '0788', '0906', '0917',
               '0924', '0927', '0928', '0935', '0942',
               '0945', '0951', '0974')
      THEN XREGION=8:
   ELSE IF DCATCH IN ('0029', '0786', '0986')
      THEN XREGION=9;
   ELSE IF DCATCH IN ('0014', '0985')
      THEN XREGION=10;
   ELSE IF DCATCH IN ('0125', '0938', '0948', '0973')
      THEN XREGION=11;
   ELSE IF DCATCH IN ('0912')
      THEN XREGION=12;
   ELSE IF DCATCH IN ('0957', '0958', '0960', '0964', '0966',
               '0967', '0976', '0977', '0979',
               '0982')
      THEN XREGION=13;
   ELSE IF DCATCH IN ('0006', '0052', '0640', '0961', '0963',
               '0965', '0978', '0983')
      THEN XREGION=14;
   ELSE IF DCATCH IN ('0075', '0120', '0615', '0622', '0953',
               '0970', '0971', '0972', '0975')
      THEN XREGION=15;
   ELSE IF DCATCH IN ('0902')
      THEN XREGION=16;
 END:
END;
IF D_PAR = '0902' THEN XREGION=16;
IF XREGION = 0 THEN XREGION = .;
```

b. United States (USA)

XREGION is used to classify beneficiaries either in the United States or overseas

USA stands for United States including both Alaska and Hawaii.

```
IF XREGION IN (1,2,3,4,5,6,7,8,9,10,11,12,16) THEN USA=1; ELSE IF XREGION IN (13,14,15) THEN USA=0; ELSE IF XREGION = . THEN USA=.;
```

c. Overseas (XOCONUS)

XREGION is used to classify beneficiaries who are overseas as follows:

```
1=Europe
2=Western Pacific
3=Latin America
.=In Conus/Missing Region

IF XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
```

ELSE IF XREGION=15 THEN XOCONUS=3;

d. TRICARE Next Generation of Contracts Region (XTNEXREG)

XREGION is used to create XTNEXREG. XTNEXREG is the TRICARE Next Generation of Contracts Region grouping.

```
1=North
2=South
3=West
4=Overseas
IF XREGION IN (1,2,5) THEN XTNEXREG=1;
ELSE IF XREGION IN (3,4,6) THEN XTNEXREG=2;
ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNEXREG=3;
ELSE IF XREGION IN (13,14,15) THEN XTNEXREG=4;
                   /* MER 03/23/10 - If XREGION is missing, set XTNEXREG = TNEXREG */
ELSE IF XREGION = . THEN DO:
 IF TNEXREG = 'N' THEN XTNEXREG=1;
 ELSE IF TNEXREG = 'S' THEN XTNEXREG=2;
 ELSE IF TNEXREG = 'W' THEN XTNEXREG=3;
 ELSE IF TNEXREG = 'O' THEN XTNEXREG=4;
 ELSE XTNEXREG=.;
END; /
```

e. Out of Catchment Area (OUTCATCH)

CACSMPL is used to classify beneficiaries either in a catchment area or outside a catchment area.

```
/* OUTCATCH – OUT OF CATCHMENT AREA */
IF 9900 < CACSMPL < 9999 THEN OUTCATCH=1; /* Out of catchment area */
ELSE IF CACSMPL = 9999 THEN OUTCATCH=.;
ELSE OUTCATCH=0; /* Catchment area */
```

f. Catchment (XCATCH)

XCATCH is an MTF catchment area for annual beneficiary reports. The code to define catchment area is below::

```
LENGTH XCATCH 8:
 com geo = geocell;
 if pcm = 'MTF' then do:
%INCLUDE .".\..\Q3 2013\Programs\Sampling\AssignCOM GEO.inc"
   else if ('1976' <= enrid <= '1980') or ('6301' <= enrid <= '6323') or
     ('6991' <= enrid <= '6994') or ('6501' <=enrid <= '6512') or
     ('7166' <= enrid <= '7195') or ( '6700' <= enrid <= '6881' ) or enrid = '0000' or
     ('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919') or
     ('3031' <= enrid <= '3057') or
     enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208', '0250',
             '0449', '0626', '0012') or
     ('0190' <= enrid <='0199') then com_geo = geocell;
   else com_geo = d_par;
 end:
 else if patcat='ACTDTY' then com_geo=d_par;
 if d_fac='NONCAT' or d_fac='TGRO' or d_fac="TPR" then do;
   if d_health in ('01','02','05','17') then com_geo = '9901';
   else if d health in ('03','04','06','18') then com geo = '9902';
   else if d_health in ('07','08','09','10','11','12','19') then com_geo = '9903';
   else if d health in ('00', '13', '14', '15') then com geo = '9904';
 end:
        ***d fac="TPR" and d health = '17', '18', '19' were added above for Q3, 2004, ***;
 ***since we got the new regions 17(North T NEX),18(South T NEX),19(West T NEX).***;
 *** If the facility is unknown then set com_geo indicates unknown facility ***;
 *** '0999' added 03/15 to account for id 6992;
 if com geo in ('9900', '0999', '0998',' ') then com geo = '9904';
 ***Made the following 9 Navy sites stand alone in q1,2005:
 ***'0026','0068','0231','0378','0387','0405','0407','0508','6215'***;
 if geocell in ('0026','0068','0231','0378','0387','0405','0407','0508','6215') then com_geo=geocell;
 xcatch = INPUT(com_geo,8.);
 label xcatch = "XCATCH - Catchment Area (Reporting)";
```

g. Gender of Beneficiary (XSEXA)

XSEXA is constructed using self-reported sex, gender identified on the DEERS database, and answers to gender specific questions.

1=Male 2=Female

```
/** Note 19a - gender H13058, SEX, H13059B--H13064,
       XSEXA */
/* 1/21/98 use SRSEX & responses to gender specific questions
 if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE and MALE based on gender specific questions */
ARRAY fmaleval H13059B H13060 H13061 H13062 H13063 H13064
 cntfmale=0:
DO OVER fmaleval;
                       /* mammogram/pap smear/PREGNANT*/
  IF fmaleval>0 THEN cntfmale=cntfmale+1;
END;
 IF cntfmale>0 THEN FMALE=1;
ELSE FMALE = 0;
IF H13058=. THEN DO;
  IF (SEX='F' AND FMALE) THEN DO;
    N19a=1;
    XSEXA=2;
  END;
  ELSE IF (SEX='F' AND FMALE=0) THEN DO;
    N19a=2;
    XSEXA=2;
  END:
  ELSE IF (SEX='M' AND FMALE) THEN DO;
    N19a=3:
    XSEXA=1;
  END:
  ELSE IF (SEX='M' AND FMALE=0) THEN DO;
    N19a=4;
    XSEXA=1;
  ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
    N19a=5;
    XSEXA=2;
  END;
  ELSE IF (SEX='Z' AND FMALE=0) THEN DO:
    N19a=6:
    XSEXA=.;
  END;
  ELSE IF (SEX=' 'AND FMALE=0) THEN DO;
    N19a=7;
    XSEXA=.;
  END;
END;
ELSE IF (H13058=1) THEN DO;
  IF FMALE=0 THEN DO;
    N19a=8:
    XSEXA=1;
  END;
  ELSE IF FMALE THEN DO;
    IF SEX='F' THEN DO;
```

```
N19a=9:
    XSEXA=2;
  END;
  ELSE DO:
    N19a=10;
    XSEXA=1;
  END;
 END;
END;
ELSE IF (H13058=2) THEN DO;
 IF FMALE THEN DO;
  N19a=11;
  XSEXA=2;
 END:
 ELSE IF FMALE=0 THEN DO;
  IF SEX='M' THEN DO;
   N19a=12;
   XSEXA=1;
  END;
  ELSE DO:
    N19a=13;
    XSEXA=2;
  END;
 END;
END;
```

h. Beneficiary Group (XBNFGRP)

We redefined beneficiary groups to exclude any active duty personnel and any active duty family members who are age 65 or older. The variable XBNFGRP reconstructs beneficiary groups into the following values:

```
1 = Active Duty, under 65
2 = Family members of Active Duty, under 65
3 = Retirees, survivors, and family members, under 65
4 = Retirees, survivors, and family members, 65 or over
.= Unknown/other

/* XBNFGRP-Beneficiary Group that excludes those 65 and over-Active Duty and Family Members of Active Duty and TRICARE Reserve select enrollees.*/
IF FIELDAGE >= 65 AND ENBGSMPL IN (1, 2, 3, 4) THEN XBNFGRP = .;
ELSE IF ENBGSMPL = 1 THEN XBNFGRP = 1;
ELSE IF ENBGSMPL IN (2, 3, 4) THEN XBNFGRP = 2;
ELSE IF ENBGSMPL IN (5, 6, 7) THEN XBNFGRP = 3;
ELSE IF ENBGSMPL IN (8, 9, 10) THEN XBNFGRP = 4;
ELSE IF ENBGSMPL IN (11) THEN XBNFGRP = .;
```

i. Service Affiliation (XSERVAFF)

We redefined service affiliation to collapse coast guard, administrative, support contractor, USTF, noncatchment, other, not available, missing/unknown service affiliations into a single category. The variable XSERVAFF reconstructs service affiliation into the following values:

```
1 = Army
2 = Air Force
3 = Navy
4 = Other
```

2. TRICARE Prime Enrollment and Insurance Coverage

a. TRICARE Prime Enrollment Status (XENRLLMT)

For reporting purposes, a person is considered enrolled in TRICARE Prime if they are under 65 and the poststratification enrollment type (ENBGSMPL), based on DEERS data, indicates that they were enrolled at the time of data collection. Because it is important to view the experiences of active duty personnel separately from other enrollees, there is a separate category for Active Duty (under 65) — they are automatically enrolled in Prime. The five categories for TRICARE Prime enrollment are as follows:

```
1 = Active Duty, under 65
2 = Other enrollees, under 65
3 = Not enrolled in TRICARE Prime, under 65
4 = Not enrolled in TRICARE Prime, 65 or over
5 = Enrolled in TRICARE Prime, 65 or over
. = Unknown
/* XENRLLMT—ENROLLMENT STATUS */
IF 17 <= INPUT(FIELDAGE, 8.) < 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 1 THEN XENRLLMT = 1;
                                                            /* Active duty (<65) */
  ELSE IF INPUT(ENBGSMPL,8.) IN (2, 3, 5, 6) THEN XENRLLMT = 2; /* Non-active duty
enrolled (<65)*/
  ELSE IF INPUT(ENBGSMPL,8.) IN (4, 7,11) THEN XENRLLMT = 3; /* Not Enrolled (<65)*/
END;
ELSE IF INPUT(FIELDAGE,8.) > = 65 THEN DO:
  IF INPUT(ENBGSMPL,8.) = 10 THEN XENRLLMT = 4;
                                                             /* Not Enrolled (65+)*/
  IF INPUT(ENBGSMPL,8.) IN (8,9) THEN XENRLLMT = 5;
                                                            /* Enrolled (65+) */
END:
```

TRICARE Prime Enrollment Status by Primary Care Manager (XENR PCM)

This variable, similar to the previous variable XENRLLMT, separates the enrollees other than the active duty category into those with a military primary care manager (PCM) and those with a civilian PCM. Active duty personnel are automatically enrolled and always have a military PCM. XENR_PCM has seven possible values:

```
1 = Active Duty, under 65, military PCM
2 = Other enrollees, under 65, military PCM
3 = Other enrollees, under 65, civilian PCM
4 = Not enrolled in TRICARE Prime, under 65
5 = Not enrolled in TRICARE Prime, 65 or over
6 = Enrolled in TRICARE Prime, 65 or over, military PCM
7 = Enrolled in TRICARE Prime, 65 or over, civilian PCM
```

09/27/13

. = Unknown

```
/* XENR PCM—ENROLLMENT BY PCM TYPE */
IF 17 <= FIELDAGE < 65 THEN DO:
 IF ENBGSMPL = 1 THEN XENR_PCM = 1;
                                             /* Active duty (<65)
 ELSE IF ENBGSMPL IN (3, 6) THEN XENR_PCM = 2; /* Enrolled (<65) - mil PCM */
 ELSE IF ENBGSMPL IN (2, 5) THEN XENR_PCM = 3; /* Enrolled (<65) - civ PCM */
 ELSE IF ENBGSMPL IN (4, 7,11) THEN XENR PCM = 4; /* Not Enrolled (<65)
ELSE IF FIELDAGE > = 65 THEN DO:
  IF ENBGSMPL = 10 THEN XENR PCM = 5;
                                            /* Not Enrolled (65+)
 IF ENBGSMPL = 9 THEN XENR_PCM = 6;
                                            /* Enrolled (65+)-mil PCM */
  IF ENBGSMPL = 8 THEN XENR PCM = 7;
                                            /* Enrolled (65+)-civ PCM */ /*NJ Q2*/
END;
END;
```

c. Most-Used Health Plan (XINS_COV)

1 = Active Duty, under 65

2 = Other TRICARE Prime enrollees, under 65 3 = TRICARE Standard/Extra (CHAMPUS)

The respondent's most-used health plan comes directly from variable H12003 (unless the respondent is active duty) and the respondent's age. All active duty personnel are automatically enrolled in Prime. The twelve categories for this variable are as follows:

```
4 = Medicare Part A and/or Part B
5 = Other civilian health insurance or civilian HMO
6 = Prime, 65 or over
7 = TRICARE Plus and Medicare
8 = Veterans Administration (VA)
9 = TRICARE Reserve Select
10 = TRICARE Retired Reserve
11 = TRICARE Young Adult
12 = CHCBP
. = Unknown
/* XINS COV--INSURANCE COVERAGE */
IF XENRLLMT = 1 THEN XINS COV =1;
                                                     /* Prime <65-Active Duty */
 ELSE IF 17 <= INPUT(FIELDAGE,8.) < 65 AND H13003 IN (1) THEN XINS_COV = 2; /* Prime
<65-Non-active Duty */
 ELSE IF H13003 = 3 THEN XINS COV = 3;
                                                      /* Standard/Extra */
 ELSE IF H13003 = 11 THEN XINS COV = 7:
                                                       /* Plus and Medicare */
 ELSE IF H13003 = 4 THEN XINS_COV = 4;
                                                       /* Medicare*/
 ELSE IF H13003 IN (5,6, 7, 8, 9, 13) THEN XINS COV = 5;
                                                                 /* Other civilian health
insurance*/
 ELSE IF H13003 = 10 THEN XINS_COV = 8;
                                                       /* Veterans Administration (VA) */
                                                       /* TRICARE Reserve Select */
 ELSE IF H13003 = 12 THEN XINS COV = 9;
 ELSE IF H13003 = 14 THEN XINS_COV = 10;
                                                           /* TRICARE Retired Reserve -
MER 06/21/11 */
 ELSE IF 21 <= INPUT(FIELDAGE,8.) <= 26
  AND H13003 = 15 THEN XINS COV = 11;
                                                        /* TRICARE Young Adult - MER
06/21/11 */
 ELSE IF H13003 = 16 THEN XINS COV = 12:
                                                        /* CHCBP - MER 06/21/11 */
 ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLLMT = 5 and H13003 = 1) THEN XINS_COV
= 6; /* Prime, >= 65 */
 ELSE IF H13075=1 AND H13076=1 AND H13003 NE .N THEN XINS COV = 4;
NEW Q2 Medicare/Medicaid */
```

2 = Prime <65-Non-active Duty

1 = Prime <65-Active Duty (Non reservists)

d. Insurance Coverage Distinguishing Reservists From Active Duty (XINS_RSV)

This variable is similar to XINS_COV but separates reservists from other Active Duty. XINS RSV has 13 possible values:

```
3 = Standard/Extra
 4 = Medicare/Medicaid
 5 = Other civilian health insurance
 6 = Prime, >= 65
 7 = Plus and Medicare
 8 = Veterans Administration (VA)
 9 = TRICARE Reserve Select
 10 = Prime <65-Active Duty (Reservists)
 11 = TRICARE Retired Reserve
 12 = TRICARE Young Adult
 13 = CHCBP
 . = Unknown
/* XINS RSV--INSURANCE COVERAGE DISTINGUISHING RESERVISTS FROM ACTIVE
 IF XENRLLMT = 1 THEN DO;
  IF XBENCAT IN (1) THEN XINS RSV =1;
                                                           /* Prime <65-Active Duty (Non
reservists) */
  ELSE IF XBENCAT IN (3,5) THEN XINS_RSV=10;
                                                                /* Prime <65-Active Duty
(Reservists) */
 END;
 ELSE IF 17 <= INPUT(FIELDAGE,8.) < 65 AND H13003 IN (1) THEN XINS_RSV = 2; /* Prime
<65-Non-active Duty */
 ELSE IF H13003 = 3 THEN XINS RSV = 3;
                                                       /* Standard/Extra */
                                                       /* Plus and Medicare */
 ELSE IF H13003 = 11 THEN XINS_RSV = 7;
 ELSE IF H13003 = 4 THEN XINS RSV = 4;
                                                       /* Medicare*/
 ELSE IF H13003 IN (5,6, 7, 8, 9, 13) THEN XINS_RSV = 5;
                                                                  /* Other civilian health
insurance*/
 ELSE IF H13003 = 10 THEN XINS RSV = 8:
                                                       /* Veterans Administration (VA) */
 ELSE IF H13003 = 12 THEN XINS RSV = 9;
                                                       /* TRICARE Reserve Select */
 ELSE IF H13003 = 14 THEN XINS RSV = 11;
                                                          /* TRICARE Retired Reserve -
MER 06/21/11 */
 ELSE IF 21 <= INPUT(FIELDAGE,8.) <= 26
  AND H13003 = 15 THEN XINS RSV = 12;
                                                         /* TRICARE Young Adult - MER
06/21/11 */
 ELSE IF H13003 = 16 THEN XINS_RSV = 13;
                                                        /* CHCBP - MER 06/21/11 */
 ELSE IF (INPUT(FIELDAGE,8.)>= 65 AND XENRLLMT = 5 and H13003 = 1) THEN XINS_RSV
= 6; /* Prime, >= 65 */
 ELSE IF H13075=1 AND H13076=1 AND H13003 NE .N THEN XINS RSV = 4;
Medicare/Medicaid */
```

e. Enrollment Distinguishing Reservists From Active Duty (XENR RSV)

This variable is similar to XENR_PCM but separates reservists from other active duty. XINS_RSV has 8 possible values:

```
1 = Active duty (<65) Non reservists
2 = Enrolled (<65) - mil PCM
```

```
3 = Enrolled (<65) - civ PCM
 4 = Not Enrolled (<65)
 5 = Not Enrolled (65+)
 6 = Enrolled (65+)-mil PCM
 7 = Enrolled (65+)-civ PCM
 8 = Active Duty (<65) Reservists
 . = Unknown
/* XENR RSV--ENROLLMENT DISTINGUISHING RESERVISTS FROM ACTIVE DUTY */
IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;
 IF INPUT(ENBGSMPL,8.) = 1 THEN DO;
                                                    /* Active duty (<65) Non reservists */
   IF XBENCAT IN (1) THEN XENR_RSV = 1;
   ELSE IF XBENCAT IN (3,5) THEN XENR_RSV = 8;
                                                          /* Active duty (<65) Reservists */
 END:
 ELSE IF INPUT(ENBGSMPL,8.) IN (3, 6) THEN XENR_RSV = 2;
                                                                   /* Enrolled (<65) - mil
PCM */
 ELSE IF INPUT(ENBGSMPL,8.) IN (2, 5) THEN XENR RSV = 3; /* Enrolled (<65) - civ
 ELSE IF INPUT(ENBGSMPL,8.) IN (4, 7,11) THEN XENR RSV = 4; /* Not Enrolled (<65)
*/
END:
ELSE IF INPUT(FIELDAGE, 8.) > = 65 THEN DO;
  IF INPUT(ENBGSMPL,8.) = 10 THEN XENR RSV = 5;
                                                           /* Not Enrolled (65+)
  IF INPUT(ENBGSMPL,8.) = 9 THEN XENR_RSV = 6;
IF INPUT(ENBGSMPL,8.) = 8 THEN XENR_RSV = 7;
                                                           /* Enrolled (65+)-mil PCM */
                                                           /* Enrolled (65+)-civ PCM */
END;
```

f. Types of Coverage (KCIVINS)

A binary variable was created to indicate the type of insurance that respondents use:

Is the respondent covered by private civilian insurance (KCIVINS)

```
This variable has the following values:
```

1 = Yes

2 = No

.= Unknown

```
IF H13002G=1 OR H13002I=1 OR H13002J=1 THEN KCIVINS=1; /* YES */ ELSE KCIVINS=2; /* NO */
```

3. Preventive Care

(HP_PRNTL, HP_MAMOG, HP_MAM50, HP_PAP, HP_BP, HP_FLU, HP_SMOKE, HP_SMKH3, HP_CESH3, HP_OBESE, XBMI, XBMICAT)

Preventive care analyses incorporate either a TRICARE standard or a federal Healthy People 2020 objective. We constructed new binary variables from the responses to indicate whether the respondent received the preventive care service within the recommended time period. See Table 2.5 for the list of the variables developed for analysis of preventive care; these variables will be compared to the TRICARE standard or Healthy People 2020 Goal. With the exception of XBMI and XBMICAT, the new preventive care variables have the following values:

- 1 = Received service within the recommended time period
- 2 = Did not receive service within the recommended time period
- .= Missing information

TABLE 2.5 PREVENTIVE CARE STANDARDS

Duna and in an O	TREVENTIVE GARE STANDARDO										
Preventive Care Delivered	Relevant Question	Variable Name	Received Service In Recommended Time Period (Numerator)	Population Involved (Denominator)	Standard						
Blood Pressure	H13049 &	HP_BP	Number with care in the	Adults	95% within past 2						
Check	H13050		past 24 months and know the results		years						
Flu Shot	H13051	HP_FLU	Number with care in the past 12 months	Adults age 65 and older	90% in past year, age 65 and over						
Pap Smear	H13059B	HP_PAP	Number with care in the past 36 months	Adult females	93% in the past 36 months						
Mammography	H13061	HP_MAMOG	Number with care in the past 24 months	Females age 40 and over	81% in the past 24 months						
Mammography	H13061	HP_MAM50	Number with care in the past 24 months	Females age 50 and over	81% in the past 24 months						
Smoker	H13054	HP_SMOKE	Number that smoked in the past 12 months	Adults	12% in the last 12 months						
Smoker	H13052 & H13053	HP_SMKH3	Number that smoked in the past 12 months	Adults	12% in the last 12 months						
Smoking Cessation	H13053 & H13054	HP_CESH3	Number that smoked in the past 12 months and received smoking cessation counseling	All current adult smokers and those who quit smoking within the past year	None						
Prenatal Care	H13062, H13063, H13064	HP_PRNTL	Number with care in the first trimester	Adult females who are currently pregnant or who were pregnant in the past 12 months, excluding those less than 3 months pregnant who haven't received care	78% had care in first trimester						
Non-Obese Weight	H13071F, H13071I & H13072	HP_OBESE	Number of people who are not obese	Adults	69% are not obese						

```
/* HP_PRNTL--IF PREGNANT LAST YEAR, RECEIVED PRENATAL CARE IN 1ST TRIMESTER
IF H13062 IN (1,2) THEN DO;
                                            /* Pregnant in last 12 months */
                                                /* Yes */
 IF H13064 = 4 THEN HP PRNTL = 1;
   ELSE IF (H13063 = 1 AND H13064 = 1) THEN HP_PRNTL = .; /* <3 months pregnant now */
                                                    /* No */
   ELSE IF H13064 IN (1,2,3) THEN HP_PRNTL = 2;
END;
/* MER 12/19/2011 - added HP_PRNTL recode to N/A for males */
ELSE IF H13062 IN (.C,.N) THEN HP_PRNTL = .N; /* Male */
/* HP_MAMOG--FOR WOMEN AGE 40 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 40 THEN DO;
 IF H13061 IN (5, 4) THEN HP_MAMOG = 1;
 ELSE IF H13061 IN (1, 2, 3) THEN HP MAMOG = 2; /* No */
END;
/* HP_MAM50--FOR WOMEN AGE 50 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 50 THEN DO;
 IF H13061 IN (5, 4) THEN HP_MAM50 = 1; /* Yes */
```

```
ELSE IF H13061 IN (1, 2, 3) THEN HP_MAM50 = 2; /* No */
END:
/* HP PAP--FOR ALL WOMEN, HAD PAP SMEAR IN LAST 3 YEARS */
IF XSEXA = 2 THEN DO:
 IF H13059B IN (4, 5, 6) THEN HP PAP = 1;
 ELSE IF H13059B IN (1, 2, 3) THEN HP PAP = 2; /* No */
END;
/* HP BP--HAD BLOOD PRESSURE SCREENING IN LAST 2 YEARS AND KNOW RESULT */
IF H13049 IN (2,3) AND H13050 IN (1,2) THEN HP_BP = 1; /* Yes */
 ELSE IF H13049 = 1 THEN HP BP = 2; /* No
 ELSE IF H13049 < 0 OR H13050 < 0 THEN HP_BP = .; /* Unknown */
 ELSE HP BP = 2;
                                      /* No */
/* HP FLU--FOR PERSON AGE 65 OR OVER, HAD FLU SHOT IN LAST 12 MONTHS */
IF INPUT(FIELDAGE.8.) >= 65 THEN DO:
 IF H13051 = 4 THEN HP_FLU = 1;
                                           /* Yes */
 ELSE IF H13051 IN (1, 2, 3) THEN HP FLU = 2; /* No */
END:
/* HP SMOKE--ADVISED TO QUIT SMOKING IN PAST 12 MONTHS */
IF H13054 IN (2, 3, 4) THEN HP_SMOKE = 1; /* Yes */
ELSE IE H13054 = 1 THEN HP_SMOKE = 2; /* No */
/* Add code for smoking and smoking cessation counseling according to the HEDIS */
/* definition. Smoking variable is HP SMKH3 and smoking cessation counseling */
/* is HP CESH3.
IF H13052 IN (1,2) THEN DO;
 IF H13052=1 AND (H13053=3 OR H13053=4) AND H13057A=1 THEN HP_SMKH3=1; /* Yes */
 ELSE IF H13052=2 OR H13053=2 OR H13057A NE 1 THEN HP_SMKH3=2;
END:
IF (H13053=3 OR H13053=4) AND H13054>0 THEN DO;
 IF H13054>1 THEN HP_CESH3=1; /* Yes */
 ELSE HP CESH3=2;
END:
* Calculate XBMI- Body Mass Index and XBMICAT- Body Mass Index Category
* BMI=Weight(in pounds)*703 divide by Height(in inch)*Height(in inch)
IF H13071F IN (.A,.O,.I,.B) THEN TSRHGTF=.; ELSE TSRHGTF=H13071F;
IF H13071I IN (.A,.O,.I,.B) THEN TSRHGTI=.; ELSE TSRHGTI=H13071I;
IF H13072 IN (.A,.O,.I,.B) THEN TSRWGT =.; ELSE TSRWGT =H13072;
IF TSRHGTF IN (.) OR
  TSRWGT IN (.) THEN XBMI=.;
```

```
ELSE DO:
  XBMI = ROUND((TSRWGT*703)/
        (SUM(TSRHGTF*12,TSRHGTI)*SUM(TSRHGTF*12,TSRHGTI)), .1);
END;
IF XBMI >= 100 THEN XBMI=.;
DROP TSRHGTF TSRHGTI TSRWGT:
  IF XBMI = .
               THEN XBMICAT=.;
 ELSE IF XBMI < 18.5 THEN XBMICAT=1; *Underweight;
  ELSE IF XBMI < 25 THEN XBMICAT=2; *Normal Weight;
  ELSE IF XBMI < 30 THEN XBMICAT=3; *Overweight;
  ELSE IF XBMI < 40 THEN XBMICAT=4; *Obese;
                XBMICAT=5; *Morbidly Obese;
  ELSE
/*ADD HP OBESE VARIABLE. JMA 11/3/2005*/
IF XBMICAT=. THEN HP OBESE=.:
ELSE IF XBMICAT IN (4,5) THEN HP OBESE=1; *OBESE;
ELSE HP_OBESE=2;
                                *NOT OBESE:
```

4. Utilization

a. Outpatient Utilization (KMILOPQY, KCIVOPQY)

H13013 contains the total outpatient visits. This is called KMILOPQY for those receiving care at military facilities; we adjust KMILOPQY to reflect zero visits for those with no care or those who get their care from civilian facilities. KCIVOPQY is the comparable variable for those who receive care at civilian facilities.

```
/* KMILOPQY--OUTPATIENT VISITS TO MILITARY FACILITY KCIVOPQY--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF H13005 = 1 THEN DO;
KMILOPQY=H13013;
KCIVOPQY=1;
END;
ELSE IF H13005 IN (2, 3, 4) THEN DO;
KCIVOPQY=H13013;
KMILOPQY=1;
END;
ELSE IF H13005 = 5 THEN DO;
KMILOPQY=1;
KCIVOPQY=1;
END;
```

E. WEIGHTING PROCEDURES

Quarterly and annual estimates based on the 2013 HCSDB must account for the survey's complex sample design and adjust for possible bias due to nonresponse. As part of sample selection, Mathematica constructed sampling weights (BWT) that reflect the differential selection probabilities used to sample beneficiaries across strata. With the level of nonresponse experienced in the HCSDB and the likelihood that respondents and nonrespondents will differ in terms of their

responses to survey questions, the issue of nonresponse bias is potentially a serious one. In previous surveys prior to 2005 we compensated for potential nonresponse bias by adjusting for nonresponse independently within weighting classes defined by the stratification variables—enrollment status, beneficiary group, and geographic area. In other words, it was assumed that both response propensity and characteristics related to survey outcome variables were homogeneous within these weighting classes.

However, because the HCSDB sample is selected from the DEERS, a great deal is known about both respondents and nonrespondents. Consequently, a wide choice of variables is available for use as auxiliary variables in the nonresponse weighting adjustments. As described above, in previous surveys, the only auxiliary variables used in developing the nonresponse weighting adjustments were the stratification variables, a small subset of the available variables.

Therefore, beginning with the 2005 HCSDB we developed a new weighting adjustment procedure to incorporate more information about respondents and nonrespondents. The first stage in this process identified variables from the frame that were most related to whether or not a beneficiary responded to the survey. After initial screening of variables, the Chi-squared Automatic Interaction Detection (CHAID) (Biggs et al. 1991) technique was used for this purpose. Second, we incorporated the chosen auxiliary variables into a weighting class adjustment procedure using a response propensity model.

1. Constructing the Sampling Weight

The sampling weight was constructed on the basis of the sample design. In the 2013 HCSDB, stratified sampling was used to select the samples that would receive the questionnaire. Sampling was independently executed within strata defined by combinations of three domains: enrollment status groups; beneficiary groups; and geographic areas.

The sample was selected with differential probabilities of selection across strata. Sample sizes were driven by predetermined precision requirements. For further details of the 2013 adult sample design, see "Health Care Survey of DoD Beneficiaries: 2013 Adult Sampling Report (2013)." Our first step in constructing sampling weights was to ensure that they reflected these unequal sampling rates. These sampling weights can be viewed as the number of population elements each sampled beneficiary represents. The sampling weight was defined as the inverse of the beneficiary's selection probability:

$$W_s(h,i) = \frac{N_h}{n_h}$$

where:

 $W_s(h,i)$ is the sampling weight for the i^{th} sampled beneficiary in stratum h,

 N_h is the total number of beneficiaries in stratum h, and

 n_h is the number of sampled beneficiaries in stratum h.

The sum of the sampling weights over selections i, from stratum h equals the total population size of stratum h or N_h .

2. Adjustment for Total Nonresponse

Survey estimates obtained from respondent data only can be biased with respect to describing characteristics of the total population (Lessler and Kalsbeek 1992). The choice of an appropriate method for adjusting for potential nonresponse bias depends on the response mechanism that underlies the study population. We adjusted for nonresponse independently within classes, with the assumptions that both response and characteristics directly or indirectly related to survey variables are homogeneous within these classes. Two types of nonresponse were associated with the 2013 HCSDB:

- Unit or total nonresponse occurred when a sampled beneficiary did not respond to the survey questionnaire (e.g., refusals, no questionnaire returned, blank questionnaire returned, bad address).
- Item nonresponse occurred when a question that should have been answered was not answered (e.g., refusal to answer, no response).

Because item response rates in previous surveys were high, statistical imputation, a technique used to compensate for item nonresponse, was not used in the 2013 HCSDB. To account for unit or total nonresponse, we implemented a weighting class adjustment procedure where the weighting classes are formed from a response propensity model.

3. Weighting Class Adjustments

Weighting class adjustments were made by partitioning the sample into groups, called weighting classes, and then adjusting the weights of respondents within each class so that they sum to the weight total for nonrespondents and respondents from that class. Implicit in the weighting class adjustment is the assumption that—had the nonrespondents responded—their responses would have been distributed in the same way as the responses of the other respondents in their weighting class.

The 2013 HCSDB weighting was implemented by using a method that was instituted in 2005. This method forms the weighting classes using the propensity scores from the propensity model.

Nonresponse adjustment factors for the 2013 HCSDB were calculated in two steps. First, we adjusted the sampling weights to account for sampled beneficiaries for whom eligibility status could not be determined. Sampled beneficiaries were then grouped as follows according to their response status *d*:

d=1 Eligible — complete questionnaire returned (FNSTATUS = 11) d=2 Eligible — incomplete or no questionnaire returned (FNSTATUS = 12 or 20) d=3 Ineligible — deceased, incarcerated or permanently incapacitated beneficiary (FNSTATUS = 31) d=4 Eligibility unknown — no questionnaire or eligibility data (FNSTATUS = 41 or 42) d=5 Ineligible — ineligible at time of Altarum address update (FNSTATUS = 32)

Within weighting class c, the weights of the d = 4 nonrespondents with unknown eligibility were redistributed to the cases for which eligibility was known (d = 1, 2, 3), using an adjustment factor $A_{wc1}(c,d)$ that was defined to be zero for d = 4, one for d = 5, and defined as:

$$A_{\text{wcl}}(c,d) = \frac{\sum_{i \in S(c)} W_s(c,i)}{\sum_{i \in S(c)} I_1(i) W_s(c,i) + \sum_{i \in S(c)} I_2(i) W_s(c,i) + \sum_{i \in S(c)} I_3(i) W_s(c,i)} \text{ for d = 1, 2, 3}$$

where:

- $A_{\text{wc1}}(c,d)$ is the eligibility-status adjustment factor for weighting class c and response status code d.
- I_{d} (i) is the indicator function that has a value of 1 if sampled unit i has a response status code of d and value of 0 otherwise.
- S(c) is the set of sample members belonging to weighting class c, and
- $W_{\rm s}(c,i)$ is the sampling weight (BWT) for the $i^{\rm h}$ sample beneficiary from weighting class c before adjustment.

The adjustment $A_{wc1}(c,d)$ was then applied to the sampling weights to obtain the eligibility-status adjusted weight. Beneficiaries in weighting class c with response status code of d were assigned the eligibility-status adjusted weight:

$$W_{\text{wc1}}(c,d,i) = A_{\text{wc1}}(c,d) W_{\text{s}}(c,i)$$
 for $d = 1, 2, 3, 4, 5$

Note that since d = 5 cases have an adjustment factor of one, they have an adjusted weight equal to the sampling weight. Moreover, note that since d = 4 cases have adjustment factors of zero; they also have adjusted weights of zero.

The next step in weighting was to adjust for incomplete or missing questionnaires from beneficiaries known to be eligible. For this adjustment, the weighting class method is again used. Within weighting class c the sample was again partitioned into groups according to the beneficiary's response status code d. Within weighting class c, the weights of the d=2 nonresponding eligibles were redistributed to the responding eligibles d=1, using an adjustment factor $A_{wc2}(c,d)$ that was defined to be zero for d=2, 4. For Group 1 (d=1), the questionnaire-completion adjustment or $A_{wc2}(c,1)$ factor for class c was computed as:

$$A_{wc2}(c,1) = \frac{\sum_{i \in S(c)} I_1(i) W_{wc1}(c,i) + \sum_{i \in S(c)} I_2(i) W_{wc1}(c,i)}{\sum_{i \in S(c)} I_1(i) W_{wc1}(c,i)}$$

By definition, all d=3 and d=5 ineligible beneficiaries "respond," so the d=3 and d=5 adjustment factor is 1, or $A_{wc2}(c,3)=A_{wc2}(c,5)=1$. The questionnaire-completion adjusted weight was calculated as the product of the questionnaire-completion adjustment $A_{wc2}(c,d)$ and the previous eligibility-status adjusted weight $W_{wc1}(c,d,i)$, or:

$$W_{wc2}(c,d,i) = A_2(c,d)W_{wc1}(c,d,i)$$

As a result of this step, all nonrespondents (d = 2, 4) had questionnaire-completion adjusted weights of zero, while the weight for ineligible cases (d = 3, 5) remained unchanged, or $W_{wc2}(c,3,i) = W_{wc1}(c,3,i)$ and $W_{wc2}(c,5,i) = W_{wc1}(c,5,i)$.

4. Response Propensity Model

It is common practice to use weighting adjustments to compensate for unit nonresponse in sample surveys. There are numerous methods developed to make these adjustments (Kalton and Maligalig, 1991; Holt and Smith, 1979; Oh and Scheuren, 1983; Little and Vartivarian, 2003; Vartivarian and Little, 2003). Moreover, a number of studies have evaluated multiple weighting methods to adjust for nonresponse. Carlson and Williams (2001) found nearly identical results with respect to the design effects and the weighted estimates for two weighting approaches: 1) weighting classes using the design features (strata and sampling units), and 2) propensity models containing numerous variables identified as predictors of response. They conjectured that the propensity model approach might perform better for estimates in key geographic subdomains because there would be many fewer weighting cells than for the national estimates. Rizzo et al. (1994) investigated several alternative methods for panel nonresponse in the Survey of Income and Program Participation (SIPP), including nonresponse adjustment cells, logistic regression, CHAID methods, and generalized raking methods. They found a number of variables related to panel nonresponse that are not employed in the standard SIPP nonresponse adjustment cells methodology. These variables were used in the alternative weighting methods and were found to result in similar weights regardless of method. Therefore, Rizzo et al conclude that the choice of model variables is more important than the weighting methodology.

a. Predictors of Response Propensity

The first step in developing nonresponse adjustments is deciding which of the large number of variables available from the HCSDB sample frame would be best to use in the adjustment procedures. We do this by evaluating each variable and its relationship to response. Segmentation analysis using the CHAID software was used to allow for a model-building process that focuses on segments showing different response propensities. This analysis avoids the problem of examining "all possible interactions" that is typical of regression modeling. The unweighted segmentation algorithm split the sample into subgroups based on response rates. The splitting process continued until either no other predictors were found or the segment size fell below a minimum size of 50. For ease of interpretation, we also limited the splitting process to three levels. We ran the CHAID analysis twice, once to predict eligibility determination and again to predict survey completion among eligible beneficiaries

b. Response Propensity Weighting Classes

The nonresponse adjustments involved developing weighting classes using sample design characteristics and the response propensity model developed in the modeling stage. The usual HCSDB approach computes the response weight adjustment cells based on fully observed variables from the sample frame. However, in order to avoid empty or sparsely populated cells, we limited our classification to the stratification variables (catchment area, enrollment, and beneficiary group) and collapsed these cells as necessary.

The alternative approach we used to reduce the number of cells was to stratify based on response propensity. The method used a model of the relationship between a set of beneficiary characteristics and a response outcome. We used logistic regression to model this relationship because response outcome is dichotomous: beneficiaries either respond or they do not. If the characteristics in the model predict response well and if the characteristics are correlated with the substantive variables of the survey, then the model-based adjustment factors applied to the

09/27/13 39

_

¹ Using as a criterion the significance of a chi-squared test, CHAID evaluates all of the values of a potential predictor variable. It merges values that are judged to be statistically homogeneous (similar) with respect to response and maintains all other values that are heterogeneous (dissimilar). It then selects the best predictor variable to form the first branch in the decision tree, such that each node is made of a group of homogeneous values of response. This process continues recursively until the tree is fully grown.

sampling weights greatly reduce the potential for nonresponse bias. Like the previous weighting class adjustment method, we make two separate weighting adjustments to attempt to compensate for nonresponse: an eligibility determination adjustment and a completion adjustment.

The overall probability of having a known eligibility status is estimated with a logistic regression model. The probability that sample beneficiary *i* has a known eligibility status is:

$$\hat{\lambda}_{i} = P \left[E_{i} = 1 \mid X_{i} \hat{\beta} \right]$$
$$= \left[1 + \exp \left(-X_{i} \hat{\beta} \right) \right]^{-1}$$

where

$$E_i = \begin{cases} 1 \text{ if sample beneficiary } i \text{ has eligibility status determined} \\ 0 \text{ otherwise} \end{cases}$$

and X_i is a vector of HCSDB response predictors (main effects and interaction terms) and $\hat{\beta}$ are the estimated regression coefficients.

To determine the best set of response predictors we fit models using unweighted stepwise, backward, and forward logistic regression procedures in SAS. We developed a model for Continental U.S. (CONUS) and Outside of Continental U.S. (OCONUS) separately and included as response predictors an indicator variable for each TNEX region. Besides TNEX region, an indicator of whether a beneficiary is in a catchment area or not was added in the model. In the full model, we included all nine variables (TNEX region, age, beneficiary group, PCM, personnel category, rank, sex, service, and an indicator for being in a catchment area) and interactions identified by the CHAID analysis as response predictors. We re-ran the three resulting unweighted models using weights and the sample design characteristics in SUDAAN. We estimated the coefficients using a weighted logistic regression procedure in SUDAAN, which incorporates the stratified design in estimating standard errors for the coefficients. We selected the model with the best Hosmer and Lemeshow (H-L) goodness-of-fit test from both SAS and SUDAAN since all models have similar concordance-discordance rates.

For each eligibility determination model, we ordered the list of response propensity scores and then divided them into groups of equal size. Ten weighting classes were formed from the deciles of the propensity score for CONUS. For OCONUS we formed five classes using the quintiles of the propensity scores.

For the completion adjustment stage, we formed the weighting classes using the results from the CHAID trees; the number of weighting classes was determined by the number of the terminal nodes in the CHAID trees. Because we observed little variation in the questionnaire-completion adjustment stage, the modeling was not necessary, and instead the weighting classes were formed directly from the CHAID trees.

In addition, we poststratified the nonresponse-adjusted weights to the frame totals to obtain specific domain weighted totals equal to population totals. The poststrata were defined by stratification variables—TNEX region, catchment area, and enrollment status, and were collapsed to form poststrata of sufficient size. Due to the possibly insufficient sample size constraint within each TNEX region, we stratified by catchment area only for those enrolled with military primary care manager. The poststratification adjustment factor for the h^{th} poststratum is defined as:

$$A_h^{PS} = \frac{N_h}{\sum_{i \in h} W_i^C}$$

where W_i^{C} is the nonresponse-adjusted weights, and N_h is the total number of beneficiaries in the DEERS frame associated with the h^{th} poststratum. We calculated the poststratified adjusted weight for the i^{th} sample record from the h^{th} poststratum by the following:

$$W_{hi}^{PS} = A_h^{PS} \times W_i^C$$

Therefore, when summed over all respondents in poststratum h, the poststratified weights now total N_h .

Lastly, we evaluated the weights and trimmed some extreme weights to reduce excessive effect of extreme weights to variance inflation. Whenever some weights were trimmed, we re-poststratified the weights to produce the final survey weights.

5. Calculation of Combined Annual Weights

As a final step, we constructed a dataset combining the three consecutive quarterly data files. Because there were a total of 1015 late respondents who were not included in the Quarters I–II 2013 files, the first two quarters were re-weighted before they were merged into the combined annual dataset. The new Quarters I–II datasets contain the responses of respondents who "trickled" in past the deadline for the survey. After reweighting the Quarters I–II datasets, the Quarters I–II datasets and the Quarter III dataset were merged to form a combined annual dataset with data for all three quarters.

Because the combined annual dataset sample sizes are sufficiently large to provide statistically reliable estimates, users will be able to calculate survey estimates for subdomains, such as catchment areas (XCATCH). Construction of an appropriate annual weight will allow users to consider the combined data as the data from a single survey. Quarterly weights are still included so that users may continue to calculate quarterly estimates and retain the ability to combine any sequential three quarters into a combined data set.

The method used for combining the three quarters of data and calculating combined estimates assumes that the variance in estimates from one quarter to the next is merely due to sampling variation. That is, combined estimates can be calculated from the three independent samples by averaging the estimates for the three quarters. These combined estimates will, in fact, be more precise than the quarterly estimates because they average out the variation across quarters (For a further discussion, see Friedman, et al. 2002).

We calculated the final survey weight for each quarter within the combined dataset. Without the loss of generality, let us denote the current quarter by Q3. Then, the combined dataset would include the three quarterly datasets: Q1, Q2, and Q3. Let us denote quarterly final survey weights by WQ1, WQ2, and WQ3. To retain the sum of the weights from the combined data as the population count, we average the population over the three quarters, by rescaling each quarterly survey weight as follows in order to develop a combined annual weight:

$$(1) WCOM = q_i \times WQi$$

where q_i is between 0 and 1 with the constraint $q_1 + q_2 + q_3 = 1$. We can make the choice of the appropriate value for each of the q_i 's based on various assumptions. We have decided that each quarterly contribution to the annual weight should be equal and therefore the value of each q_i is as follows:

$$q_1 = 0.33$$
; $q_2 = 0.33$; $q_3 = 0.33$

Then, the weight for the combined annual data will be WCOM in (1).

The final data file retains the quarterly sampling stratum variables and quarterly weight as calculated using the response propensity (FWRWT) and the combined weights (CFWT). The file also contains an indicator variable for the quarters. From this combined dataset, one can calculate both combined data and revised quarterly estimates.

6. Calculation of Quarterly Jackknife Replicate Weights

Calculation of variance estimates in the HCSDB requires a design-based variance estimation technique that is available in most statistical software packages for analysis from a complex survey data, such as WesVarPC® (Brick et al. 1996), SUDAAN®, SAS/STAT® version 8 or higher, and STATA®. This technique requires sample design information, including the sampling weight and stratification information. As an alternative, a replication technique such as the Jackknife method can be used to calculate variance estimates. In the HCSDB, a series of jackknife replicate weights are calculated and attached to each beneficiary record in the database. In jackknife replication, deleting selected cases from the full sample generates the prescribed number of replicates.

To construct the quarterly HCSDB replicate weights, the quarterly file of sampled beneficiaries is first sorted in sample selection order in which the stratification variables are used in the sorting process. Next, 60 mutually exclusive and exhaustive systematic subsamples of the full sample are identified in the sorted file. A jackknife replicate is then obtained by dropping one subsample from the full sample. As each subsample is dropped in turn, 60 sets of jackknife replicates are produced. The weighting process after the modeling is applied to the full sample is then applied separately to each of the jackknife replicates to produce a set of replicate weights for each record. The propensity score modeling was skipped. Instead the weighting cells from the propensity scores from the full sample weight were adopted in the replicate weights construction. Then, a series of jackknife replicate weights (FWRWT1-FWRWT60) is attached to the final data in order to construct jackknife replication variance estimates. These replicate weights should be used to estimate variances of quarterly estimates.

7. Calculation of Annual Jackknife Replicates

Since 60 quarterly replicate weights are available in each quarter, 180 annual replicate weights(CFWT1 – CFWT180) were constructed as follows:

Figure 1: Construction of Annual replicate weights based on the quarterly replicate weights

1	4				
5	2	5			
	3				

1 - Q1 Replicate Weights

2 - Q2 Replicate Weights

3 - Q3 Replicate Weights

4 - Q1 Final weights

5 - Q2 Final weights

6 - Q3 Final weights

Each quarterly replicate weight was put into the data set as a form of block diagonal (1, 2, 3), and the quarterly final weights were put into the dataset for off-diagonal (4, 5, 6). This construction was based on the assumption that each quarterly sample was independent. The use of the quarterly final weights as the replicate weights for off-diagonal units in the dataset does not introduce variability into the variance. In fact, the replicate estimates from the off-diagonal are equal to the full sample estimate, because the replicate weights on the off-diagonal are same as the quarterly final weight. Thus, the values of variance factor $(\hat{\theta}_{hi} - \hat{\theta})^2$, i.e., the difference between the estimates calculated from the replicate r and that calculated on the basis of full sample, is zero for replicates with off-diagonal units only.

The general formula for the jackknife variance estimator in SUDAAN (RTI 2002) can be expressed as:

$$v_{Jack}\left(\hat{\theta}\right) = \sum_{h} \frac{N_h - D_h}{D_h R_h} \sum_{i} \left(\hat{\theta}_{hi} - \hat{\theta}\right)^2$$

where

 N_h is the number of PSUs or clusters within the stratum h,

 D_{i} is the number of PSUs or clusters deleted in creating the replicate,

 R_h is the number of replicates selected,

 $\hat{\theta}_{i}$ is the estimate of the parameter θ from the *i*-th replicate of the *h*-th stratum,

 $\hat{\theta}$ is the estimate based on the entire sample.



Chapter 3

Analysis

This chapter explains how the HCSDB variables were processed during the analysis phase of the project. It covers the procedures for calculating response rates, developing dependent and independent variables for the analysis and estimating the variance of the statistics.

A. RESPONSE RATES

In this section, we present the procedures for response rate calculations along with a brief analysis of response rates for domains of interest. Response rates for the 2013 HCSDB were calculated in the same way since 2006. The procedure is based on the guidelines established by the Council of American Survey Research Organizations (CASRO 1982) for defining a response rate.

1. Definition of Response Rates

In calculating response rates and related measures, we considered two different rates: *unweighted* and *weighted*. The unweighted version of the response rate represents the counted proportion of respondents among all sampled units, and the weighted version indicates the estimated proportion of respondents among all population units. When sampling rates across all strata are equal, these two approaches give the same result. However, the 2013 HCSDB used different sampling rates across strata. So, it is useful to show both "unweighted" and "weighted" response rates. We calculated these two response rates in the same way. As presented in Chapter 2, all sampled beneficiaries were completely classified into these four main (seven detailed) groups:

- Group 1 (G1-1): eligible and complete questionnaire returned;
- Group 1 (G1-2): eligible and incomplete questionnaire returned;
- Group 2: eligible and questionnaire not returned;
- Group 3 (G3-1): returned ineligible
- Group 3 (G3-2): ineligible at time of Altarum address update
- Group 4 (G4-1): eligibility unknown and locatable; and
- Group 4 (G4-2): eligibility unknown and unlocatable.

The unweighted counts reflect the number of sampled cases (n_i for Group i, where i =1,2,3,4), and the weighted counts reflect the estimated population size² (\hat{N}_i for Group i, where i =1,2,3,4) for the four main response categories.

These weighted and unweighted counts were also calculated for the subgroups G1-1, G1-2, G3-1, G4-1, and G4-2, where we denote the unweighted counts by $n_{1,1}$, $n_{1,2}$, $n_{3,1}$, $n_{4,1}$, and $n_{4,2}$, and the weighted counts by $\hat{N}_{1,1}$, $\hat{N}_{1,2}$, $\hat{N}_{3,1}$, $\hat{N}_{4,1}$, and $\hat{N}_{4,2}$. With these values, we calculated response rates as follows.

² The weighted sum of sampled units can be regarded as an estimated population size. The base weight (BWT) was used in calculating weighted counts, where BWT is the inverse of selection probability.

Response rates can be partitioned into two measures: the location rate and the completion rate. To calculate the location rate, we first estimated the number of Group 4 "located" beneficiaries who were expected to be eligible for the survey:

(1)

$$l = \left(\frac{n_1 + n_2}{n_1 + n_2 + n_{3,1}}\right) n_{4,1} \qquad \text{and} \qquad l_w = \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_{3,1}}\right) \hat{N}_{4,1}$$

where l and l_w are unweighted and weighted estimates of the number of "located" beneficiaries among Group 4. Then, the unweighted and weighted "location rates" are defined by:

(2)

$$LR = \frac{n_1 + n_2 + l}{n_1 + n_2 + n_4 \left(\frac{n_1 + n_2}{n_1 + n_2 + n_{3,1}}\right)} \quad \text{and} \quad LR_w = \frac{\hat{N}_1 + \hat{N}_2 + l_w}{\hat{N}_1 + \hat{N}_2 + \hat{N}_4 \left(\frac{\hat{N}_1 + \hat{N}_2}{\hat{N}_1 + \hat{N}_2 + \hat{N}_{3,1}}\right)}.$$

And the corresponding unweighted and weighted "completion rates" are defined by:

(3)

$$CR = \frac{n_{1,1}}{n_1 + n_2 + l}$$
 and $CR_w = \frac{\hat{N}_{1,1}}{\hat{N}_1 + \hat{N}_2 + l_w}$.

The final response rates in Equation (4) can be obtained by multiplying the location rate in Equation (2) by the completion rate in Equation (3).

(4)

$$FRR = LR \times CR$$
 and $FRR_{w} = LR_{w} \times CR_{w}$

In the definitions in Equations (1) through (4), the subscript "w" indicates that all calculations involve weighted counts. The method used to calculate response rates is consistent with the CASRO quidelines.

2. Reporting

We examined response rates to identify patterns across different domains or characteristics. While analysts prefer weighted rates that reflect the estimated proportion of respondents among all population beneficiaries, operational staff often is interested in getting unweighted measures. All tables include unweighted and weighted values under columns headed "RR" and "RR_w", respectively. In the following, we focus on discussing unweighted response rates for domains of interest.

Table 3.1 includes overall response rates for the 2013 HCSDB for Quarters I-III, separate and combined. It also contains response rates by beneficiary groups, and by enrollment status:

- Overall: The overall unweighted response rate for the combined 2013 Adult HCSDB was 17.6 percent (which is found in Table 3.1 in the row of "Overall"). This rate is slightly lower than 20.1 percent rate achieved in the combined 2012 Adult HCSDB.
- Beneficiary group and enrollment status: All response rates calculated by beneficiary group and enrollment status show similar patterns to the 2012 survey, i.e., active duty beneficiaries and their family members had the lowest response rates and beneficiaries 65 years and older had the highest rate.³
- The response rates for the first two quarters include late respondents (respondents whose survey "trickled-in" after the deadline).

TABLE 3.1

RESPONSE RATES OVERALL AND BY ENROLLEE BENEFICIARY GROUP: QUARTERS I-III, 2013

	Q1 2013		Q2 2013		Q3 2013		COMBINED	
	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
Overall	19.4	36.0	17.1	32.8	16.2	30.9	17.6	33.2
Active Duty	13.9	11.7	12.6	10.5	13.3	11.3	13.3	11.1
Active Duty fam, Prime, civ PCM	13.4	13.2	13.2	13.1	10.9	10.9	12.5	12.4
Active Duty fam, Prime, mil PCM	14.1	14.4	12.6	11.9	11.0	10.6	12.6	12.3
Active Duty fam,non-enrollee	10.7	10.5	9.1	9.2	8.8	9.6	9.6	9.8
Retired,<65,civ PCM	39.0	40.1	36.2	36.9	30.1	31.0	35.1	36.0
Retired,<65,mil PCM	37.7	38.5	30.8	32.2	28.5	29.1	32.3	33.3
Retired,<65,non-enrollee	31.9	35.7	27.3	31.0	24.6	28.5	27.9	31.7
Retired,65+,enrollee	66.0	66.4	61.5	61.4	66.0	66.2	64.4	64.6
Retired,65+,non-enrollee	67.2	67.2	62.7	62.6	59.5	59.3	63.1	63.0
TRICARE Reserve Select	17.0	17.0	14.5	14.5	14.9	14.9	15.5	15.4

RR = Weighted $RR_w = Unweighted$

Appendix D (Response Rate Tables) contains tables showing unweighted and weighted response rates for all three quarters and the combined annual dataset. We summarize results about unweighted response rates for selected domains as follows:

- TNEX Regions: Combined response rates across regions range from 14.9 percent for Overseas to 20.8 percent for North (Table D.9).
- Sex: Combined response rate for men is 17.5 percent as compared to 17.6 percent for women. (Table D.3).
- CONUS: Combined response rate for Western Pacific is 13.3 percent as compared to 19.1 percent for Latin America. (Table D.2).
- Catchment areas: Combined response rates across catchment areas range from 8.2 percent for Guthrie AHC-Ft. Drum to 35.4 percent for Walter Reed AMC-Washington DC. (Table D.6).

³ However, response patterns vary considerably across beneficiary and enrollment groups. The relatively low level of response for active duty persons and their family members could be due to frequent relocations and our inability to receive new addresses in a timely manner.

- Beneficiary groups by sex: Women respond at a higher rate than men for both Active Duty and Active Duty family members, 15.9 percent versus 12.8 percent and 12.2 percent versus 6.7 percent, respectively. The opposite pattern emerges for retirees, survivors and family members 65 and older, 59.2 percent for women versus 67.7 percent for men. The response rates for retirees less than 65 are 32.2 for men vs 29.5 for women. (Table D.11).
- Beneficiary group by service affiliation (Army, Navy, Air Force, Marine Corps, Coast Guard, Other/Unknown): Among service affiliations, the smallest combined response rate comes from Active Duty in the Marine Corps with 6.7 percent and the largest from retired beneficiaries over 65 from Air Force with 65.3 percent (Table D.12).

B. VARIANCE ESTIMATION

Due to the complex sample design, variance estimation for the 2013 HCSDB is not simple, and may be most easily achieved using one of two methods. The first, the Taylor series linearization via SUDAAN (Shah et al. 1996) or SAS/STAT version 8 or higher, is a direct variance estimation method, which may be used to calculate the standard errors (the square root of the variance) of estimates. For the 2013 HCSDB analyses, we used the Taylor series linearization method. For analysts who prefer a replication method of variance estimation, replicate weights for jackknife replication are provided in the public use file. This section details the two approaches to calculating variance estimates of the characteristics of interest associated with the 2013 HCSDB.

1. Taylor Series Linearization

Mathematica uses Taylor series linearization to produce standard errors for the estimates from the 2013 HCSDB. For most sample designs, including the 2013 HCSDB, design-based variance estimates for linear estimators of totals and means can be obtained with explicit formulas. Estimators for nonlinear parameters, such as ratios, do not have exact expressions for the variance. The Taylor series linearization method approximates the variance of a nonlinear estimator with the variances of the linear terms from the Taylor series expansion for the estimator (Woodruff 1971). To calculate variance estimates based on the Taylor series linearization method, given HCSDB's stratified sampling design, we need to identify stratum as well as the final analysis weight for each data record. We included these variables on the final database. For variance estimation, we use the general-purpose statistical software package SUDAAN to produce Taylor series variance estimates. SUDAAN is the most widely used of the publicly available software packages based on the Taylor series linearization method. In SUDAAN, the user specifies the sample design and includes the stratum variables and the analysis weight for each record. Unlike WesVarPC, SUDAAN allows for unlimited strata, so stratification effects can be incorporated in calculating standard errors.

2. Jackknife Replication

Resampling methods are often used in estimating the variance for surveys with complex designs. In resampling, the sample is treated as if it was a population, and many smaller samples are drawn from the original sample (Lohr 1999, pages 298-308). The subsamples are then used to compute the variance. Replication methods have been recommended for surveys in which the sample design is complex, nonresponse adjustments are needed, and statistics of interest are complicated. In such surveys, the usual design-based estimation formula is extremely difficult or impossible to develop (see, for example, Wolter 1985, pages 317-318). Jackknife replicate weights can be used to calculate the standard errors of estimates. An estimate of a characteristic of interest is calculated (with the same formula as the full sample estimate) using each set of replicate weights; these replicate estimates are used to derive the variance of the full sample statistic.

The jackknife variance of the full sample statistic of interest is estimated from the variability among the replicated estimates. When the replicate weights are produced according to the above procedure, jackknife replicate standard errors can be produced using custom written software or publicly available statistical software. For instance, WesVarPC® (Brick et al. 1996) is a popular software package that calculates standard errors based on replication methods. It produces standard errors for functions of survey estimates such as differences and ratios as well as simple estimates such as means, proportions, and totals. Additional details about the jackknife replication approach are given in Wolter (1985). Like other replication methods, the jackknife variance estimation can be easily implemented for any form of estimate without further algebraic work.

C. SIGNIFICANCE TESTS

In certain charts in the adult report cards and the "Health Care Survey of DoD Beneficiaries: Annual Report", statistical testing is done to show which columns of the chart (values of the independent variable) are statistically different from all CONUS regions as a whole. Positional arrows show if a region is statistically better than the CONUS regions (an arrow pointing up) or statistically worse than the CONUS regions (an arrow pointing down); if there is no arrow, there is no statistical difference.

The null hypothesis for this significance test is that the mean for the column is essentially equal with the CONUS mean, and the alternative is that the mean for the column is different from the CONUS mean. That is, we are testing:

$$H_0$$
: $\mu_1 = \mu_2$ vs. H_a : $\mu_1 \neq \mu_2$

For instance, μ_1 might represent the characteristic of interest for the active duty group while μ_2 might represent the same characteristic for all CONUS regions.

With large sample sizes, the estimator y_1-y_2 is approximately distributed as a normal distribution with mean zero and variance $\sigma_{y_1-y_2}^2$ under the null hypothesis. In testing the hypothesis, a test statistic T is thus calculated as:

$$T = \frac{\overline{y_1} - \overline{y_2}}{\hat{\sigma}_{\overline{y_1} - \overline{y_2}}}.$$

With α = 0.05, the null hypothesis should be rejected if |T| > 1.96. The denominator of T, the standard error of $\overline{y_1} - \overline{y_2}$, can be calculated as the square root of the variance estimator $\hat{\sigma}_{\overline{y_1-y_2}}^2$:

$$\hat{\sigma}_{\overline{y_1-y_2}}^2 = \operatorname{var}(\overline{y_1}) + \operatorname{var}(\overline{y_2}) - 2\operatorname{cov}(\overline{y_1}, \overline{y_2}).$$

If y_1 and y_2 are independent, then the covariance term equals zero and thus the variance estimator can be easily obtained as the sum of two individual variance estimators. However, there are some cases in which the condition of independence does not hold. For example, active duty MTF group is not independent with the CONUS regions because these two domains share active duty group within the CONUS regions. So the covariance term should be incorporated in calculating the variance estimator of the estimator of the difference. With suitable algebra and program modification, these covariance terms were calculated for all such cases. All detailed programs are included in Appendix G.

D. DEMOGRAPHIC ADJUSTMENTS

All scores in the TRICARE Beneficiary Reports are adjusted for patient characteristics affecting their scores. Scores can be adjusted for a wide range of socioeconomic and demographic variables.

The purpose of risk adjustment is to make comparisons of outcomes, either internally or to external benchmarks, that control for characteristics beyond the health care provider's control. Based on previous work with satisfaction scales derived from Consumer Assessment of Healthcare Providers and Systems (CAHPS) Health Plan Survey, it appears that satisfaction increases with age and decreases with poor health across social classes and insurance types. Besides, controlling for these factors, the methodology used does the following:

- Permits risk-adjusted comparisons among regions and catchment areas within and across beneficiary and enrollment groups
- Permits testing the hypothesis that the difference in risk-adjusted scores between a region or catchment area and a benchmark is due to chance
- Is appropriate for CAHPS composites and global satisfaction ratings.

The methodology used is an adaptation of that found in CAHPS 2.0 Survey and Reporting Kit (DHHS, 1999).

The model used for this adjustment is:

$$Y_{ijkl} = \beta_{1l}A_{1l} + \beta_{2l}A_{2l} + ... + \beta_{5l}A_{5l} + \beta_{6l}P_l + \varepsilon_{ijkl},$$

where Y_{ijkl} is a dependent variable, β_{ql} 's are parameters to be estimated, A_{ql} 's are age dummy variables ($A_{ql} = 1$ if the beneficiary is in age group q, and 0 otherwise; $A_l = \text{age } 18-24$, $A_2 = \text{age } 25-34$, $A_3 = \text{age } 35-44$, $A_4 = \text{age } 45-54$, $A_5 = \text{age } 55-64$), P_l is health status. The subscripts i, j, k and l refer to the service/region, MTF, beneficiary, and beneficiary's enrollment group, respectively.

Given 24 region and service combinations and J+1 catchment areas, the specifications that we use are:

$$\varepsilon_{iikl} = \delta_{0l} + \delta_{1l} R_{1l} + \delta_{2l} R_{2l} + \dots + \delta_{24l} R_{24l} + w_{iikl},$$

where R_i 's are service/region dummy variables ($R_{ii} = 1$ if the beneficiary is in service/region i and beneficiary group I, and 0 otherwise), and

$$\varepsilon_{ijkl} = \gamma_{0l} + \gamma_{1l} H_{1l} + \gamma_{2l} H_{2l} + \ldots + \gamma_{Jl} H_{Jl} + w_{ijkl} \,, \label{eq:epsilon_spectrum}$$

where H_{ij} 's are catchment area dummy variables ($H_{jl} = 1$ if the beneficiary is in catchment area j and beneficiary group l, and 0 otherwise). The first specification is used when catchment area values are not reported, and the second when catchment areas are reported.

The methods for calculating demographically adjusted values and testing hypotheses of differences in demographically adjusted scores among geographic areas vary with the way ε_{ijkl} is defined. For specification 1, the adjusted mean of the dependent variable Y for region i can be obtained as:

$$\overline{y_i} = \hat{\delta}_0 + \hat{\delta}_i + \hat{\beta}_1 \hat{A}_1 + \hat{\beta}_2 \hat{A}_2 + ... + \hat{\beta}_5 \hat{A}_5 + \hat{\beta}_6 \hat{P}$$

where $\hat{\beta}_i$'s are estimated model parameters, \hat{A}_i 's are weighted proportions of age group i among the total U.S. population, and \hat{P} is the weighted MHS mean of the variable P. For beneficiary group I, the adjusted regional value is:

$$\overline{y_{ij}} = \hat{\delta}_{0l} + \hat{\delta}_{il} + \hat{\beta}_{1l}\hat{A} + \hat{\beta}_{2l}\hat{A}_{2l} + ... + \hat{\beta}_{5l}\hat{A}_{5l} + \hat{\beta}_{6l}\hat{P}_{l}$$

where $\hat{A}_{\it ql}$'s are weighted proportions of age group $\it q$ in the MHS.

For specification 2, an adjusted catchment area value can be calculated as:

$$\overline{y_{iil}} = \hat{\gamma}_{0l} + \hat{\gamma}_{iil} + \hat{\beta}_{1l}\hat{A}_{1l} + \hat{\beta}_{2l}\hat{A}_{2l} + ... + \hat{\beta}_{5l}\hat{A}_{5l} + \hat{\beta}_{6l}\hat{P}_{l},$$

while the regional value is calculated using specification 1.

Standard errors then can be estimated as the standard error of residuals for catchment areas or regions using SUDAAN. These standard errors can be used in hypothesis tests comparing adjusted values to other adjusted values or to external benchmarks. Composite values are calculated as averages of regional or catchment area adjusted values for questions making up the composites, in which each question is equally weighted.

Benchmarks can also be adjusted for age and health status as are scores taken from survey responses. If the benchmark data set contains age and health status information, we fit a model of the form

$$y = \alpha + \beta_1 A_1 + \beta_2 A_2 + ... + \beta_5 A_5 + \beta_6 P$$

where the A's are age groups and P is health status. Then the adjusted benchmark is

$$\hat{y}_{l} = \hat{\alpha} + \hat{\beta}_{1} \overline{A}_{ll} + \hat{\beta}_{2} \overline{A}_{2l} + ... + \hat{\beta}_{5} \overline{A}_{5l} + \hat{\beta}_{6} \overline{P}_{l}$$

using the mean values of A and P for beneficiary group I.

The adjusted values for that beneficiary group can then be compared to a benchmark appropriate for their age distribution and health status.

In some cases, it may be desirable for a single benchmark to be presented in comparison to many beneficiary groups. We accomplish this by recentering scores for beneficiary groups. In the Beneficiary Reports, described below, the benchmark presented is the all-users beneficiary group, but scores for many other beneficiary groups are also presented. Each score and benchmark is calculated for the appropriate beneficiary group. Then a recentering factor for each beneficiary group is calculated as the difference in adjusted benchmarks between a beneficiary group and the all-users group. For the all-users group, that recentering factor is zero. The recentering factor is added to the score for each region or catchment area for that beneficiary group. Thus beneficiary groups can also be compared controlling for age and health status and can be compared to the same benchmark.

E. CALCULATING SCORES

Beneficiary Reports (see below) include four types of scores: CAHPS composites, ratings, a preventive care composite, and a healthy behaviors composite.

Composites and Ratings

The preventive care composite is calculated as $P_i = \sum w_i r_i$, where w is the proportion of the eligible population for whom the preventive care measure is relevant and r is the proportion of that eligible group receiving preventive care.

CAHPS composites are calculated as

$$S_i = (1/n_i) \Sigma(q_i/k_i)$$

where n_i is the number of questions in the composite i, q_j is the number giving a favorable response to question j in the composite i, and k_j is the number responding to that question j. CAHPS ratings are calculated as

$$S_i=q_i/k_i$$

where q_i is the number giving a favorable response and k_i is the (weighted) number responding to rating i. All scores are adjusted for age and health status (see above).

F. TESTS FOR TREND

In the Beneficiary Reports (see below), we use linear regression to estimate a quarterly rate of change and test it for statistical significance. Our estimate for the rate of change, T, is

$$T = \sum_{t=1}^{4} w_t (S_t - \overline{S})(t - \overline{t}) / \sum_{t=1}^{4} w_t (t - \overline{t})^2,$$

where t is the quarter, S_i is the score and w_i is the total weight of quarter i's observations. In order to test the hypothesis that trend is zero, we use the standard error for the trend coefficient

$$\sigma = \frac{\sqrt{\sum_{t=1}^{4} w_t^2} \sigma_t^2}{\sum_{t=1}^{4} w_t}, \text{ and }$$

$$S = \sigma / \sqrt{\sum_{t=1}^{4} w_{t} (t - \overline{t})^{2} / \sum_{t=1}^{4} w_{t}}$$

where σ_t is the standard error for quarter t. The hypothesis test is based on a t-test of the hypothesis that T=0, where n is the total number of observations for all 3 quarters p=Prob(abs(T/S)>0,n).

G. DEPENDENT AND INDEPENDENT VARIABLES

Dependent, or outcome, variables represent the research questions the survey is designed to answer. For example, beneficiary satisfaction and access are dependent variables in this analysis. The research questions are listed in Chapter 1. Generally, dependent variables form the rows of the tables and the vertical axis of the charts.

Independent, or explanatory, variables do not directly represent research questions, but they may help to explain the differences in one or more of the outcome variables. They may also be

correlated with one or more dependent variables. For example, a beneficiary's satisfaction with health care may be correlated with their age and/or TRICARE Prime enrollment status. Each table is designed to help determine whether a particular dependent variable is correlated with a particular independent variable. Independent variables form the columns of the tables and the horizontal axis of the charts.

In analyzing the relationship between dependent and independent variables, Mathematica produced charts and tables that are found in the reports described below. Beginning with the HCSDB in a SAS format, Mathematica programmers developed SAS procedures such as PROC FREQ and PROC MEANS and SAS-callable SUDAAN procedures such as PROC DESCRIPT and PROC CROSSTAB to generate the relevant statistics (e.g., per cents, means, and standard errors). These statistical values were moved directly from SAS programs to Excel tables using a dynamic data exchange to populate the cells of the tables. Graphical displays were generated from table values wherever feasible.

H. REPORTS

This section lists the three types of reports produced and states the main purpose of each report: 2013 TRICARE Beneficiary Reports, the TRICARE Consumer Watch, and the "Health Care Survey of DoD Beneficiaries: Annual Report." The 2013 TRICARE Beneficiary Reports and the TRICARE Consumer Watch are presented on a quarterly basis and display results from the most recent quarter. The "Health Care Survey of DoD Beneficiaries: Annual Report" is produced annually and describes findings from all three quarters of survey data.

1. 2013 TRICARE Beneficiary Reports

a. Purpose

The purpose of the Beneficiary Reports is to provide TRICARE Regional offices, services and MTF commanders with a comprehensive description of TRICARE beneficiaries' satisfaction with care, access to care, and use of preventive care, in comparison with other regions and catchment areas, and with relevant national benchmarks. MHS scores are adjusted using demographic characteristics. Both quarterly and annual Beneficiary Reports are produced. The quarterly reports present results from the most recent quarter for each region, service and for CONUS MHS by beneficiary status and enrollment group, making it easy for the reader to compare findings across groups and quarters. The annual report is a cumulative report that combines results from this year's three quarters and full files from previous years presenting results by catchment area, region, and service.

b. Beneficiary Report Production

1. Content

The quarterly Beneficiary Report presents 12 scores for all beneficiary groups and all enrollment groups by region and CONUS MHS overall. Scores are presented in the following areas: getting needed care; getting care quickly; courteous and helpful office staff; how well doctors communicate; customer service; claims processing; rating of the health plan, health care, personal doctor, and specialist; healthy behavior; and preventive care standards. The first 6 scores are CAHPS composites, which group together responses to several related survey questions. The CAHPS composite questions are shown in Appendix E. The scores are presented in relation to national benchmarks.

The four ratings of health care and health care providers are health plan, health care, personal doctor, and specialist. Each rating is based on a scale of 0 to 10, where 0 is the worst and 10 is the best. The scores are adjusted for patient age and health status and are presented relative to national benchmarks.

The TMA Standard Composite for preventive care is based on how beneficiaries compare preventive care services offered through the MHS with the Healthy People 2020 goals. Preventive care indicators include prenatal care, hypertension, mammography, and Pap smears.

Healthy behavior combines the non-smoking rate, the rate at which smokers are counseled to quit, and the percent non-obese.

2. Format

a. Programming Specifications

Data for the Beneficiary Reports is arranged in a SAS data set, consisting of records indexed by region, service, catchment area, enrollment group, beneficiary category, and table column. Records contain scores and categorical variables showing the existence and directions of significant differences. The benchmark record contains national mean values, where available, for a comparable non-MHS population.

Data files serve as the basis for the electronic reports and quality assurance. The file for the quarterly Beneficiary Reports is updated each quarter and referenced by the report card application. In each quarter, a separate file is created. The quarterly and annual Beneficiary Reports are coded in HTML and a program generates the information in the form of a data set corresponding to the cells in the tables of the reports described below. Appendix G contains the programs to generate the Beneficiary Reports.

b. Web Specifications

Quarterly Beneficiary Reports are published in a tabular, interactive, HTML format on TRICARE's website, allowing users to "drill down" in the reports to follow the performance of the MHS over time by enrollment status and beneficiary group. Each report consists of several pages of tables. The first set of tables presents the findings for a single quarter for all enrollment and beneficiary groups by region and CONUS MHS. A second set of tables presents the findings for the current quarter and for the past quarters for each enrollment and beneficiary group, by regions and CONUS MHS. Significant differences between the scores and the benchmark are indicated by color, bolding and italics. Scores significantly above the benchmark are green and bold. Scores significantly below the benchmark are red and italicized.

Like the quarterly report, the annual report is presented in HTML tabular format. One set of tables shows cumulative scores for the 2013 HCSDB by region for all beneficiary groups and enrollment groups. Another set shows scores for the questions that make up the composite, and a third set shows composites or ratings from prior years. The fourth set of tables shows scores for the catchment areas that make up the MHS regions.

2. TRICARE Consumer Watch

a. Purpose

Like the TRICARE Beneficiary Reports, the TRICARE Consumer Watch is targeted to TRICARE Regional offices, services and MTF commanders. TRICARE Consumer Watch presents key results from the quarterly HCSDB in a graphical format. The exhibits present TRICARE beneficiaries' experiences with their health care and health plan and utilization rates for preventive services. The TRICARE Consumer Watch is produced on a quarterly basis for all regions and

three service affiliations. In the final quarter, the TRICARE Consumer Watch is produced for all catchment areas.

Two versions of the quarterly TRICARE Consumer Watch are produced: one for all Prime Enrollees, and one comparing beneficiaries who are enrolled to military facilities (direct care users) with those who rely on civilian care financed by TRICARE through Prime or Standard/Extra (purchased care users).

b. 2013 TRICARE Consumer Watch Production

1. Content

The Consumer Watch contains graphs presenting four ratings and six composite scores. These graphs are based on data from the Beneficiary Reports. Beneficiaries are asked to rate their experiences with their health care and health plan, and their personal provider on a scale of 0 to 10 where 0 is the worst and 10 is the best. Composite scores evaluate beneficiaries' experiences with the following: getting needed care, getting care quickly, courteous and helpful office staff, how well doctors communicate, customer service, and claims processing. Using data from the National CAHPS Benchmarking Database (NCBD), ratings and composites are compared to experiences of individuals in civilian health plans. Ratings and composites are also compared to results from previous surveys.

Utilization of preventive care services are measured against the goals established by Healthy People 2020 as well as results from the prior years. Preventive care indicators include preventive cancer screenings, such as mammography and Pap smears, hypertension screening, and prenatal care. Preventative care also includes a non-smoking rate and the percentage of smokers counseled to quit.

2. Format

a. Programming Specifications

Data for the Consumer Watch is arranged in a SAS data set, and consists of records indexed by region, catchment area, enrollment group, and beneficiary category. Scores for the rating and composite graphs utilize the same programs as the TRICARE Beneficiary Reports. The data file for the Consumer Watch is updated each quarter. The programs to generate the Consumer Watch are in Appendix H.

b. Report Production Specifications

Though the Consumer Watch files reside on TRICARE's website, it is designed to be used primarily in print form. The reports are created in portable document format (PDF). The Consumer Watch is arranged on two pages; the key findings are presented as bar graphs. Preventive care scores are presented in table format.

3. "Health Care Survey of DoD Beneficiaries: Annual Report"

a. Purpose

The purpose of the "Health Care Survey of DoD Beneficiaries: Annual Report" is to provide OASD(HA), in general, and TMA, in particular, with a comprehensive national summary of the HCSDB findings. The "Health Care Survey of DoD Beneficiaries: Annual Report" bar charts reflect survey data from all respondents in the domestic MHS and incorporates data from the adult HCSDB for 2013 and previous years.

b. Procedures for Report Production

1. Content

The content will reflect areas relevant for policy makers, and may vary from year to year. Possible topics include choices of health plan and sources of health care, access to care, and satisfaction with care.

2. Programming Specification

Programs for calculation of the statistics appearing in the report are written in SAS-callable SUDAAN. Means and proportions and their standard errors are calculated using PROC DESCRIPT. Tests for linear trends are performed using PROC REGRESS or PROC RLOGIST. Values are compared with benchmarks from the National CAHPS Benchmarking Database. The benchmarks are readjusted for age and health status using the methods described in Chapter 3, Section D above.

3. Report Production

Numbers and text are presented using publishing software following models developed by importing SUDAAN results into Excel as a text file. Results in the finished report are compared with their Excel models for accuracy. Methods used in the Annual Report are also described in the "Health Care Survey of DoD Beneficiary: Annual Report."

References

- Biggs, D., B. de Ville, and E. Suen. "A Method of Choosing Multiway Partitions for Classification and Decision Trees." *Journal of Applied Statistics*, vol. 18, 1991, pp. 49-62.
- Brick, J.M. and G. Kalton. "Handling Missing Data in Survey Research." Statistical Methods in Medical Research 1996; 5: 215-238.
- Brick, J.M., P. Broene, P. James, and J. Severynse. A User's Guide to WesVarPC. Version 2.0. Rockville, MD: Westat, Inc., 1996.
- Carlson, Barbara Lepidus and Stephen Williams. "A Comparison of Two Methods to Adjust Weights for Non-response: Propensity Modeling and Weighting Class Adjustments." 2001 Proceedings of the American Statistical Association, Survey Research Methods Section [CD-ROM]. Alexandra, VA: American Statistical Association.
- CASRO. "On the Definition of Response Rates." A Special Report of the CASRO Task Force on Completion Rates, Lester R. Frankel, Chairman, and published by the Council of American Survey Research Organizations, June, 1982.
- Friedman, Esther M., Don Jang, and Thomas V. Williams, (2002). "Combined Estimates From Four Quarterly Survey Data Sets." 2002 Proceedings of the American Statistical Association, Survey Research Methods Section [CD-ROM]. Alexandria, VA: American Statistical Association.
- Holt, D. and T.M.F. Smith "Post Stratification." Journal of the Royal Statistical Society, A, 42, 1979, pp. 33-46.
- Kalton, Graham and Dalisay S. Maligalig. "A Comparison of Methods of Weighting Adjustments for Nonresponse." 1991 Annual Research Conference, March 17-20, 1991, pp.409-428
- Lessler, J.T., and W.D. Kalsbeek. Nonsampling Errors in Surveys. New York: John Wiley & Sons, 1992.
- Little, Roderick J. and Sonya Vartivarian. "On Weighting the Rates in Non-response Weights." Statistics in Medicine, vol. 22, 2003, pp.1589-1599.
- Lohr, S.L. Sampling: Design and Analysis. Brooks/Cole Publishing. Pacific Grove, CA: 1999.
- Mathematica Policy Research, Inc. "Health Care Survey of DoD Beneficiaries: 2013 Adult Sampling Report" Report submitted to the TRICARE Management Activity. Washington, DC: Mathematica, 2013.
- Oh, H.L. and Fritz Scheuren. "Weighting Adjustments for Unit Nonresponse." In Incomplete Data in Sample Surveys, vol. 2: Theory and Bibliographies, edited by W.G. Madow, I. Olkin, and D. Rubin. New York: Academic Press, 1983.
- Rizzo, Lou, Graham Kalton, Mike Brick, and Rita Petroni. "Adjusting for Panel Nonresponse in the Survey of Income and Program Participation." 1994 Proceedings of the American Statistical Association, Survey Research Methods Section. Alexandria, VA: American Statistical Association.
- RTI. SUDAAN User's Manual, Research Triangle Park, NC: Research Triangle Institute, 2002.
- Shah, B.V., B.G. Barnwell, and G.S. Bieler. *SUDAAN User's Manual*. Release 7.0. Research Triangle Park, NC: Research Triangle Institute, 1996.
- U.S. Department of Health and Human Services. *CAHPS 2.0 Survey and Reporting Kit.* Rockville, MD 1999.

- U.S. Department of Health and Human Services. *CAHPS 4.0 Survey and Reporting Kit.* Rockville, MD 2008.
- Vartivarian, Sonya and Roderick J. Little "Weighting Adjustments for Unit Nonresponse with Multiple Outcome Variables." 2003 Proceedings of the American Statistical Association, Survey Research Methods Section [CD-ROM]. Alexandra, VA: American Statistical Association.
- Wolter, Kirk M. Introduction to Variance Estimation. New York: Springer-Verlag. 1985.
- Woodruff, R.S. "A Simple Method for Approximating the Variance of a Complicated Estimate." Journal of the American Statistical Association, 66, 1971, pp. 414-414.

$\label{eq:Appendix A} \textbf{Annotated Questionnaire} - \textbf{Quarter I}$

PAGE IS INTENTIONALLY LEFT BLANK TO	ALLOW FOR DOUBLE-SIDED COPYING









Health Care Survey of DoD Beneficiaries

A world-wide survey of beneficiaries eligible for health care coverage through the military health system

October 2012

According to the Privacy Act of 1974 (5 U.S.C. §552a), the Department of Defense is required to inform you of the purposes and use of this survey. Please read it carefully.

Authority: 10 U.S.C. §1074 (Medical and Dental Care for Members and Certain Former Members, as amended by National Defense Authorization Act of 1993, Public Law 102-484, §706); 10 U.S.C. §1074f (Medical Tracking System for Members Deployed Overseas); 32 C.F.R. §199.17 (TRICARE Program); 45 C.F.R. Part 160 Subparts A and E of Part 164 (Health Insurance Portability and Accountability Act of 1996, Privacy Rule); DoD 6025.18-R (Department of Defense Health Information Privacy Regulation); DoD 6025.13-R (Military Health System Clinical Quality Assurance Program Regulation); 64 FR 22837 (DHA 08 – Health Affairs Survey Data Base, April 28, 1999); and, E.O. 9397 (as amended, November 20, 2008, for SSN collection).

Purpose: This survey helps health policy makers gauge beneficiary satisfaction with the current military health care system and provides valuable input from beneficiaries that will be used to improve the Military Health System.

Routine Uses: None.

Disclosure: Participation is voluntary. Failure to respond will not result in any penalty to the respondent. However, maximum participation is encouraged so that data will be as complete and representative as possible.

YOUR PRIVACY

Your participation in this survey effort is very important. Your responses are confidential and your participation is voluntary. The number on the back of this survey is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

This is your opportunity to tell officials of your opinions and experiences with the current military health care system. It is also an opportunity to provide feedback and identify areas where improvements are needed.

The survey processing center removes all identifying information before sending the results to the Department of Defense.

Your information is grouped with others and no individual information is shared. Only group statistics will be compiled and reported. No information about you as an individual will be disclosed.

SURVEY INSTRUCTIONS

Answer all the questions by marking an "X" in the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

Yes → Go to Question 1

Please return the completed questionnaire in the enclosed postagepaid envelope within <u>seven days</u>. If the envelope is missing, please send to:

> Office of the Assistant Secretary of Defense (Health Affairs) TMA/DHCAPE c/o Synovate Survey Processing Center PO Box 5030 Chicago, IL 60680-4138

SURVEY STARTS HERE

As an eligible TRICARE beneficiary, <u>please complete this survey</u> even if you did not receive your health care from a military facility.

Please recognize that some specific questions about TRICARE benefits may not apply to you, depending on your entitlement and particular TRICARE program.

This survey is about the health care of the person whose name appears on the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to that person.

1. Are you the person whose name appears on the cover Percent of letter? H13001 Responses **99.6%** □ Yes → Go to Question 2 0.4% 2 **I** No → Please give this questionnaire to the person addressed on the cover letter. 2. By which of the following health plans are you currently covered? H13002A-H13002U MARK ALL THAT APPLY. Military Health Plans 48.8% A ☐ TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas) 12.5% | □ TRICARE Extra or Standard (CHAMPUS) 1.2% N ☐ TRICARE Plus 27.7% ○ □ TRICARE for Life 0.7%

 IP □ TRICARE Supplemental Insurance

 2.2% ☐ TRICARE Reserve Select 1.6% TRICARE Retired Reserve 0.6% TRICARE Young Adult 0.2% Continued Health Care Benefit Program (CHCBP) (a COBRA-like premium-based health care program) **Other Health Plans** 28.6% F ☐ Medicare 2.8% G ☐ Federal Employees Health Benefit Program (FEHBP) 1.2% н <a> Medicaid 2.0% □ A civilian HMO (such as Kaiser) 9.4% □ Other civilian health insurance (such as Blue Cross) 1.1% K ☐ Uniformed Services Family Health Plan (USFHP)

^M □ The Veterans Administration (VA)

the US

4.1% | L □ Not sure

R Government health insurance from a country other than

7.0%

0.2%

3.		ich health plan did you Ith care in the last 12 r			nost	of your
Percent of Responses	11/14	RK ONLY ONE ANSWE	R.	H13003	3	See Note 1_0
46.2%	1 🗖	TRICARE Prime (incluand TRICARE Oversed		TRICARE	Prime	e Remote
8.5%	3 🔲	TRICARE Extra or Star		d (CHAMPI	JS)	
1.1%	11 🔲	TRICARE Plus		`	,	
1.9%	12 🔲	TRICARE Reserve Sel	ect			
0.7%	14 🔲	TRICARE Retired Rese	erve	!		
0.3%	15 🔲	TRICARE Young Adult				
0.0%	16 🔲	Continued Health Care	Ве	nefit Progran	n (CI	НСВР) <i>(а</i>
	! ! !	COBRA-like premium-	ase	ed health ca	re pr	ogram)
23.4%	4 🔲	Medicare (may include	TR	CARE for L	ife)	
1.7%	5 🔲	Federal Employees He	alth	Benefit Pro	gram	(FEHBP)
	6 🔲	Medicaid				
1.5%	7	A civilian HMO (such a	s K	aiser)		
6.6%	8 🔲	Other civilian health ins	ura	nce <i>(such a</i>	s Blu	e Cross)
0.9%	9 🔲	Uniformed Services Fa	mily	Health Plai	า (ปร	SFHP)
3.0%	10	The Veterans Administ	ratio	on (VA)		
0.1%	13 🔲	Government health ins the US	urai	nce from a c	ountr	ry other than
3.3%	-5					
	-6 🔲	Did not use any health	plaı	n in the last	12	
	 	months → Go to Que	stic	on 5		
		mainder of this question nyou indicated in Questi			nealth	n <u>plan</u> refers
4.	Hov	v many months or year	s ir	a row have	e yoı	u been in this
Percent of Responses	hea	Ith plan?		113004	ا ا	e Note 1_Q1
1.8%	1 🔲	Less than 6 months	•	Go to Que	estio	n 5
6.5%	2 □	6 up to 12 months		Co to Ou	actio	n 5

4. HO	w many months or yea	ars	in a row nave	e you been in this
Percent of hea	lth plan?		H13004	See Note 1_Q1
1.8% 1 🔲	Less than 6 months	→	Go to Que	estion 5
6.5% 2 	6 up to 12 months	→	Go to Que	estion 5
8.7% 3 	12 up to 24 months	→	Go to Que	estion 5
		→	Go to Que	estion 10
	o up to 10 jours	→	Go to Que	estion 10
<i>42.6</i> % 6 □	10 or more years	→	Go to Que	estion 10

PREVIOUS HEALTH PLAN

These questions ask about the health plan you used before your current plan. The term <u>previous health plan</u> refers to the plan you used for most of your health care prior to the plan you indicated in Question 3.

5. Which health plan did you use for all or most of your health care BEFORE YOUR CURRENT PLAN?

Percent of

Responses*	MA	RK ONLY ONE ANSWER.	
24.8%	1 🔲	TRICARE Prime (including TRICARE Prime	e Remote
10.2%	3 □	and TRICARE Overseas) TRICARE Extra or Standard (CHAMPUS)	S13AA01
	11	TRICARE Plus	See Note 1_Q
	12 🔲	TRICARE Reserve Select TRICARE Retired Reserve	See Note 1_AA
	15		
0.0%	16	Continued Health Care Benefit Program (C COBRA-like premium-based health care pr	
3.5%	4 🔲	Medicare (may include TRICARE for Life)	
3.5%	: =	Federal Employees Health Benefit Program	n (FEHBP)
	6 🔲	Medicaid	
	7 🔲	A civilian HMO (such as Kaiser)	
30.2%	i		The second second
0.4%	9 🔲	Uniformed Services Family Health Plan (US	SEHP)
	10	The Veterans Administration (VA)	
0.5%	13 🔲	Government health insurance from a count the US	ry other than
8.9%	-5 🔲	Not sure	
	-6	Did not use any health plan prior to current to Question 10	plan → <i>Go</i>

6.		ch of the following are reasons	s you <u>sw</u>	vitched from
Percent of Responses		<u>r PREVIOUS</u> health plan? RK ALL THAT APPLY.	S13AA	.02A-S13AA02W
	А 🔲	I lost my job		See Note 1_Q1
0.9%	ВП	My husband/wife/parent lost his	/her job	See Note 1_AA
12.5% 3.9%	С П	I changed jobs	ا ماداه	
	E	My husband/wife/parent change I retired from a job that provided		10
3.6%	F 🔲	My husband/wife/parent retired		,
3.076	' '	coverage	ii Uiii a ju	ib that provided
9.4%	G 🔲	Moved to a new area		
3.3%	н 🔲	I am in the Select Reserves and	became	e active
2.2%	· 🗆	My husband/wife/parent is in the	e Select	Reserves and
0.50/	. —	became active		
3.5%	1 🗖	I am a National Guard or Reserv	/e iviemb	er separating
2.0%	к 🔲	from active duty (deactivated) My husband/wife/parent is a Na	tional Cu	ard or Docorus
2.070	, · · L	Member separating from active		
		mornior soparating norm dollvo	auty (ao	aon ratou)
2.5%	L □	Employer changed plans		
0.7%	v П	Employer stopped providing hea	alth cove	rage
0.5%	м	My doctor or other health care p	rovider l	eft the plan
1.1%	N \square	I did not like the referral requirer		·
1.9%	∘ 🔲	I could not get appointments as	soon as	I wanted
1.6%	Р	I was dissatisfied with the plan's	custom	er service
6.9%	Q 🔲	Preferred new health plan, beca	use of lo	wer cost, better
	 - -	benefits or some other reason		
0.2%	R 🔲	It was difficult to find parking at t	the clinic	or doctor's
4 00/		office		
1.2%	s 🔲	I had to travel too far to get need	ded care	
14.2%	⊤ □	Married, divorced, or widowed		
14.3%	1	Became eligible for Medicare		
	 	J		
16 20/	w 🗖	Othor		

7.	Whi	ch of these reasons is the	- MΔIN rea	son vou si	witched	9.		en you switched to your CURI	RENT I	nealth plan, did
Percent of		n your PREVIOUS health				Percent of Responses	f you	need to change doctors?		S13AA05
Responses*		RK ONLY ONE.		<u> </u>	3AA03	39.3%	1 🔲	Yes, changed all doctors		See Note 1 O1
1.9%	1 🔲	I lost my job		I	lote 1_Q1		1	Yes, changed some doctors		See Note 1_Q1
0.4%	2 🔲	My husband/wife/parent lo	st his/her jo	Ob See No	ote 1_AA1	41.7%	. —	No		See Note 1_AA1
12.1%	3 🔲	I changed jobs			ie i_AA i	10.6%	-5	Don't know		
3.6%	4 🔲	My husband/wife/parent c					Υ	OUR HEALTH CARE IN THE L	AST 1	2 MONTHS
6.6% 3.7%	5 6 	I retired from a job that pro		•	ovidod					
3.7 /6	' ° 🗀	My husband/wife/parent recoverage	etireu irom a	ם נוטט נוומנ פו	ovided			estions ask about your own heal		
7.0%	7 🔲	Moved to a new area						got when you stayed overnight in		vital. Do <u>not</u>
								e times you went for dental care		
3.1%	8 🔲	I am in the Select Reserve	es and beca	me active		10.		he last 12 months, where did y	ou go	most often for
2.3%	9 🔲	My husband/wife/parent is	in the Sele	ct Reserve	s and	Percent of	,	ır health care?		H13005
0.00/	40.	became active				Responses		RK ONLY ONE ANSWER.		
2.8%	10	I am a National Guard or I from active duty (deactiva		ember sepa	rating	35.3%	1 🗖	A military facility – This include	s: Milit	ary clinic, Military
1.9%	11 🔲	My husband/wife/parent is	•	Guard or R	eserve			hospital, PRIMUS clinic, NAVO		
	_	Member separating from a				56.2%	2	3		
0.50/					,	0.00/		Hospital, Civilian TRICARE co		
2.5% 0.6%	12 🔲	Employer changed plans Employer stopped providir	na hoolth co	worago		0.8% 4.5%	3 🔲	Uniformed Services Family He		•
	ப		Ü	Ü		3.1%		Veterans Affairs (VA) clinic or I I went to none of the listed type		
0.4%	13 🔲	My doctor or other health	•		the plan	3.178	"	12 months	53 UI IA	Clittles III the last
0.4%	14	I did not like the referral re	•			11	lm 4		m !	llmana imirimi ar
0.4% 0.3%	15 16 	I could not get appointmen				11.		he last 12 months, did you hav Idition that <u>needed care right a</u>		
6.9%	17	I was dissatisfied with the Preferred new health plan	•					ergency room, or doctor's offi		
0.070		benefits or some other rea		ii iuwei cus	i, bellei	45.1%	i	-		H13006
0.0%	18 🔲	It was difficult to find parki		nic or docto	or's	54.9%			on 14	See Note 2
		office					į			Laana mialak arriar
0.5%	19 🔲	I had to travel too far to ge	et needed ca	are		12.		he last 12 months, when you <u>r</u> v often did you get care as soo		
14.3%	20 🔲	Married, divorced, or wido	wed					ded?	Jii u 3)	
14.2%	21 🔲	Became eligible for Medic	are			2.5%	¦ ₁ □	Never		H13007
14.0%	23 🗖	Other					i	Sometimes		See Note 2
	1				***		1	Usually		See Note 2
8.		ow is a list of problems so r health insurance plan.						Always		
		of these problems with y					-6	,	r an illı	ness, injury or
Percent Response	of OVO	n if it was not a reason yo						condition in the last 12 months		
					Not	13.	ln t	he last 12 months, when you <u>r</u>	needec	I care right away
			<u>Yes</u>	<u>No</u>	Applicable		for	an illness, injury, or condition	, how	long did you
		xpensive medical bills not	18.7%	81 <u>.3</u> %				ially have to wait between tryii	ng to g	jet care and
		d by my insurance	1 🔲	2 🔲	-6		1	ually seeing a provider?		H13008
		tor charged me more than arance would pay and I	22.6%	77.4%				Same day		1110000
		pay the difference	1 🔲	2 🔲	-6	13.7%				See Note 2
		or's office told me they do	15.8%	84.2%				2 days		
		ept my insurance	1 🔲	2 🔲	-6			3 days 4-7 days		
		contact my insurance						8-14 days		
	•	ny because they did not ill promptly or denied	19.1%	80.9%			1	15 days or longer		
	pay a b		1 🔲	2 🔲	-6			I didn't need care right away fo	r an illı	ness, injury or
e.	My plar	n did not include the	10.4%	89.6%				condition in the last 12 months		. , ,
	special	ist I needed	1 🔲	2	-6					

S13AA04A-S13AA04E

See Note 1_Q1

See Note 1_AA1

^{*}Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

14. Percent of	In the last 12 months, not countin health care right away, did you m	ake any <u>appointments</u>	19.	ot	her health p			u and a doctor or c things you could
Responses*	for your health care at a doctor's Yes	office or clinic? H13009	Responses*		to prevent i Never	illness?		H13014
13.1%	² ☐ No → Go to Questi	on 17 See Note 3	29.8%	2	1 Sometime	S		See Note 4
4.1% 14.8% 30.4%	care right away, how often did yo your health care at a doctor's offi you thought you needed? 1 Never 2 Sometimes	u get an appointment for	29.0% 28.1% 20.	Ch ch th	noices about e last 12 mo		y, or oth or othe	her treatment. In er health provider e for your
50.7%	4 ☐ Always		56.9%			H13015		See Notes 4 and
	-6 ☐ I had no appointments in the la		43.1%			→ Go to Quest		
16.	In the last 12 months, not countin health care right away, how many have to wait between making an a seeing a provider?	days did you usually	21.	pr ch	ovider talk v noice for you	nonths, did a doct vith you about the r treatment or hea	pros ai	nd cons of each
10 10/		H13011	65.0%	1 [Definitely	yes		H13016
	1 ☐ Same day 2 ☐ 1 day	See Note 3			Somewhat Somewhat		See	e Notes 4 and 5
	3 □ 2-3 days	See Note 5	1		Definitely i			
15.6% 11.2%	4 ☐ 4-7 days 5 ☐ 8-14 days 6 ☐ 15-30 days 7 ☐ 31 days or longer		22.	ch ot	noice for you	nonths, when ther r treatment or hea rovider ask which	Ith care	e, did a doctor or
	-6 ☐ I had no appointments in the la	st 12 months	57.3%	1	1 Definitely	yes		H13017
17.	In the last 12 months, how many emergency room to get care for y		32.0%	2	Somewhat Somewhat	t yes	See	e Notes 4 and 5
	¹ □ None	H13012	4.0%	4	Definitely i	10		
6.4% 2.4% 1.2%	² □ 1 ³ □ 2 ⁴ □ 3 ⁵ □ 4 ⁶ □ 5 to 9		23.	he po he	ealth care po ossible, what ealth care in	nber from 0 to 10, ssible and 10 is the number would you the last 12 months	ie best ou use t	health care
	7 ☐ 10 or more		0.7%			ealth care possible T		
18.	In the last 12 months (not countin	ig times you went to an	0.9%	2	2	Į		H13018
	emergency room), how many time doctor's office or clinic to get hea		1.6% 2.2%	4] 4		,	See Note 4
	¹ ☐ None → Go to Questi	on 24	5.7% 5.1%					
	² □ 1 3 □ 2	H13013	12.7%					
		See Note 4	20.8%	8] 8			
	5 1 4	000 11016 7	18.6%					
	6 □ 5 to 9			_		ealth care possible		
10.1%	7 ☐ 10 or more			-6	I I had no vi	sits in the last 12 m	onths	

^{*}Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

	YOUR PERSONAL D	OCTOR	31.			ns, how often di l up-to-date abo		
			Percent of Responses*			or other health	,	u got
24.	A personal doctor is the one you checkup, want advice about a he	ealth problem, or get sick	8.3%	1 🔲	Never		H130	26
Percent of Responses*	or hurt. Do you have a personal	doctor?	13.7%		Sometimes		0 N - t 0	. 7 10
78.6%		See Note 6	32.8% 45.2%		Usually		See Notes 6	5, 7, and 8
21.4%	² □ No → Go to Ques	tion 34	1		,			_
25.	In the last 12 months, how many personal doctor to get care for y		32.	per: doc	sonal doctor po tor possible, wh	from 0 to 10, wh ssible and 10 is nat number wou	the best pers	onal
8.0%	□ None → Go to Ques	tion 32		per	sonal doctor?		Ш12	3027
16.8% 22.1%		H13020		0	•	nal doctor possib	е	0027
18.5%	i	0 11 0 17	1	1 🔲	•		See N	Note 6
15.0%		See Notes 6 and 7	1	2 🔲	_			
15.2%			1	3 🔲	_			
4.4%	6 ☐ 10 or more		1	4 🔲 5 🔲	4			
24		did your personal deater	1	5 				
26.	In the last 12 months, how often listen carefully to you?	dia your personal doctor	1	° П				
4 40/		H13021	15.8%		•			
1.4% 6.2%	1 ☐ Never 2 ☐ Sometimes	See Notes 6 and 7	22.8%					
17.8%	3 Usually	See Notes 6 and 7	40.5%	10	10 Best person	al doctor possibl	e	
74.6%	4 ☐ Always		1		I don't have a p			
,	-6 ☐ I had no visits in the last 12 m	onths	33.	Did	you have the sa	ame personal de	octor or nurse	before
27					joined this hea		, o. o	<u> </u>
27.	In the last 12 months, how often explain things in a way that was		32.8%	1 □	Yes →	Go to Questio	n 25	
4.00/			67.2%					0 1 0 01
1.2% 4.5%	¹□ Never ²□ Sometimes	H13022				S13009	See Notes	
19.7%	2 ☐ Sometimes ☐ 3 ☐ Usually	See Notes 6 and 7	34.		, ,	our health plan, s it to get a pers		
74.6%	4 ☐ Always	Occ Notes o and 7			are happy with			114130
	-6 I had no visits in the last 12 m	onths	10 0%	-	A big problem		S13010	
28.	In the last 12 months, how often	did your personal doctor	1		A small problen	, <u> </u>	See Note 8	R 01
20.	show respect for what you had t		1		Not a problem	· L	000 14010 1	5_01
1.2%								
4.9%	1 ☐ Never 2 ☐ Sometimes	H13023						
15.5%		See Notes 6 and 7		(SETTING HEALT	H CARE FROM	A SPECIALIS	T
78.4%	· · J							
	-6 I had no visits in the last 12 m	onths				questions, <u>do no</u>		al visits or
29.	In the last 12 months, how often	did your personal doctor	Care	you g	ioi when you stay	ved overnight in a	тиоѕрнат.	
27.	spend enough time with you?	Tala your personal doctor	25	C	-:-!:-4			
2.2%	¹ □ Never	H13024	35.			tors like surged in doctors, and		
6.7%	2 ☐ Sometimes	See Notes 6 and 7				ea of health car		WIIO
25.6%		Gee Notes o and 7		-				
65.5%	, .		Percent of		ointments to se	ns, did you try to e a specialist?	Illake ally	
	$-6 \square$ I had no visits in the last 12 m	onths	Responses*		Г	H13028		vloto 0
30.			61.5% 38.5%		L			Note 9
30.	In the last 12 months, did you go other health provider besides yo		30.070	- Ц	No →	Go to Questio	לט וו	
75 2 0/		See Notes 6, 7, and 8						
75.2% 24.8%	1 ☐ Yes ☐ H13025 2 ☐ No → Go to Quest							
27.0/0	- LI INO TO GO TO QUES	IIUII JZ	*Perc	ent of re	esponses exclude value	es coded as missing or	skipped, therefore of	denominators

*Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

36. Percent of	In the last 12 months, how often appointments with specialists?	was it easy to get	42.	V —	ounseling possible	and 10 is the best
Responses	* ''	H13029				what number would
	¹ ☐ Never	1110020	Percent of	•	e your treatment or	counseling in the last 12
	² D Sometimes	See Note 9	Responses*	months?		
	³ ☐ Usually		2.1% 0	□ 0 Worst tr	eatment or counselir	ig possible
48.8%	!		1.4% 1	□ 1		
	$^{-6}\square$ I didn't need a specialist in the	e last 12 months	1.7% 2	□ 2		S13B04
37.	How many specialists have you	seen in the last 12	2.1% 3	□ 3		Soc Note 10 P1
	months? H13030	See Notes 9 and 10	3.8% 4	□ 4		See Note 10_B1
3.5%			7.4% 5	□ 5		
	1	UON 39	6.3% 6	□ 6		
42.8% 29.5%			10.5% 7	 7		
	² □ 2 3 □ 3		15.9% 8	□ 8		
5.9%	4 🗖 4		19.6% 9	9		
			29.3% 10	□ 10 Best tr	eatment or counselin	g possible
3.0%	5 □ 5 or more specialists		-6			g in the last 12 months
38.						
	most often in the last 12 months	0 9			YOUR HEALTH PL	AN
	0 to 10, where 0 is the worst spe					
	the best specialist possible, what	at number would you use	Tho n	novt aunctions as	sk about vour ovnorid	nce with your health plan.
	to rate the specialist?	H13031			ve mean the health p	
0.5%	○ □ 0 Worst specialist possible			tion 3.	ve mean the neath p	an you marked in
0.5%	1 □ 1	See Notes 9 and 10				
0.9%	2 □ 2		43.			to get any kind of care,
0.8%	3 □ 3		Percent of Responses*	tests, or treati	nent through your h	¬
1.3%	4 🔲 4		74.1%	☐ Yes	H13032	See Note 11
3.7%	5 5		25.9% 2	² □ No	→ Go to Questi	1 <u>-</u>
	! — •		23.970	L NO	Go to Questi	ON 45
	6 □ 6					
	! — •		44.	In the last 12 r	months, how often v	vas it easy to get the
	6			In the last 12 r	months, how often v treatment you thou	
8.2%	6 □ 6 7 □ 7 8 □ 8		44.	In the last 12 r care, tests, or your health pla	months, how often v treatment you thou	vas it easy to get the
8.2% 17.2%	6 □ 6 7 □ 7 8 □ 8 9 □ 9		2.9%	In the last 12 r care, tests, or your health pla	nonths, how often v treatment you thou an?	vas it easy to get the ght you needed through
8.2% 17.2% 25.3%	6 □ 6 7 □ 7 8 □ 8 9 □ 9	last 12 months	2.9% 1 9.1% 2	In the last 12 r care, tests, or your health plate. Never Sometime	nonths, how often v treatment you thou an?	vas it easy to get the ght you needed through
8.2% 17.2% 25.3% 38.3%	6 ☐ 6 7 ☐ 7 8 ☐ 8 9 ☐ 9 10 ☐ 10 Best specialist possible -6 ☐ I didn't see a specialist in the		2.9% 1 9.1% 2 27.4% 3	In the last 12 r care, tests, or your health plate Never Sometime Usually	nonths, how often v treatment you thou an?	vas it easy to get the ght you needed through
8.2% 17.2% 25.3%	6 ☐ 6 7 ☐ 7 8 ☐ 8 9 ☐ 9 10 ☐ 10 Best specialist possible -6 ☐ I didn't see a specialist in the	our overall <u>mental</u> or	2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always	nonths, how often v treatment you thou an?	vas it easy to get the ght you needed through H13033 See Note 11
8.2% 17.2% 25.3% 38.3% 39.	6 ☐ 6 7 ☐ 7 8 ☐ 8 9 ☐ 9 10 ☐ 10 Best specialist possible -6 ☐ I didn't see a specialist in the In general, how would you rate y emotional health?		2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate. Never Sometime Usually Always I didn't nea	nonths, how often v treatment you thou an? s	vas it easy to get the ght you needed through
8.2% 17.2% 25.3% 38.3% 39.	6 ☐ 6 7 ☐ 7 8 ☐ 8 9 ☐ 9 10 ☐ 10 Best specialist possible -6 ☐ I didn't see a specialist in the In general, how would you rate y emotional health? 1 ☐ Excellent	our overall <u>mental</u> or	2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't nee plan in the	months, how often we treatment you thou an? s ed care, tests, or treated as the 12 months	vas it easy to get the ght you needed through H13033 See Note 11 tment through my health
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0%	6 6 6 7 7 8 8 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good	our overall <u>mental</u> or	2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't new plan in the last 12 r	months, how often we treatment you thou an? s ed care, tests, or treated tast 12 months months, did you loo	was it easy to get the ght you needed through H13033 See Note 11 tment through my health
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0%	6 6 6 7 7 8 8 9 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good 3 Good	our overall <u>mental</u> or	2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't need plan in the last 12 r written materia	months, how often we treatment you thou an? s ed care, tests, or treated tast 12 months months, did you loo	vas it easy to get the ght you needed through H13033 See Note 11 tment through my health
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3%	6 6 6 7 7 8 8 9 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good 3 Good 4 Fair	our overall <u>mental</u> or	2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't new plan in the last 12 r	months, how often we treatment you thou an? s ed care, tests, or treated tast 12 months months, did you loo	was it easy to get the ght you needed through H13033 See Note 11 tment through my health
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3%	6 6 6 7 7 8 8 9 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good 3 Good	our overall <u>mental</u> or	2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't new plan in the last 12 r written materia plan works?	months, how often we treatment you thou an? sed care, tests, or treated last 12 months months, did you loo als or on the Internet	vas it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in et about how your health
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3%	6 6 6 7 7 8 8 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good 3 Good 4 Fair 5 Poor In the last 12 months, did you ne	your overall mental or \$13B01 eed any treatment or	2.9% 1 9.1% 2 27.4% 3 60.5% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't need plan in the last 12 r written material plan works?	months, how often we treatment you thou an? sed care, tests, or treated last 12 months months, did you loo als or on the Internet	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in et about how your health See Note 12
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3% 1.6%	6 6 6 7 7 8 8 9 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good 3 Good 4 Fair 5 Poor	your overall mental or \$13B01 eed any treatment or	44. 2.9% 9.1% 27.4% 360.5% 45. 30.6% 169.4% 2	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't new plan in the last 12 r written materia plan works?	months, how often we treatment you thou an? Seed care, tests, or treated last 12 months months, did you loo als or on the Internet H13034 Go to Question	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in et about how your health See Note 12
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3% 1.6% 40.	6 6 6 7 7 8 8 9 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good 3 Good 4 Fair 5 Poor In the last 12 months, did you necounseling for a personal or fam	your overall mental or S13B01 eed any treatment or hily problem?	44. 2.9% 9.1% 27.4% 360.5% 45.	In the last 12 r care, tests, or your health plate	months, how often we treatment you thou an? Seed care, tests, or treated last 12 months months, did you loo als or on the Internet H13034 Go to Question months, how often companies.	was it easy to get the ght you needed through H13033 See Note 11 Itment through my health k for any information in et about how your health See Note 12 On 47 Itid the written material
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3% 40.	6 6 6 7 7 8 8 9 9 9 10 10 Best specialist possible -6 I didn't see a specialist in the In general, how would you rate y emotional health? 1 Excellent 2 Very good 3 Good 4 Fair 5 Poor In the last 12 months, did you ne counseling for a personal or fam 1 Yes S13B02	eed any treatment or hily problem? See Note 10_B1	44. 2.9% 9.1% 27.4% 360.5% 45. 30.6% 169.4% 2	In the last 12 r care, tests, or your health plate	months, how often we treatment you thou an? sed care, tests, or treatment 12 months months, did you loo als or on the Internet H13034 Go to Question on the information of the information of the information of the provide the information of the control of the information of the	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in et about how your health See Note 12
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3% 40. 17.4% 82.6%	6	eed any treatment or nily problem? See Note 10_B1 tion 43	44. 2.9% 9.1% 27.4% 60.5% 45. 30.6% 169.4% 2 46.	In the last 12 r care, tests, or your health plate of the last 12 r sometime. Sometime of Last 12 r written material plan works? Yes No In the last 12 r or the Internet how your plan	months, how often we treatment you thou an? sed care, tests, or treatment 12 months months, did you loo als or on the Internet H13034 Go to Question on the information of the information of the information of the provide the information of the control of the information of the	was it easy to get the ght you needed through H13033 See Note 11 Itment through my health k for any information in et about how your health See Note 12 On 47 Itid the written material
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3% 40.	6	eed any treatment or nily problem? See Note 10_B1 tion 43 n of a problem, if any, was	44. 2.9% 9.1% 27.4% 360.5% 45. 30.6% 169.4% 246.	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't new plan in the last 12 r written materia plan works? Yes No In the last 12 r or the Internet how your plan Never	months, how often we treatment you thou an? sed care, tests, or treated as 12 months months, did you loo als or on the Internet H13034 Go to Question months, how often coprovide the informations works?	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in the about how your health See Note 12 on 47 lid the written material ation you needed about H13035
8.2% 17.2% 25.3% 38.3% 39. 41.0% 31.0% 19.0% 7.3% 40. 17.4% 82.6%	6	eed any treatment or nily problem? See Note 10_B1 tion 43 n of a problem, if any, was	44. 2.9% 9.1% 27.4% 360.5% 45. 30.6% 169.4% 2 46. 6.6% 128.1% 2	In the last 12 r care, tests, or your health plate of your health plan in the last 12 r written materia plan works? Yes No In the last 12 r or the last 12 r or the Internet how your plane of your p	months, how often we treatment you thou an? sed care, tests, or treated as 12 months months, did you loo als or on the Internet H13034 Go to Question months, how often coprovide the informations works?	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in the about how your health See Note 12 on 47 lid the written material ation you needed about
8.2% 17.2% 25.3% 38.3% 39. 41.0% 19.0% 7.3% 40. 17.4% 82.6% 41.	6	eed any treatment or nily problem? See Note 10_B1 tion 43 n of a problem, if any, was	44. 2.9% 9.1% 27.4% 360.5% 45. 30.6% 169.4% 246. 6.6% 128.1% 242.4% 3	In the last 12 r care, tests, or your health plate of your health plan in the last 12 r written material plan works? Yes No In the last 12 r or the Internet how your plan Never Sometime Usually	months, how often we treatment you thou an? sed care, tests, or treated as 12 months months, did you loo als or on the Internet H13034 Go to Question months, how often coprovide the informations works?	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in the about how your health See Note 12 on 47 lid the written material ation you needed about H13035
8.2% 17.2% 25.3% 38.3% 39. 41.0% 19.0% 7.3% 40. 17.4% 82.6% 41.	6	eed any treatment or nily problem? See Note 10_B1 tion 43 n of a problem, if any, was ling you needed through S13B03	44. 2.9% 9.1% 27.4% 360.5% 45. 30.6% 169.4% 246. 6.6% 128.1% 242.4% 322.9% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't new plan in the last 12 r written materia plan works? Yes No In the last 12 r or the Internet how your plan Never Sometime Usually Always	months, how often we treatment you thou an? sed care, tests, or treated last 12 months months, did you loo als or on the Internet H13034 Go to Question months, how often comprovide the informations works?	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in the about how your health See Note 12 on 47 lid the written material action you needed about H13035 See Note 12
8.2% 17.2% 25.3% 38.3% 39. 41.0% 19.0% 7.3% 40. 17.4% 82.6% 41.	6	eed any treatment or nily problem? See Note 10_B1 tion 43 of a problem, if any, was ling you needed through	44. 2.9% 9.1% 27.4% 360.5% 45. 30.6% 169.4% 246. 6.6% 128.1% 242.4% 322.9% 4	In the last 12 r care, tests, or your health plate Never Sometime Usually Always I didn't new plan in the last 12 r written materia plan works? Yes No In the last 12 r or the Internet how your plan Never Sometime Usually Always	months, how often we treatment you thou an? seed care, tests, or treatment 12 months months, did you loo als or on the Internet H13034 Go to Question months, how often coprovide the information works? S k for information from	was it easy to get the ght you needed through H13033 See Note 11 tment through my health k for any information in the about how your health See Note 12 on 47 lid the written material ation you needed about H13035

^{*}Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

47.	Sometimes people need services what is provided in a regular or re		53. II	ustomer service	staff treat you v	vith courtesy and
	as care from a specialist, physica	al therapy, a hearing aid,	Doroont of	espect?		H13042
	or oxygen. H13036	See Note 13	1.4% 1			0 11 45
	In the last 12 months, did you loo your health plan on how much yo		8.1% 2			See Note 15
Percent of Responses*	a health care service or equipmen		21.1% ³ [69.4% ⁴ [,		
15.4%			-6	,	y health nlan's cu	stomer service in the last
84.6%		ion 49		12 months	y meanin pian s ca	Storner Service in the last
48.	In the last 12 months, how often t		54. l	n the last 12 mor	nths, did vour he	alth plan give you any
10.	from your health plan how much			orms to fill out?		
	for a health care service or equip	ment?	26.4% 1	☐ Yes	H13043	See Note 16
17.2%		H13037	73.6% 2	□ No	→ Go to Que:	stion 56
19.2%		See Note 13	55. I	n the last 12 mor	nths, how often v	vere the forms from your
31.8% 31.8%		0001101010	ŀ	ealth plan easy	to fill out?	
31.0%	 4 □ Always -6 □ I didn't need a health care serven 	vice or equipment from my	2.8% 1	☐ Never		H13044
	health plan in the last 12 month		1	Sometimes		See Note 16
49.	In some health plans, the amount	t you pay for a	43.3% 3 [40.9% 4 [,		
	prescription medicine can be diff	erent for different	1	,	any experiences v	vith paperwork for my
	medicines, or can be different for mail instead of at the pharmacy.	prescriptions filled by			the last 12 month	
	•	.l. for information from	56.	Claims are sent to	o a health plan fo	or payment. You may
	In the last 12 months, did you loo your health plan on how much yo		S	end in the claim	s yourself, or do	ctors, hospitals, or
	specific prescription medicines?					e last 12 months, did you sto your health plan?
				1 41110115 5135 30	ziiu iii aiiv Ciaiiii	
20.6%	¹ ☐ Yes H13038	See Note 14	1			¬r
	1 ☐ Yes ☐ H13038 ☐ → Go to Questi		48.9% 1	⊐ Yes	H13045	See Note 17
	. П 163	ion 51	1	Yes No		See Note 17
79.4%	2 □ No → Go to Questi In the last 12 months, how often to from your health plan how much	ion 51 were you able to find out you would have to pay	48.9% 1 [31.4% 2 [19.7% -5 [Yes No Don't know	H13045 → Go to Que. → Go to Que.	See Note 17 stion 59 stion 59
79.4% 50.	2 □ No → Go to Questi In the last 12 months, how often v	ion 51 were you able to find out you would have to pay	48.9% 1 [31.4% 2 [19.7% 5 [Yes No Don't know	H13045 → Go to Ques → Go to Ques nths, how often o	See Note 17 stion 59 stion 59 lid your health plan
79.4% 50.	2 □ No → Go to Questing In the last 12 months, how often we from your health plan how much for specific prescription medicating. 1 □ Never	ion 51 were you able to find out you would have to pay	48.9% 1 [31.4% 2 [19.7% 5 [Yes No Don't know the last 12 mor	H13045 → Go to Ques → Go to Ques nths, how often o	See Note 17 stion 59 stion 59
79.4% 50. 11.6% 15.9%	2 □ No → Go to Question In the last 12 months, how often we from your health plan how much for specific prescription medication Never Sometimes	were you able to find out you would have to pay ions?	48.9% 1 [31.4% 2 [19.7% 5 [57. 1.4% 1 [Yes No Don't know the last 12 mor	H13045 → Go to Ques → Go to Ques nths, how often o	See Note 17 stion 59 stion 59 lid your health plan
79.4% 50. 11.6% 15.9% 28.9%	2 □ No → Go to Question In the last 12 months, how often to from your health plan how much for specific prescription medication 1 □ Never 2 □ Sometimes 3 □ Usually	were you able to find out you would have to pay ions?	48.9% 1 31.4% 2 19.7% 5 57.	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually	H13045 → Go to Ques → Go to Ques nths, how often o	See Note 17 Stion 59 Stion 59 Id your health plan H13046
79.4% 50. 11.6% 15.9% 28.9%	2 □ No → Go to Question In the last 12 months, how often we from your health plan how much for specific prescription medication 1 □ Never 2 □ Sometimes 3 □ Usually 4 □ Always -6 □ I didn't need prescription medication	were you able to find out you would have to pay ions? H13039 See Note 14	48.9% 1 31.4% 2 19.7% 5 1 1.4% 1 6.2% 2 29.2% 3 49.3% 4	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always	H13045 → Go to Ques → Go to Ques nths, how often o	See Note 17 Stion 59 Stion 59 Id your health plan H13046
79.4% 50. 11.6% 15.9% 28.9%	2 □ No → Go to Questing In the last 12 months, how often we from your health plan how much for specific prescription medicating 1 □ Never 2 □ Sometimes 3 □ Usually 4 □ Always	were you able to find out you would have to pay ions? H13039 See Note 14	48.9% 1 31.4% 2 19.7% 5 57. 1.4% 1 6.2% 2 29.2% 3 49.3% 4 13.1% 5	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know	H13045 → Go to Ques → Go to Ques onths, how often ons quickly?	See Note 17 Stion 59 Stion 59 Idid your health plan H13046 See Note 17
79.4% 50. 11.6% 15.9% 28.9%	2 □ No → Go to Questing In the last 12 months, how often we from your health plan how much for specific prescription medicating 1 □ Never 2 □ Sometimes 3 □ Usually 4 □ Always -6 □ I didn't need prescription medicating plan in the last 12 months In the last 12 months, did you try	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health	48.9% 1 31.4% 2 19.7% 5	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we	H13045 → Go to Quest → Go to Quest This, how often on a quickly?	See Note 17 Stion 59 Stion 59 Idid your health plan H13046 See Note 17 he last 12 months
79.4% 50. 11.6% 15.9% 28.9% 43.5%	In the last 12 months, how often with for specific prescription medicati Never Sometimes Usually Always I didn't need prescription medic plan in the last 12 months In the last 12 months, did you try help from your health plan's cust	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or iomer service?	48.9% 1 31.4% 2 19.7% 5 1 6.2% 2 29.2% 3 49.3% 4 13.1% 5 6 6 58. 1	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we	H13045 Go to Ques Go to Ques nths, how often on quickly?	See Note 17 Stion 59 Stion 59 Idid your health plan H13046 See Note 17
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51.	In the last 12 months, how often was from your health plan how much for specific prescription medicati Never Sometimes Usually Always I didn't need prescription medicating plan in the last 12 months In the last 12 months, did you try help from your health plan's cust Yes H13040	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or tomer service? See Note 15	48.9% 1 31.4% 2 19.7% 5 1 6.2% 2 29.2% 3 4 13.1% 5 6 58. 1 1 1 1 1 1 1 1 1	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain	H13045 Go to Ques Go to Ques nths, how often on quickly?	See Note 17 Stion 59 Stion 59 Idid your health plan H13046 See Note 17 he last 12 months
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51. 26.1% 73.9%	In the last 12 months, how often we from your health plan how much for specific prescription medicati 1 Never 2 Sometimes 3 Usually 4 Always -6 I didn't need prescription medicating plan in the last 12 months In the last 12 months, did you try help from your health plan's cust 1 Yes H13040 2 No Go to Questi	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or iomer service? See Note 15 ion 54	48.9% 1 31.4% 2 19.7% 5 1 6.2% 2 29.2% 3 49.3% 4 13.1% 5 6 6 58. 1	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain Never	H13045 Go to Ques Go to Ques nths, how often on quickly?	See Note 17 Stion 59 Stion 59 Iid your health plan H13046 See Note 17 he last 12 months Iid your health plan H13047
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51.	In the last 12 months, how often we from your health plan how much for specific prescription medicati 1 □ Never 2 □ Sometimes 3 □ Usually 4 □ Always -6 □ I didn't need prescription medicating plan in the last 12 months In the last 12 months, did you try help from your health plan's cust 1 □ Yes □ H13040 □ 2 □ No → Go to Question in the last 12 months, how often one of the plan's cust in the last 12 months, how often one of the plant is the last 12 months, how often one of the plant is the last 12 months, how often one of the plant is the pla	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or tomer service? See Note 15 ion 54 did your health plan's	48.9% 1 31.4% 2 19.7% 5 57.	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain Never Sometimes Usually	H13045 Go to Ques Go to Ques nths, how often on quickly?	See Note 17 Stion 59 Stion 59 Itid your health plan H13046 See Note 17 he last 12 months Itid your health plan
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51. 26.1% 73.9%	In the last 12 months, how often we from your health plan how much for specific prescription medicati 1 Never 2 Sometimes 3 Usually 4 Always -6 I didn't need prescription medicating plan in the last 12 months In the last 12 months, did you try help from your health plan's cust 1 Yes H13040 2 No Go to Questi	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or tomer service? See Note 15 ion 54 did your health plan's formation or help you	48.9% 1 31.4% 2 19.7% 5 57.	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain Never Sometimes Usually Always Always	H13045 Go to Ques Go to Ques nths, how often on quickly?	See Note 17 Stion 59 Stion 59 Iid your health plan H13046 See Note 17 he last 12 months Iid your health plan H13047
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51. 26.1% 73.9%	In the last 12 months, how often we from your health plan how much for specific prescription medicati Never Sometimes Usually Always I didn't need prescription medicating plan in the last 12 months In the last 12 months, did you try help from your health plan's cust Yes H13040 The last 12 months, how often of customer service give you the infineeded?	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or tomer service? See Note 15 ion 54 did your health plan's	48.9% 1 31.4% 2 19.7% 5 57.	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain Never Sometimes Usually Always Usually Always Usually Always Don't know	H13045 Go to Questing this, how often on quickly? The sent for me in the one correctly?	See Note 17 Stion 59 Stion 59 Itid your health plan H13046 See Note 17 he last 12 months Itid your health plan H13047 See Note 17
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51. 26.1% 73.9%	In the last 12 months, how often of from your health plan how much for specific prescription medicati Never Sometimes Usually Always I didn't need prescription medic plan in the last 12 months In the last 12 months, did you try help from your health plan's cust Yes H13040 H13040 The last 12 months, how often coustomer service give you the information of the coustomer service give you the information.	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or tomer service? See Note 15 ion 54 did your health plan's formation or help you	48.9% 1 31.4% 2 19.7% 5 57.	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain Never Sometimes Usually Always Usually Always Usually Always Don't know	H13045 Go to Questing this, how often on quickly? The sent for me in the one correctly?	See Note 17 Stion 59 Stion 59 Iid your health plan H13046 See Note 17 he last 12 months Iid your health plan H13047
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51. 26.1% 73.9% 52.	In the last 12 months, how often of from your health plan how much for specific prescription medicati Never Sometimes Usually Always I didn't need prescription medic plan in the last 12 months In the last 12 months, did you try help from your health plan's cust Yes H13040 H13040 The last 12 months, how often of customer service give you the infineeded? Never	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or iomer service? See Note 15 ion 54 did your health plan's formation or help you H13041	48.9% 1 31.4% 2 19.7% 5 57.	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain Never Sometimes Usually Always Usually Always Usually Always Don't know	H13045 Go to Questing this, how often on quickly? The sent for me in the one correctly?	See Note 17 Stion 59 Stion 59 Itid your health plan H13046 See Note 17 he last 12 months Itid your health plan H13047 See Note 17
79.4% 50. 11.6% 15.9% 28.9% 43.5% 51. 26.1% 73.9% 52.	In the last 12 months, how often we from your health plan how much for specific prescription medicati Never Sometimes Usually Always I didn't need prescription medicating plan in the last 12 months In the last 12 months, did you try help from your health plan's cust H13040 No → Go to Questing plan in the last 12 months, how often of customer service give you the infineded? Never Sometimes Usually	were you able to find out you would have to pay ions? H13039 See Note 14 cations from my health to get information or iomer service? See Note 15 ion 54 did your health plan's formation or help you H13041	48.9% 1 31.4% 2 19.7% 5 57.	Yes No Don't know the last 12 mor andle your clain Never Sometimes Usually Always Don't know No claims we the last 12 mor andle your clain Never Sometimes Usually Always Usually Always Usually Always Don't know	H13045 Go to Questing this, how often on quickly? The sent for me in the one correctly?	See Note 17 Stion 59 Stion 59 Itid your health plan H13046 See Note 17 he last 12 months Itid your health plan H13047 See Note 17

12 months

^{*}Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

59.	Using any number from 0 to 10, where 0 is the worst	65.	,	use tobacco every day,
	health plan possible and 10 is the best health plan possible, what number would you use to rate your health	Response.		3053 See Note 18
Percent of Responses*	plan?	0.070	3 3	o to Question 66
0.6%	° □ 0 Worst health plan possible H13048	5.7%	-	o to Question 66
0.6%	1 \ \ 1	84.4% 0.6%		o to Question 70
	2 2 2	0.0%	-5 ☐ Don't know → Go	o to Question 70
1	3 3	66.	1	
1.7%	4 🔲 4		smoking or using tobacco by a do	octor or other health
5.6%	5 □ 5		provider in your plan?	H13054
	6 □ 6	19.1%	The state of the s	
12.4%		24.1%		See Note 18
19.8%		20.5%	3 ☐ Usually 4 ☐ Always	
20.2%		30.378		
32.3%	10 ☐ 10 Best health plan possible	67.		
			recommended or discussed by a provider to assist you with quitting	
	PREVENTIVE CARE		tobacco? Examples of medication	
			nasal spray, inhaler, or prescription	
	ventive care is medical care you receive that is intended to	48.3%	¹ □ Never	H13055
	ntain your good health or prevent a future medical problem. A	24.3%		
pnys care	sical or blood pressure screening are examples of preventive	14.0%	³ □ Usually	See Note 18
		13.4%	⁴ □ Always	
Percent of 60. Responses*	When did you last have a blood pressure reading?	68.	In the last 12 months, how often of	did your doctor or other
1	3 Less than 12 months ago H13049		health provider discuss or provid	le methods and
	2 1 to 2 years ago		strategies other than medication	
	1 ☐ More than 2 years ago		quitting smoking or using tobacc and strategies are: telephone helpli	
61.	Do you know if your blood pressure is too high?		counseling, or cessation program.	
17.6%	¹ ☐ Yes, it is too high H13050	52.5%	¹ □ Never	H13056
1	No, it is not too high	22.2%		See Note 18
5.8%	3 Don't know	12.7%	1	
62.	When did you last have a cholesterol screening, that is, a	12.7%	⁴ □ Always	
! ! !	test to determine the level of cholesterol in your blood?	69.	On the days you smoke or use to	bacco products, what
	5 ☐ Less than 12 months ago S13015		type of product do you smoke or	use?
	4 ☐ 1-2 years ago		MARK ALL THAT APPLY.	H13057A-H13057D
4.6%	More than 2 years but less than 5 years ago	70.8%	A D Cigarettes	See Note 18
	2 5 or more years ago	13.8%		Sniis
10.2%	Never had a cholesterol screening	12.8%	J	31103
63.	When did you last have a flu shot?		□ □ Pipes, bidis, or kreteks (<i>Pipes</i>	include hookahs. Bidis are
62.9%	4 ☐ Less than 12 months ago H13051		small, brown, hand-rolled cigal	
i	3 ☐ 1-2 years ago		southeast Asian countries. Kre	
	² More than 2 years ago		made in Indonesia that contain tobacco.)	i ciove exilact and
11.3%	¹ ☐ Never had a flu shot	70		
64.	Have you ever smoked at least 100 cigarettes in your	70.	1110	See Note 19A
 	entire life?	48.0%		ion 77
i i	1 ☐ Yes H13052	52.0%	² ☐ Female	
1	—			
1.3%	-5 □ Don't know			

^{*}Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

Percent of				
Responses* 71.	When did you last have a Pap smear test? H13059B	78.		because of
48.6%	6 ☐ Within the last 12 months See Notes 19A and 19B	Percent of Response		H13066
	5 ☐ 1 to 2 years ago ☐ ☐ ☐		¹ □ Yes □	
	4 More than 2 but less than 3 years ago	66.6%	² □ No	
	More than 3 but less than 5 years ago	79.	· · · · · · · · · · · · · · · · · · ·	
	2 ☐ 5 or more years ago 1 ☐ Never had a Pap smear test		health provider 3 or more times for the san	
	1 1		problem? H13067	See Note 22
72.	Are you under age 40? H13060		¹ ☐ Yes ² ☐ No → Go to Question 81	
	GO TO QUESTION 74			
62.9%	See Notes 19A, 19B, and 20	80.	Is this a condition or problem that has last months? Do not include pregnancy or me	
73.	monage group, 2	06.60/	_	See Note 22
/	THOUSE NOTES 13A, 13B, and 20	86.6% 13.4%	1 ☐ Yes ☐ H13068 ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	See Note 22
	□ Within the last 12 months □ 1 to 2 years ago			h a d ha a a
	More than 2 years ago but less than 5 years ago	81.	Do you now need or take medicine prescri doctor? Do not include birth control.	bed by a
	2 5 or more years ago	67 70/	1 Yes H13069	See Note 23
	1 ☐ Never had a mammogram		Yes	000 11010 25
74.	Have you been pregnant in the last 12 months or are you		1	
	pregnant now? H13062 See Notes 19A,19B, and 21	82.	Is this medicine to treat a condition that have least 3 months? Do not include pregnancy	
2.7%	¹ ☐ Yes, I am currently pregnant → Go to Question 75		menopause.	
6.3%	² □ No, I am not currently pregnant, but have been pregnant	93.3%	1 ☐ Yes	See Note 23
04.00/	in the past 12 months → Go to Question 76	6.7%		
91.0%	No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 77	83.	Have you ever had any experience that wa	S S0
75			frightening, horrible, or upsetting that, in the	
75.	у г у ј пточоо		month	13B23-S13B26
21.0%	¹ ☐ First trimester (up to 12 weeks after 1st day of last period) → Go to Question 77			
41.9%	2 Second trimester (13th through 27th week)		MARK "YES" OR "NO" FOR EACH.	Percent of Responses*
	Third trimester (28th week until delivery)			YES NO
76.	See Notes 19A,19B, and 21 In which trimester did you first receive prenatal care?	a.	You have had nightmares about it or thought	10.8% 89.2%
90.4%			about it when you did not want to?	1 2
30.470	period)	b.	You tried hard not to think about it or went	11.1% 88.9%
5.0%	3 ☐ Second trimester (13th through 27th week)		out of your way to avoid situations that	
	² Third trimester (28th week until delivery)		· · · · · · · · · · · · · · · · · · ·	
4.6%	Did not receive prenatal care	C.	You have been constantly on guard,	9.5% 90.5% 1
	H13064 See Notes 19A,19B, and 21			
	ABOUT YOU	d.	You felt numb or detached from others, activities, or your surroundings?	9.8% 90.2% 1 2
			detivities, or your surroundings:	
Percent of Responses* 77.	In general, how would you rate your overall health?			
	E Cycellent			
	4 U Very good			
	₃ ☐ Good			
	² ☐ Fair			
2.3%	¹ □ Poor			

^{*}Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

84.	How tall are you without your shoes on?	88. What is your race?	SRRACEA-SRRACEE
	Please give your answer in feet and inches. Please write one	(Mark ONE OR MORE races to inc	licate what you consider
	number in each box. H13071F, H13071I	Responses* yourself to be.)	
	Example: 5 feet. 6 inches	79.6% A 🔲 White	
	Percent of Responses* 98.2%	10.7% B ☐ Black or African American	
	5 0 6	2.0% C ☐ American Indian or Alaska Na 6.0% ☐ ☐ Asian (e.g., Asian Indian, Chir	
		Korean, Vietnamese)	icse, i ilipilio, sapariese,
	FEET INCHES	0.8% E Native Hawaiian or other Paci	
		(e.g., Samoan, Guamanian, o	r Chamorro)
	Your height:	89. What is your age now?	
		12.7% 1 □ 18 to 24	SRAGE
		18.1% 2 \(\) 25 to 34 11.9% 3 \(\) 35 to 44	
		11.9% 3 35 to 44 11.0% 4 4 45 to 54	
	FEET INCHES	18.0% 5 □ 55 to 64	
85.	How much do you weigh without your shoes on?	16.5% 6 □ 65 to 74	
	Please give your answer in pounds. Please write one number	11.7% 7 □ 75 or older	
	in each box.	90. Are you currently covered by Me	dicare?
	Example: 152 pounds H13072	31.5% ¹ ☐ Yes H13074	See Note 25
	Percent of Responses*	61.3% 2 □ No → Go to Que	
	1 5 2	7.2% -5 ☐ Don't know → Go to Que	estion 96
		91. Currently, are you covered by Mo	
	POUNDS	is the federal health insurance prog older and for certain persons with o	
	Your weight:	Part A helps pay for inpatient hosp	
	rour weight.	31.5% 1 Yes, I am now covered by Me	dicare Part A See Note 25
		61.3% 2 No, I am not covered by Medic	care Part A
		92. Currently, are you covered by Mo	edicare Part B? Medicare
	DOTING	is the federal health insurance prog	
	POUNDS	older and for certain persons with of Part B helps pay for doctor's service	
86.	What is the highest grade or level of school that you have	services, and certain other services	
Percent of Responses*	completed?	31.5% 1 Yes, I am now covered by Me	
	1 Sth grade or less	61.3% 2 No, I am not covered by Medic	care Part B
	2 Some high school, but did not graduate	93. Medicare Advantage is the new r	
43.9%	 High school graduate or GED Some college or 2-year degree 	Choice plans. Are you enrolled i plan? <i>This plan is also sometimes</i>	
15.3%		·	
17.2%	6 ☐ More than 4-year college degree	31.5% 1 ☐ Yes 61.3% 2 ☐ No	H13077
87.	Are you of Hispanic or Latino origin or descent?	7.2% -5 □ Don't know	See Note 25
	(Mark "NO" if not Spanish/Hispanic/Latino.)		
87.6%	A 🗖 No, not Spanish, Hispanic, or Latino		
3.7%	^B ☐ Yes, Mexican, Mexican American, Chicano		
	○ ☐ Yes, Puerto Rican		
	□ Yes, Cuban		
3.1%	E ☐ Yes, other Spanish, Hispanic, or Latino		

See Note 24

H13073A-H13073E, H13073

^{*}Percent of responses exclude values coded as missing or skipped, therefore denominators vary depending on number of eligible respondents per question.

94.	Currently, are you covered by Medic insurance? Medicare supplemental in	nsurance, also called	98.	faci	ou were free to choose betwee			
	Medigap or MediSup, is usually obtained insurance companies and covers some	•	Responses		fer? Would you say	S13N11		
Percent of Responses*	for by Medicare. H13078	See Note 25	12.5%	1	All care from military facilities			
17.2%			37.7% 36.2%	! —	All care from civilian facilities Some care from military and so facilities	ome care from civilian		
82.8%	No, I am not covered by Medicare insurance	supplemental	13.6%	! !	Or, no preference			
95.	Are you enrolled in Medicare Part D Medicare Prescription Drug Plan?	also known as the			9 refers to your preference betw lities that you gave in Q.98.	een civilian and military		
7.5%	¹ ☐ Yes H13079	See Note 25	99		y do you prefer the type of fac	ility you selected in		
82.8%	2 □ No			Q.98	8?	S13N12A-S13N12M		
9.7%	-5 ☐ Don't know			MA	RK ALL THAT APPLY.			
96.	Using a scale of 1 to 5, with 1 being and 5 being "strongly agree", how n	nuch do you agree	37.1%	A 🗖	I have a greater choice of doct facility	ors at my preferred type o		
	with the following statement: In gen my provider(s) when needed?	eral, I am able to see S13011	34.1%	! !	My chosen personal doctor is a facility			
5.1%	¹ ☐ 1 Strongly disagree		23.8%		My chosen specialist is at my p			
4.6%	² ☐ 2 Disagree		20.1%	1	•			
9.0%	³ ☐ 3 Neither agree nor disagree		1.5%	!	I have to travel too far to a civil	•		
42.8%	⁴ □ 4 Agree		24.2% 33.3%		I have to travel too far to a mili	•		
38.5%	⁵ □ 5 Strongly agree		4.9%	1	•	•		
			15.7%	1	The care at my preferred type	• •		
97.	Using a scale of 1 to 5, with 1 being	"completely	10.770		for my out-of-pocket costs	of facility is a good value		
	dissatisfied" and 5 being "complete satisfied are you, overall, with the ho		10.0%	ı 🗖	My out-of-pocket costs are less facility	s at my preferred type of		
	received during your last visit?	S13014	1.7%	к 🔲	I have not needed health care			
4.5%	¹ ☐ 1 Completely dissatisfied		12.9%	L 🔲	Another reason			
4.2%	² D 2 Somewhat dissatisfied		14.9%	м	No preference			
	3 ☐ 3 Neither satisfied nor dissatisfied	b		!				
	⁴ 4 Somewhat satisfied		T	NIIZ V	OU FOR TAKING THE TIME T	O OOMBLETE THE		
60.4%	5 ☐ 5 Completely satisfied		SUI	RVEY!	OU FOR TAKING THE TIME TO Your generous contribution will be health of our military commun	I greatly aid efforts to		
					our survey in the postage-paid s missing, please send to:	lenvelope. If the		
					fice of the Assistant Secretary of IA/DHCAPE	f Defense (Health Affairs)		

c/o Synovate Survey Processing Center PO Box 5030

Chicago, IL 60680-4138

APPENDIX A ANNOTATED QUESTIONNAIRE – QUARTER II

PAGE IS INTENTIONALLY LEFT BLANK TO	ALLOW FOR DOUBLE-SIDED COPYING

RCS: DD-HA(A) 1942







Health Care Survey of DoD Beneficiaries

A world-wide survey of beneficiaries eligible for health care coverage through the military health system

January 2013

PRIVACY ADVISORY

Providing information in this Survey is voluntary. There is no penalty nor will your benefits be affected if you choose not to respond, although maximum participation is encouraged so that the data will be as complete and representative.

The Survey was written so that answers should not require you to provide any personally identifiable information (PII), but please be assured that any PII provided will be treated as confidential. Your responses are collected via a secure system which does not collect any information that could be used to determine your identity.

Answering the questions is voluntary; you may stop the Survey at any time.

SURVEY INSTRUCTIONS

Answer <u>all</u> the questions by checking the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

\times	Yes	→ Go to Question 12
П	Nο	

Please return the completed questionnaire in the enclosed postage-paid envelope within <u>seven days</u>. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs) TMA/DHCAPE

c/o Synovate Survey Processing Center PO Box 5030

Chicago IL,60680-4138

SURVEY STARTS HERE

As an eligible TRICARE beneficiary, <u>please complete this survey</u> even if you did not receive your health care from a military facility.

Please recognize that some specific questions about TRICARE benefits may not apply to you, depending on your entitlement and particular TRICARE program.

This survey is about the health care of the person whose name appears on the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to that person.

1.

Are you the person whose name appears on the cover								
letter?			H13001					
1 🗍	Yes → No →	Go to Question 2 on the Please give this question person addressed on the	nnaire to the					

covered? to the plan you indicated in Question 3. H13002A-H13002U MARK ALL THAT APPLY. How many months or years in a row have you been in this health plan? H13004 ÄÄSee Note 1 Military Health Plans 1 □ Less than 6 months ¦A 🔲 TRICARE Prime (including TRICARE Prime Remote 2 🔲 6 up to 12 months and TRICARE Overseas) з П 12 up to 24 months c 🗖 TRICARE Extra or Standard (CHAMPUS) 4 🔲 2 up to 5 years Ν□ TRICARE Plus 5 5 up to 10 years 0 🗖 TRICARE for Life 6 10 or more years P 🔲 TRICARE Supplemental Insurance Q 🔲 TRICARE Reserve Select Many beneficiaries who are eligible for TRICARE also have the s 🗖 TRICARE Retired Reserve opportunity to obtain other civilian health insurance through their job T □ TRICARE Young Adult or a family member's job, through COBRA, or through retirement lu 🗖 Continued Health Care Benefit Program (CHCBP) (a coverage from a previous job, or from some other group. COBRA lets beneficiaries pay to keep their coverage temporarily when they COBRA-like premium-based health care program) leave their job. **Other Health Plans** Do you currently have the opportunity to obtain civilian F \square Medicare health insurance coverage for yourself through some G □ Federal Employees Health Benefit Program (FEHBP) civilian group? н 🔲 Medicaid S13J01 See Note 1_J1 1 🔲 Yes · 🗆 A civilian HMO (such as Kaiser) 2 🔲 No **→** Go to Question 17 J Other civilian health insurance (such as Blue Cross) к 🔲 Uniformed Services Family Health Plan (USFHP) What options do you have for obtaining civilian coverage? мП The Veterans Administration (VA) R □ Government health insurance from a country other than MARK ALL THAT APPLY. the US A 🔲 Through my current employer Not sure в 🔲 Through COBRA from my previous employer с□ Through retirement coverage from my previous Which health plan did you use for all or most of your health care in the last 12 months? H13003 See Note 1 Through a family member's current employer D 🔲 MARK ONLY ONE ANSWER. Ε Through COBRA from a family member's previous employer 1 🔲 TRICARE Prime (including TRICARE Prime Remote F \square Through retirement coverage from a family member's and TRICARE Overseas) previous employer 3 🔲 TRICARE Extra or Standard (CHAMPUS) G 🔲 Through another organization S13J02A-S13J02I 11 🔲 TRICARE Plus н 🔲 Through a government program 12 🔲 TRICARE Reserve Select · 🗆 Don't know See Note 1_J1 14 🔲 TRICARE Retired Reserve 15 🔲 TRICARE Young Adult Are you alone or are you and others in your household now 16 🔲 Continued Health Care Benefit Program (CHCBP) (a covered by a civilian policy? COBRA-like premium-based health care program) 1 🔲 Yes, I alone 4 Medicare (may include TRICARE for Life) 2 🔲 Yes, I and at least one other person in my household 5 🔲 Federal Employees Health Benefit Program (FEHBP) are covered 6 🔲 Medicaid 4 No Go to Question 10 7 A civilian HMO (such as Kaiser) S13J03 See Notes 1_J1 and 1_J2 8 🔲 Other civilian health insurance (such as Blue Cross) For your civilian coverage, do you or your family member 9 🔲 Uniformed Services Family Health Plan (USFHP) pay all or part of the insurance premium? 10 🔲 The Veterans Administration (VA) 1 🔲 Yes, I or my family members pay all of the premium 13 🔲 Government health insurance from a country other 2 🔲 Yes, I or my family members pay part of the premium than the US з 🔲 No, coverage is available at no cost \rightarrow Go to -5 Not sure Question 10 -6 🔲 Did not use any health plan in the last 12 S13J04 Don't know -5 🔲 See Notes 1_J1,1_J2, and 1_J3

For the remainder of this questionnaire, the term health plan refers

By which of the following health plans are you currently

9. How much per month do you or your family member pay for this coverage?

Please write your response in dollars on the lines provided, then check the matching box below in each column. For example, if you pay \$456 per month, you would put a "4" on the first line, a "5" on the second line and "6" on the third line, and then check the box next to the "4" in the first column, next to the "5" in the second column and next to the "6" in the third column.

For example:

Dollars						
4	5	6				
□0	0	□ 0				
□1	1	□1				
□ 2	□ 2	□ 2				
3	3	3				
₹ 4	□4	□4				
□ 5	∑ 5	□ 5				
□ 6	□ 6	 6				
□ 7	□ 7	□ 7				
□8	□8	□8				
□9	□9	□ 9				

If you do not know the exact amount, please indicate the approximate amount.

Your Answer:

Dollars							
□0	□ 0	0					
1	□1	1					
□ 2	□ 2	□ 2					
3	□3	3					
□4	□4	□4					
□ 5	□ 5	□ 5					
□ 6	□6	□ 6					
□ 7	□ 7	□ 7					
□8	□8	□8					
□9	□9	□9					

1000	\$1000 or mo Don't know	re		S13J05
		Se	ee Notes	1_J1,1_J2, and 1_J3
,	used civilian o st 12 months?	ove	rage for aı	ny of your health care
1 🔲	Yes →	Go	to Questi	ion 12
2 🔲	No			S13J06
			See No	otes 1_J1 and 1_J4

11.	. Why haven't you used civilian coverage?								
	MARK A	ALL THAT APPLY.							
	А П В П F П	Civilian coverage is not available to me I have a better choice of doctors with TRICARE My personal doctor is only available to me through TRICARE							
	J	I prefer to use military doctors I prefer military hospitals I want to be sure I can always use military health care I get better customer service with TRICARE Civilian benefits are poor compared to TRICARE I do not want to pay the premium for civilian coverage My employer pays a bonus for not taking employee							
	N 🗖	coverage My family member's employer pays a bonus for not taking employee coverage							
	н П 0 П	I pay less for TRICARE than I would for civilian care I have access to better quality care through TRICARE							
	к 🗆 L 🗖	I have not needed health care Another reason S13J07A-S13J07O							
	- L	See Notes 1_J1 and 1_J4							
12.		u used TRICARE for any health care (except for tion drugs) in the past 12 months?							
	1 □ 2 □	Yes → Go to Question 14 No							
	 	S13J08 See Notes 1_J1 and 1_J5							
13.		en't you used TRICARE?							
		LL THAT APPLY.							
	A 	I have a greater choice of doctors with my civilian plan							
	D□	My personal doctor is not available to me through TRICARE							
		I prefer civilian doctors							
	¦н □	I prefer civilian hospitals There are no military facilities near me							
	c 🗖	I get better customer service with civilian plans							
	E 🔲	TRICARE benefits are poor compared to my civilian plan							
	F □ B □	It is easier for me to get care through my civilian plan I do not want to pay the premium for TRICARE							
	G 🗖	I pay less for civilian care than I would for TRICARE							
	K	I have not needed health care Another reason S13J09A-S13J09L							
	 	See Notes 1_J1 and 1_J5							
14.	Have you	u dropped civilian coverage in the past 12 months?							
	1 □	Yes No → Go to Question 17							

S13J10

See Notes 1_J1 and 1_J6

15.		owing are reasons you dropped civilian			YOL	JR HEA	LTH CARE	IN TH	HE LAST 12 MONTHS
	coverage in the past 12 months?	·	S13J13A-S13J13N						
	MARK ALL THAT APPLY. A □ You lost job B □ Your husband/wife/parer C □ You changed jobs D □ Your husband/wife/parer E □ You retired from a job F □ Your husband/wife/parer G □ Moved to new location H □ You/your husband/wife/parer and became active You/your husband/wife/parer returned to Select Reser J □ Employer changed plans K □ Found a less expensive M □ Went on Medicare Problems with health plans	nt lost job nt change nt retired parent are parent are ve s health pl dowed	ed jobs from a job e/is Select Reserves e/is a Reservist and	care inclu 17.	you got ude the til In the la health o	when you mes you st 12 m are? ONLY O A milit Militar A civil Clinic, Unifor (USF) Vetera I went	ou stayed over went for description on the control of the control	re dic H130 FR. This PRIMU This iviliar res Fa	d you go most often for your
16.	coverage in the past 12 months? MARK ONLY ONE ANSWER. 1 You lost job 2 Your husband/wife/parer 3 You changed jobs 4 Your husband/wife/parer 5 Your husband/wife/parer 7 Moved to new location 8 You/your husband/wife/parer 9 You/your husband/wife/pand became active 9 You/your husband/wife/pand became active 10 Employer changed plans 11 Found a less expensive 12 Married, divorced, or wice 13 Went on Medicare	Can you explain the MAIN reason you dropped civilian coverage in the past 12 months? MARK ONLY ONE ANSWER. 1 You lost job 2 Your husband/wife/parent lost job 3 You changed jobs 4 Your husband/wife/parent changed jobs 5 Your retired from a job 6 Your husband/wife/parent retired from a job 7 Moved to new location 8 You/your husband/wife/parent are/is Select Reserves and became active 9 You/your husband/wife/parent are/is a Reservist and returned to Select Reserve 10 Employer changed plans 11 Found a less expensive health plan 12 Married, divorced, or widowed 13 Went on Medicare		19. 20. 21.	appoint 1	Yes No d you m ALL TH Forgo Felt b Felt w Got ca Schee Diffict Other ast 12 m went w Yes No 1 to 2 3 to 5 6 or m	S13ACO S13ACO S13ACO AT APPLY. At about appoint the appoint to the are somewholdling confliculty getting to the appoint to	ppointm ere e e et or co facil yyou ger at 3	See Notes 1_AC1 and 1_AC else other commitments lity cancel or reschedule an at this facility? See Notes 1_AC1 and 1_AC3 uestion 23 w many appointments did s facility?

	MARK A	LL THAT APPLY.					jet an appointment for your or clinic as soon as you
	А П	Forgot about appointment Felt better				t you needed? Never	H13010
	С П	Felt worse Got care somewhere else			2 □ 3 □	Sometimes Usually	See Note 3
	E □ F □ G □	Scheduling conflict or other Difficulty getting to facility Other	S13AC05A-S13AC05G		4 □ -6 □	Always I had no appointments	in the last 12 months
	1 1 1 1	See 1	Notes 1_AC1 and 1_AC3	28.			nting the times you needed any <u>days</u> did you usually
23.		st 12 months, did you have n that <u>needed care right aw</u>			have to		an appointment and actually
	1	cy room, or doctor's office	? H13006		1 □	Same day	H13011
	1	Yes No → Go to Question	See Note 2		2 □ 3 □	1 day 2-3 days	See Note 3
24.		st 12 months, when you <u>nee</u> n did you get care as soon Never			4	4-7 days 8-14 days 15-30 days 31 days or longer I had no appointments	in the last 12 months
	2 □ 3 □	Sometimes Usually	See Note 2	29.		ast 12 months, how man ency room to get care for	y times did you go to an r yourself?
	4 □ -6 □	Always I didn't need care right away condition in the last 12 mon	• •		1 <u> </u>	None 1	H13012
25.	an illnes: have to v	st 12 months, when you <u>nea</u> s, injury, or condition, how wait between trying to get c	long did you usually		3	2 3 4 5 to 9 10 or more	
	a provide	e r? Same day	H13008	30.	emerge	ency room), how many ti	ting times you went to an mes did you go to a doctor's
	2 □ 3 □	1 day 2 days	See Note 2		1	r clinic to get health car	•
	4 □ 5 □	3 days 4-7 days			1 □ 2 □	1	Question 36 H13013
	6 □	8-14 days 15 days or longer			3 	2 3	See Note 4
	-6	I didn't need care right away condition in the last 12 mon			5 □ 6 □	4 5 to 9	See Note 4
	 				7 🗖	10 or more	
26.	health ca	at 12 months, not counting t are right away, did you make Ith care at a doctor's office	any appointments for	31.	other h		n did you and a doctor or t specific things you could do
	-	Yes	H13009		1 🗆	Never	H13014
		No → Go to Question			3 🔲	Sometimes Usually	See Note 4
				I	4 🗖	Always	

27. In the last 12 months, not counting times you needed care

22. Why did you cancel or reschedule these appointments?

32. Choices for your treatment or health care can include choices about medicine, surgery, or other treatment. In the last 12 months, did a doctor or other health provider tell you there was more than one choice for your treatment or health				37.			get care for your	
	care?	H13015	See Notes 4 and 5		1 <u> </u>	1 2		H13020
	2 □ No →	Go to Question 35			3 🔲 4 🔲 5 🔲	3 4 5 to 9	Ī	See Notes 6 and 7
33.	In the last 12 months talk with you about t your treatment or he	the pros and cons of		20	6 □	10 or more		
	1 ☐ Definitely y 2 ☐ Somewhat		H13016	38.		ast 12 month arefully to yo		your personal doctor H13021
	3 ☐ Somewhat 4 ☐ Definitely n	no Se	e Notes 4 and 5		1	Never Sometime: Usually	s [See Notes 6 and 7
34.	i •	r health care, did a de choice you thought w	octor or other health	39.	In the la	Always I had no vi ast 12 month		your personal doctor
	Definitely y Somewhat Somewhat	yes no Se	H13017 ee Notes 4 and 5		explain	Never Sometime	Γ	y to understand? H13022
	4 ☐ Definitely no					Usually Always		See Notes 6 and 7
35.	care possible and 10 number would you u 12 months?) is the best health cause to rate all your he	re possible, what	40.		ast 12 month	sits in the last 12 s, how often did nat you had to sa	your personal doctor
	¹ □ 1	t health care possible	LI42040		1 □	Never Sometime:	. [H13023
	2		H13018 See Note 4		3 □ 4 □	Usually Always		See Notes 6 and 7
	4 □ 4 5 □ 5 6 □ 6		GCC NOIC 4		-6		sits in the last 12	months
	7 □ 7 8 □ 8			41.		ast 12 month enough time		your personal doctor
		health care possible			1 🗆	Never		H13024
	-6 □ I had no v	isits in the last 12 mor	ıths		2 □ 3 □	Sometime: Usually	S	See Notes 6 and 7
	YOUR	PERSONAL DOCTO	R		4 □ -6 □	Always I had no vi	sits in the last 12	months
36.	A personal doctor is checkup, want advice hurt. Do you have a	e about a health pro		42.			ides your persor H13025	See Notes 6, 7, and
	2 □ NO →	Go to Question 46			; -		23 10 24	

43.		st 12 months, how often did formed and up-to-date about		48.	In the last 12 months, how often was it easy to get appointments with specialists?			
		ctors or other health provid			appoint 1	Never		H13029
	1 □	Never Sometimes	H13026		2 □ 3 □	Sometimes Usually	;	See Note 9
	3 □	Usually Always	See Notes 6, 7, and 8		4	Always I didn't need a specialist in	n the last	12 months
44.	personal	y number from 0 to 10, whe doctor possible and 10 is the what number would you use 0. Worst personal doctor possible and 10 is the world you use 1. The world you use 1. The world you have the world you h	ne best personal doctor se to rate your personal	49. 50.	0	None Go to Quantum 1 specialists 2 3 4 5 or more specialists ant to know your rating of to often in the last 12 months 0, where 0 is the worst specialist possible, what is the specialist?	See She spec	H13030 Notes 9 and 10 ialist you saw any number from possible and 10 is
	10 □ -6 □ Did you this heal 1 □ 2 □	10 Best personal doctor pos I don't have a personal doct have the same personal doc	tor <u>before</u> you joined See Notes 6 and 8_01		0	0 Worst specialist possible po	See f	H13031 Notes 9 and 10
	1	A big problem A small problem	S13010	51.	-6 □ In gene	10 Best specialist possit I didn't see a specialist in ral, how would you rate you health?	the last 1	
Whi		Not a problem TING HEALTH CARE FROM swer the next questions, do n			emotion 1	nal health? Excellent Very good Good Fair Poor		S13B01
	Specialis	when you stayed overnight in sts are doctors like surgeons	a hospital. s, heart doctors, allergy	52.		ast 12 months, did you need ling for a <u>personal or famil</u>		
	doctors, skin doctors, and other doctors who specialize in one area of health care.			1 □ 2 □	Yes No → Go to Ques	tion 55	S13B02	
	to see a	st 12 months, did you try to specialist? Yes H13028	See Note 9	53.	In the la	ast 12 months, how much o he <u>treatment or counseling</u>	of a probl	
	2 🗖	No → Go to Question	on 51		1 🗆	A big problem		S13B03
					2 □ 3 □	A small problem Not a problem	See	Note 10_B1

54.	Using any number from 0 to 10, where 0 is the worst treatment or counseling possible and 10 is the best treatment or counseling possible, what number would you use to rate your treatment or counseling in the last 12 months?			is provi from a s In the la	ded in a regu specialist, phy ast 12 months	lar or routine o ysical therapy, , did you look	r equipment beyond wha office visit, such as care a hearing aid, or oxygen for information from you		
	○ □ 0 Worst treatment or cou	nseling possible			olan on how n rvice or equip		d have to pay for a health		
	1	S13B04		1 🔲	Yes No →	Go to Quest	tion 61		
	3	See Note 10_B1		 		H13036	See Note 13		
	5		60.	from yo	In the last 12 months, how often were you able to from your health plan how much you would have the health care service or equipment?				
	8			1 🔲	Never		H13037		
	10 ☐ 10 Best treatment or cour	nseling possible nseling in the last 12 months		2 □ 3 □	Sometimes Usually		See Note 13		
		isoming in the last 12 mentile		4 □ -6 □	Always	d a health care	service or equipment from		
	YOUR HEALTH F	PLAN				lan in the last 1			
Вуу	e next questions ask about your exper your health plan, we mean the health estion 3.		61.	medicir differen pharma	ne can be diffe at for prescrip acy.	erent for different tions filled by	ou pay for a prescription ent medicines, or can be mail instead of at the		
55.	In the last 12 months, did you try to tests, or treatment through your he			health p		nuch you woul	for information from you d have to pay for specific		
	1 ☐ Yes H13032	See Note 11		1 🗆	Yes	H13038	See Note 14		
	2 □ No → Go to Ques	tion 5/		2 🗖	No 🗕	Go to Quest	ion 63		
56.	In the last 12 months, how often w tests, or treatment you thought you health plan?		62.				ere you able to find out ou would have to pay for		
	health plan?	H13033				medications?			
	2 ☐ Sometimes	See Note 11		1 🔲	Never Sometimes	<u> </u>	H13039		
	3 □ Usually 4 □ Always			з 🔲	Usually		See Note 14		
	I didn't need care, tests, or treatment through my health plan in the last 12 months			4 □ -6 □		d prescription n ast 12 months	nedications from my health		
57.	In the last 12 months, did you look written materials or on the Internet		63.			, did you try to n's customer s	get information or help ervice?		
	plan works? H13034	See Note 12		1 🗆		H13040	See Note 15		
	2 □ No → Go to Ques	tion 59		2 🗖	No 🗕	Go to Quest	ion 66		
58.	In the last 12 months, how often di the Internet provide the informatio		64.		er service giv		d your health plan's rmation or help you		
	your plan works?	H13035		1	Never		H13041		
	1 □ Never 2 □ Sometimes			2 🗖	Sometimes		See Note 15		
	³ □ Usually	See Note 12		3 🔲	Usually Always	'			
	4 ☐ Always -6 ☐ I didn't look for information from my health plan in the last 12 months			-6 	•		s customer service in the		

65.	In the last 12 months customer service sta		your health plan's courtesy and respect?	71.	plan po	ssible and 10 is	s the best hea	alth pl	s the worst health an possible, what
	Never Sometimes	5	H13042			r would you use	-		•
	Usually Always		See Note 15		0 🔲	0 Worst 1	health plan po	022101	e
	,	my health plan's	customer service in the		2 🔲	2			H13048
	last 12 mor	nths			3 	3 4			
,,	le the leet 12 months	مانا الماما سيمير			5 6 	5 6			
00.	In the last 12 months forms to fill out?			1	7 🗖	7			
	¹ □ Yes	H13043	See Note 16		8 🔲	8 9			
	2 □ No →	Go to Question	on 68		10 🔲		nealth plan pos	ssible	
67.			e the forms from your						
	health plan easy to f	III OUL?	H13044			PRE	VENTIVE CA	RE	
	2 ☐ Sometimes 3 ☐ Usually	5	See Note 16			rare is medical c			
	4 □ Always -6 □ I didn't have	e any experience in the last 12 mo	s with paperwork for my		sical or b				edical problem. A ples of preventive
	1 1 1 1			72.	When o	did you last hav	e a blood pre	ssure	reading?
68.			payment. You may send		3 🔲	Less than 12			H13049
	in the claims yourse do this for you. In the		spitals, or others may s. did you or anyone		2 1 	1 to 2 years a More than 2 y			
	else send in any clai			7 72	Do you	know if your b	lood proceur	ic to	o high?
	1 Yes	H13045	See Note 17] 73.	bo you 1 □	know if your bl Yes, it is too l		15 10	H13050
	2 □ No -5 □ Don't know		uestion 71 uestion 71		2 🔲	No, it is not to			П13030
	1 1 1 1				3 🗖	Don't know			
69.			your health plan handle	74.	When o	did you last hav	e a flu shot?		
	your claims quickly?	? [H13046		4 🔲 3 🔲	Less than 12 1-2 years ago			H13051
	1 □ Never 2 □ Sometimes	<u>.</u> Г	See Note 17		2 🔲	More than 2 y	years ago		
	³ □ Usually	L	Gee Note 17		1 🗖	Never had a f	lu shot		
	¦ 4 □ Always -5 □ Don't know	1		75.		ou ever <u>smoked</u>	<u>l</u> at least 100	cigare	ettes in your entire
	-6 🗖 No claims v	were sent for me	in the last 12 months		life? □	Yes			H13052
	 				2 🗖	No			
70.	In the last 12 months your claims correctly		your health plan handle		-5	Don't know			
	1 □ Never	_	H13047	76.		now <u>smoke ci</u> g lays or not at al		e toba	acco every day,
	2 ☐ Sometime	s [See Note 17		4 🔲		• Go to Qu	estio	n 77
	3 □ Usually 4 □ Always	l	300 11010 17		3 🔲	Some days -	• Go to Qu	estio	n 77
	-5 ☐ Don't knov				2 -5 	Not at all • Don't know •	Go to QuGo to Qu		
	-6 □ No claims	were sent for me	e in the last 12 months	I			H13053	3	See Note 18

77.	In the last 12 months, how often we		83.	Are you	ı under age	40?			
	smoking or using tobacco by a doct	or or other health		¦1 🔲	Yes →	Go to (Duestion 85		H13060
	provider in your plan? Never	H13054		2 🗖	No	00 10 0		s 19A	, 19B, and 20
	2 ☐ Sometimes	See Note 18	84.	When v	vas the last	time your	breasts were	chec	ked by
	3 ☐ Usually			mammo	ography?	H1306	See N	otes '	19A, 19B, and
	4 □ Always			5 🗖	Within the	last 12 m	onths		
78.	In the last 12 months, how often wa	s medication		4 🔲	1 to 2 year				
70.	recommended or discussed by a do			3 🔲			go but less th	ian 5 y	ears ago
	provider to assist you with quitting			2 🔲		years ago			
	tobacco? Examples of medication are			1 🗖	Nevel Ha	d a mamm	ugraiii		
	nasal spray, inhaler, or prescription me	edication.	85.	Have yo	ou been pre	gnant in th	ne last 12 mo	nths (or are you
	¹ □ Never	H13055			nt now? ်	H13062			9A,19B, and 2
	² ☐ Sometimes			1 🔲	Yes. I am		III .		o Question 86
	Usually	See Note 18		2 🗖					/e been pregnar
	4 □ Always						s → <i>Go to</i>		
79.	In the last 12 months, how often did	vour doctor or other		3 🔲			ly pregnant, a		
	health provider discuss or provide r	nethods and strategies			pregnant	in the past	12 months	→ Go	to Question 88
	other than medication to assist you		86.	In what	trimester is	: VALIT NEG	mancy?	Г	L112062
	using tobacco? Examples of method telephone helpline, individual or group		00.	1			-		H13063
	program.	Couriselling, or cessation		1 🗖			12 weeks af <i>Question 88</i>	ter 1st	day of last
		H13056		2 🗖			3 th through 27	th wee	-k)
	1 □ Never 2 □ Sometimes	0 11 40		з 🗖			week until de		
	3 ☐ Usually	See Note 18					See Note:	s 19A	,19B, and 21
	4 □ Always		87.	In whic	h trimester	did you fir	st receive pr	enatal	care?
				4 🔲		ester (up t	o 12 weeks a	fter 1s	t day of last
00	On the days you smake or use tab	aga producto what			period)		1 Oth Hamannala O	7th	-14
δU.	On the days you smoke or use tobat type of product do you smoke or use			3 □ 2 □			13 th through 2 ^h week until d		
		H13057A-H13057D		1 🗆		eceive pre		Cliver	y)
	MARK ALL THAT APPLY.			' Г	H13064		ee Notes 19	Δ 10F	3 and 21
	△ □ Cigarettes	See Note 18		L	1113004		ee Notes 13	Α, 131	s, and z i
	B ☐ Dip, chewing tobacco, snuff	or snus				ABOUT	YOU		
	© ☐ Cigars Dipes, bidis, or kreteks (<i>Pip</i>	as includa hookahs Ridis							
	are small, brown, hand-rolle		88.	In gene	ral, how wo	uld you ra	te <u>your over</u>	all hea	<u>llth</u> ?
	and other southeast Asian			5 🔲	Excellent				10005
	clove cigarettes made in In	donesia that contain clove		4 🗆	Very good			H'	13065
	extract and tobacco.)			з 🔲	Good				
81.	Are you male or female? H130	See Note 19A		2 1 	Fair Poor				
	1 ☐ Male → Go to Qui	estion 88	89.				any activitie	s bec	ause of any
				impairn	nent or heal	ın probler	n? 		
82.	When did you last have a Pap smea	r test? H13059B		1 🔲	Yes			H	13066
	6 ☐ Within the last 12 months	See Notes 19A and 19B		2 🗖	No				
	5 ☐ 1 to 2 years ago	veare ago	90.	i In the la	ast 12 mont	hs. have v	ou seen a do	ctor o	r other health
	More than 2 but less than 3 More than 3 but less than 5		70.						or problem?
	5 or more years ago	jours ago		1 🗆	Yes				
	Never had a Pap smear tes	t		2 🔲	No 🗕	Go to	Question 92		
	1		ı	1	_			_	Net CO
							H13067	ıS	ee Note 22

91.	Is this a condition or problem that has		96. How much do you weigh without you	r shoes on?
	months? Do not include pregnancy or	menopause.	Please give your answer in pounds. F	Please write one number
	1	See Note 22	in each box.	H13072
			Example: 152 pounds	
ດວ	Do you now need or take medicine pre	ceribed by a dector?		
92.	Do not include birth control.	Scribed by a doctor?	1 5 2	
	1 □ Yes H13069	See Note 23		
	2 □ No → Go to Question	94	POUNDS	
	 		Your weight:	
93.	Is this medicine to treat a condition that			
	least 3 months? Do <u>not</u> include pregn			
	1 □ Yes H13070	See Note 23		
	1		POUNDS	
94.	Have you ever had any experience that	t was so frightening.	97. What is the highest grade or level of s	school that you have
,	horrible, or upsetting that, in the past r		completed?	SREDA
ΜΔΙ	RK "YES" OR "NO" FOR EACH.	S13B23-S13B26	1 □ 8th grade or less □	
1017 (1	TEO ON NO FOREMON		Some high school, but did no High school graduate or GEI	
a.	You have had nightmares about it or thou	YES NO	4 ☐ Some college or 2-year degr	
а.	about it when you did not want to?	1 2 2	5 □ 4-year college graduate More than 4-year college de	aree
b.	You tried hard not to think about it or wen	t	iviore than 4-year conlege de	gree
	out of your way to avoid situations that reminded you of it?	1 🔲 2 🔲	00 Are you of Hispanic or Lating origin o	r doccont?
C.	You have been constantly on guard,		98. Are you of Hispanic or Latino origin of	
d.	watchful, or easily startled? You felt numb or detached from others,	1 2 0	(Mark "NO" if not Spanish/Hispanic/Latino A □ No, not Spanish, Hispanic, or	
<u></u>	activities, or your surroundings?	1 🔲 2 🔲	No, not Spanish, Hispanic, or Yes, Mexican, Mexican Ameri	
			c ☐ Yes, Puerto Rican	
95.	How tall are you without your shoes or	1?	Yes, Cuban Yes, other Spanish, Hispanic,	, or Latino
	Please give your answer in feet and inc	chas Plaasa writa ana	H13073A-H13073E, H13073	See Note 24
	number in each box.	ches. Thease wine one	99. What is your race?	_
	Example: 5 feet, 6 inches	H13071F, H13071I	(Mark ONE OR MORE races to indicate	what you consider
			yourself to be.)	RRACEA-SRRACEE
	5 0 6		¡A □ White □ □ Black or African American	
			c 🗖 American Indian or Alaska Na	
	FEET INCHES		Asian (e.g., Asian Indian, Chir Japanese, Korean, Vietnames	
	V 111		■ Native Hawaiian or other Paci	
	Your height:		(e.g., Samoan, Guamanian, o	r Chamorro)
			100. What is your age now?	
			1 □ 18 to 24 □	
			2	SRAGE
	FEET INCHES		4 45 to 54	
			5 □ 55 to 64	
			6 □ 65 to 74 7 □ 75 or older	

101. Are you currently covered by Medicare?	106. Are you enrolled in Medicare Part D, also known as the Medicare Prescription Drug Plan?
1 ☐ Yes 2 ☐ No → Go to Question 107 -5 ☐ Don't know → Go to Question 107 H13074 See Note 25	1
102. Currently, are you covered by Medicare Part A? Medicare is the federal health insurance program for people aged 65 or older and for certain persons with disabilities. Medicare Part A helps pay for inpatient hospital care. 1	107. Using a scale of 1 to 5, with 1 being "strongly disagree" and 5 being "strongly agree", how much do you agree with the following statement: In general, I am able to see my provider(s) when needed? 1

APPENDIX A ANNOTATED QUESTIONNAIRE – QUARTER III

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

RCS: DD-HA(A) 1942







Health Care Survey of DoD Beneficiaries

A world-wide survey of beneficiaries eligible for health care coverage through the military health system

April 2013

PRIVACY ADVISORY

Providing information in this Survey is voluntary. There is no penalty nor will your benefits be affected if you choose not to respond, although maximum participation is encouraged so that the data will be complete and representative.

The Survey was written so that answers should not require you to provide any personally identifiable information (PII), but please be assured that any PII provided will be treated as confidential. Your responses are collected via a secure system which does not collect any information that could be used to determine your identity.

Answering the questions is voluntary; you may stop the Survey at any time.

SURVEY INSTRUCTIONS

Answer <u>all</u> the questions by checking the box to the left of your answer. You are sometimes told to skip over some questions in this survey. When this happens you will see an arrow with a note that tells you what question to answer next, like this:

\times	Yes	→ Go to Question 12
П	Nο	

Please return the completed questionnaire in the enclosed postage-paid envelope within <u>seven days</u>. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs) TMA/DHCAPE

c/o Ipsos Survey Processing Center PO Box 5030

Chicago IL 60680-4138

SURVEY STARTS HERE

As an eligible TRICARE beneficiary, <u>please complete this survey</u> even if you did not receive your health care from a military facility.

Please recognize that some specific questions about TRICARE benefits may not apply to you, depending on your entitlement and particular TRICARE program.

This survey is about the health care of the person whose name appears on the cover letter. The questionnaire should be completed by that person. If you are not the addressee, please give this survey to that person.

1.

Are you the person whose name appears on the cover								
letter?			H13001					
1 🔲	Yes → No →	Go to Question 2 on the Please give this question person addressed on the	nnaire to the					

2. By which of the following health plans are you currently covered?					For the remainder of this questionnaire, the term <u>health plan</u> refers to the plan you indicated in Question 3.					
	MARK A	LL THAT APPLY.	H13002A-H13002U	4.		any months or years in a row ha	ave you been in this			
	Militar	Military Health Plans			health plan? H13004 See					
	A ☐ TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas) C ☐ TRICARE Extra or Standard (CHAMPUS) N ☐ TRICARE Plus O ☐ TRICARE for Life P ☐ TRICARE Supplemental Insurance TRICARE Reserve Select TRICARE Retired Reserve				1	Less than 6 months 6 up to 12 months 12 up to 24 months 2 up to 5 years 5 up to 10 years 10 or more years				
	T □	9			YOU	JR HEALTH CARE IN THE LAS	T 12 MONTHS			
	COBRA-like premium-based health care program) Other Health Plans F Medicare			car	e you got	tions ask about your own health c when you stayed overnight in a l imes you went for dental care vis	hospital. Do <u>not</u>			
	G □ H □ I □	H ☐ Medicaid A civilian HMO (such as Kaiser)			In the la	o most often for your H13005				
	Other civilian health insurance (such as Blue Cross)				MARK	ONLY ONE ANSWER.				
	K	☐ The Veterans Administration (VA) ☐ Government health insurance from a country other than the US			A military facility – This includes: Military clinic, Military hospital, PRIMUS clinic, NAVCARE clinic A civilian facility – This includes: Doctor's office, Clinic, Hospital, Civilian TRICARE contractor Uniformed Services Family Health Plan facility					
3.	care in t		Ill or most of your health See Note 1		4 □ 5 □	(USFHP) Veterans Affairs (VA) clinic or I I went to none of the listed type				
	MARK C	and TRICARE Overseas) □ TRICARE Extra or Standard (CHAMPUS) □ TRICARE Plus			1 1 1 1 1 1	12 months				
	3				6. In the last 12 months, did you have an illness, injury, or condition that needed care right away in a clinic,					
	14 🔲 15 🔲	TRICARE Retired Reserve TRICARE Young Adult			1 D	ency room, or doctor's office? Yes	H13006			
	16 🔲	Continued Health Care Bend COBRA-like premium-based			2 🗖	No → Go to Question	See Note 2			
	4	Medicare (may include TRICARE for Life) Federal Employees Health Benefit Program (FEHBP) Medicaid A civilian HMO (such as Kaiser)		7.		n the last 12 months, when you <u>needed care right away,</u> now often did you get care as soon as you thought you				
	8 9 	Other civilian health insuran	In health insurance <i>(such as Blue Cross)</i> Services Family Health Plan (USFHP) Ins Administration (VA)		1 □	Never	H13007			
	10 🔲	The Veterans Administration			2 🔲 3 🔲	Sometimes Usually	See Note 2			
	-5 	than the US Not sure			4 □ -6 □	⁴ □ Always				

8.	In the last 12 months, when you needed care right away for an illness, injury, or condition, how long did you usually have to wait between trying to get care and actually seeing a provider?			emerge	ency room)	nths (not counting), how many times get health care fo	s did yo	ou go to a doctor's
	a provider:	H13008		1 	None	→ Go to Que	estion	19
	2 □ 1 day	See Note 2		3 🔲	1 2			H13013
	3 □ 2 days 4 □ 3 days			4 □ 5 □	3 4			See Note 4
	5 ☐ 4-7 days 6 ☐ 8-14 days 7 ☐ 15 days or longer 6 ☐ I didn't need care right away condition in the last 12 mon	,		6 🗆	5 to 9 10 or mo			
0	le the leet 12 mouths and counting the	h - 1:	14.			nths, how often di ider talk about sp		and a doctor or hings you could do
9.	In the last 12 months, not counting t health care right away, did you make your health care at a doctor's office	e any appointments for			ent illness Never			H13014
	1 □ Yes	H13009		2 🗆	Sometin Usually	nes		See Note 4
	2 □ No → Go to Question	See Note 3		4 🗆	Always			
10.	In the last 12 months, not counting t right away, how often did you get an health care at a doctor's office or clithought you needed? Never	appointment for your	15.	choices last 12 there w	s about me months, d	id a doctor or oth	or other er healt	can include r treatment. In the th provider tell you treatment or health
	2 Sometimes	See Note 3		care?	.,	H13015		See Notes 4 and
	3 ☐ Usually 4 ☐ Always -6 ☐ I had no appointments in the	e last 12 months		2 🗆	Yes No •	Go to Quest	ion 18	
11.	In the last 12 months, not counting health care right away, how many <u>d</u> have to wait between making an <u>ap</u>	l <u>ays</u> did you usually	16.	talk wit	h you abo	nths, did a doctor ut the pros and co health care?		er health provider each choice for
	seeing a provider?	H13011		1 🗆	Definite			H13016
	1 ☐ Same day 2 ☐ 1 day	See Note 3		3 🗆	Somewh Somewh	nat no	Se	e Notes 4 and 5
	3	e last 12 months	17.	for you	r treatmen	nths, when there v	lid a do	re than one choice octor or other health as best for you?
12.	In the last 12 months, how many tim			1 🔲	Definitel Somewh			H13017
	emergency room to get care for you	1 Sell (3 □	Somewh	nat no	Se	e Notes 4 and 5
	2	H13012		4 🗖	Definitel	у по		

□ 7 **□**

10 or more

	care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?				with bathing or dressing, and help with basic household tasks.				
	0	0 Worst health care pos 1 2	sible H13018				ths, <u>did you need</u> you home health		
	3 🔲	3	See Note 4	2 🗖	No -				
	4 □ 5 □	4 5			 		S13C13		See Note 5A3
	6	6 7 8			to get t	e last 12 months, how much of a problem, if any, was it the home health care you needed through your health			
	9 9 10 10 Best health care possible -6 1 had no visits in the last 12 months				plan?	A bia pro	مماما		S13C14
					2 🔲	A big pro A small p			See Note 5A3
					3 □ -6 □	Not a problem I didn't need home health care		oro or	
19.	In the last 12 months, did you have a health problem for which you needed special medical equipment, such as a cane, a wheelchair, or oxygen equipment?				-6	last 12 m		are or	assistance in the
	1 Yes					YOL	JR PERSONAL DO	CTO	₹
	2 🔲	No → Go to Question		ı					
		S13C09	See Note 5A1	25.	A perso	onal doctor	is the one you wo	ould se	ee if you need a
- 1	In the last 12 months, how much of a problem, if any, was it to get the special medical equipment you needed through your health plan?						vice about a healtl e a personal docto		lem, or get sick or
	1	-	S13C10		1 🔲	Yes	H13019		See Note 6
		A big problem A small problem Not a problem	See Note 5A1		2 🗖	No 🖹	Go to Questi	on 35	
	-6	I didn't need any special me last 12 months	dical equipment in the	26.			ths, how many tim get care for your		l you visit your
					∘ □	None	→ Go to Que	stion :	33
21.	needed s	: 12 months, did you have a oecial therapy, such as phy			1	1 2			H13020
	speech th				3 ☐ 4 ☐	3 4		5	See Notes 6 and 7
		Yes No → <i>Go to Questid</i>	on 23		5 🗆	5 to 9			
		S13C11	See Note 5A2		6 🗖	10 or mo	re		
22.	to get the	12 months, how much of a special therapy you neede		27.		ast 12 mon arefully to	ths, how often did	your	personal doctor
	plan?	A bis washing	S13C12		1 🗆	Never	you:		H13021
	2 🔲	A small problem	See Note 5A2		2	Sometim Usually	nes	5	See Notes 6 and 7
	-6 □ I	Not a problem I didn't need any special therapy in the last 12 months			4	Always I had no visits in the last 12 months			

23. Home health care or assistance means home nursing, help

18. Using any number from 0 to 10, where 0 is the worst health

20.	explain things in a way that was easy to understand?					33.	person	al doctor p	ossi		the b	est personal doctor	
	1 □	Never Sometin	nes		H13022	possible, what number would you use to doctor?					Tale your personal		
	3 □	Usually	1103		See Notes 6 and 7		1 🗆	0 Worst	st personal doctor poss			ble	
	4 🔲 -6 🔲	Always I had no	visits i	n the last 12	months		2 🗖	2				H13027	
						3 🔲	3				See Note 6		
29.	In the last 12 months, how often did your personal doctor show respect for what you had to say?						5	5 6 7					
	1 🔲 2 🔲	Never Sometin	nes o visits in the la		H13023	8							
	3 □ 4 □	Usually Always			See Notes 6 and 7		10 -6 			rsonal doctor possible a personal doctor		le	
	-6			n the last 12	months								
						34.		u have the salth plan?	same	e personal do	ctor	before you joined	
30.	In the last 12 months, how often di spend enough time with you?						1 🗆	Yes	→	Go to Question 36			
	1 🗖	Never		L	H13024		2 🗖	No		S13009		See Notes 6 and 8_0	
	2	Sometin Usually Always	ies	L	See Notes 6 and 7	35.	Since you joined your health plan, how much of a problem, any, was it to get a personal doctor you are happy with?						
	-6 □ I had no visits in the last 12 months					1 🗖	A big pro A small p				S13010		
							3 🗖	Not a pro				See Note 8_01	
31.					re from a doctor or other al doctor?								
	health provider besides your personal doctor? 1 Yes						GETTING HEALTH CARE FROM A SPECIALIST						
	2 🗖	No	→ Go to C	Go to Que			When you answer the next questions, <u>do not</u> include de care you got when you stayed overnight in a hospital.						
				H13025	See Notes 6, 7, and	8 car							
32.	In the last 12 months, how often did your personal doctor seem informed and up-to-date about the care you got from these doctors or other health providers?					36.	doctors		tors,	and other do		eart doctors, allergy s who specialize in	
	1 🗆	Never	J. 1101 11		H13026	7			ths, did you try to make any appointments				
	2 □ 3 □	Sometin Usually	nes	L [to see a	a specialist Yes	۱؛ ل	H13028		See Note 9	
	4 🗖	Always		L	See Notes 6, 7, and 8		2 🗖	No =	→	Go to Questi		0	
						37.		In the last 12 months, how often was it easy to get appointments with specialists?					
							1	Never	- 1			H13029	
								Sometim Usually	nes			See Note 9	
							4 □ -6 □	Always	ieed :			ast 12 months	

38.	How many specialists have you see	43.	Using <u>any number from 0 to 10</u> , where 0 is the worst treatment or counseling possible and 10 is the best					
	○ □ None → Go to Que	stion 40		treatment or counseling possible and 1013 the best				
	1 ☐ 1 specialist 2 ☐ 2	H13030		use to r months	to rate your treatment or counseling in the last 1 ths?			
	3 □ 3 4 □ 4	See Notes 9 and 10		0 🗆	0 Wors	st treatment or couns	eling possible	
	5 or more specialists			2 🔲	2		S13B04	
39.	We went to know your rating of th	o openialist you saw		4 🔲	4		See Note 10_B1	
37.	We want to know your rating of the most often in the last 12 months. It is to 10, where 0 is the worst special the best specialist possible, what to rate the specialist? Output Output Worst specialist possible is the special structure.	Using any number from alist possible and 10 is number would you use		5		t treatment or counse treatment or counse	ling possible ling in the last 12 months	
	2	H13031						
	4 🗆 4	See Notes 9 and 10						
	5				YOUR HEALTH PLAN			
	7	 The next questions ask about your experience with your health By your health plan, we mean the health plan you marked in Question 3. 44. In the last 12 months, did you try to get any kind of care tests, or treatment through your health plan? 						
40.	In general, how would you rate your emotional health?		1 	Yes	H13032	See Note 11		
	1 Excellent 2 Very good	S13B01		2 🗖		Go to Question	n 46	
	3 ☐ Good 4 ☐ Fair 5 ☐ Poor		45.	tests, o	st 12 months, how often was it easy to get the ca			
				health p	Never		H13033	
41.	In the last 12 months, did you need counseling for a personal or family		2 🔲	Sometir Usually		See Note 11		
	¹ □ Yes	S13B02		4	Always			
	² □ No → Go to Questi	See Note 10_B1				need care, tests, or treatment through my plan in the last 12 months		
42.	In the last 12 months, how much of to get the <u>treatment or counseling</u> y health plan?	46.		materials	et 12 months, did you look for any information aterials or on the Internet about how your he			
	1 ☐ A big problem	S13B03		pian w	Yes [H13034	See Note 12	
	2 ☐ A small problem 3 ☐ Not a problem	See Note 10_B1		2 🗖	No	→ Go to Question 48		
				;				

			the information	you needed about how		from yo	ur health	plan's	customer se	ervice?	
	your plan	works?		H13035		1 🗖	Yes				
		Never		1110000		2 🗖	No _	<u>→</u>	Go to Questi	on 55	
	ll .	Sometimes Usually		See Note 12		1 		H	13040	See Note	e 15
	4 -6 	Always		from my health plan in the	53.		er service			your health p nation or help H1304	you
10	Somotimo	os pooplo p	and corvices or	equipment beyond what		1 🗖	Never		F		
40.	is provide	ed in a regu	lar or routine of	ffice visit, such as care a hearing aid, or oxygen.		2	Sometir Usually Always	,	L	See Note	e 15
	health pla		nuch you would	or information from your d have to pay for a health		-6		call my		customer serv	vice in the
	1	Yes No →	Go to Questi	on 50	54.					your health pl	
			H13036	See Note 13		1 🗆	Never		a cat you wa	H130	
49.	from your	r health pla	n how much yo	re you able to find out u would have to pay for a		2 □ 3 □	Sometir Usually	,		See No	te 15
	i I	re service o Never	or equipment?	H13037		4 □ -6 □		call my		customer serv	vice in the
		Sometimes					last 12 ı	month	S		
	l	Usually Always		See Note 13		1 1 1 1					
		•	d a health care s	service or equipment from	55.				lid your healt	h plan give yo	u any
			olan in the last 1	• •		forms to	o fill out? Yes		H13043	See I	Note 16
Ε0		معماه طلامم				2 🗖	No •	→	Go to Questi	on 57	
50.				ou pay for a prescription ent medicines, or can be		1 1 1 1					
	different f	for prescrip		nail instead of at the		 					
	pharmacy				56.		ist 12 mor olan easy			e the forms fr	om your
				for information from your displayed to be a displayed to be a displayed to be a displayed to the formation from your displ		1 🔲	Never		out.	H130	044
		ion med <u>icin</u>	es?			2 🔲	Sometin			See No	ote 16
		Yes No →	H13038 Go to Questi	See Note 14		3 □ 4 □	Usually Always				
						-6			ny experience the last 12 mo	es with paperw onths	ork for my
51.				re you able to find out u would have to pay for		 					
			medications?	a modula mare to pay to:	57.					oayment. You	
	1 🔲	Never		H13039						ospitals, or oth s, did you or a	
		Sometimes	Ļ						to your heal		
		Usually Always	L	See Note 14		1 🗖	Yes	H	113045	_	Note 17
	-6	I didn't need		edications from my health		2 □ -5 □	No Don't kr			uestion 60 uestion 60	
		plan in the l	last 12 months			, ~ L	ווטטונאו	IUW	<i>→ GU 10 Q1</i>	นธรณบท ชีบ	

47. In the last 12 months, how often did the written material or

52. In the last 12 months, did you try to get information or help

58.		12 months, how often did	your health plan handle			estions are about differences to the lead at		
	your claims	s quickly? lever	H13046		idosco	er tests include blood st opy.	oor lesis, c	эюпоscopy,ana
	² □ S	ometimes Isually Iways	See Note 17	' 5	special	d stool test is a test th	by a doct	or or other health
	-5 □ D	on't know	in the last 12 months			sional to determine whou ever had this test u		
	-6 □ N	lo claims were sent for me	In the last 12 months	1	1 🔲	Yes		
59.		12 months, how often did s correctly?	your health plan handle		2	No →	Go to Que Go to Que	
	1	Never	H13047					s 17_Q0 and 17_Q1
	່3 🔲 ເ	Sometimes Usually Always	See Note 17			ong has it been since y sing a home kit?	ou had yo	our last blood stool
	-5 🔲 [Don't know No claims were sent for me	e in the last 12 months			Less than 12 mont At least one year b At least 2 years bu	out less tha	
60.	plan possib	number from 0 to 10, whe ble and 10 is the best heal buld you use to rate your I	lth plan possible, what		1	5 or more years ag Never had a blood Don't know	JO	o yeurs age
	∘ □ 0	Worst health plan po	essible	1		S13Q02	See Note	s 17_Q0 and 17_Q1
	1		H13048		ighted signs c	idoscopy and colonos I tube is inserted in the of cancer or other hea of these exams?	e rectum t	o view the colon for
	4 □ 4 5 □ 5 6 □ 6				1 	Yes		
	7 □ 7 8 □ 8			1	²		Go to Que Go to Que	
	9 1 9 10		sible		Ĺ	S13Q03		es 17_Q0 and 17_Q2
		DDEVENTIVE CAL). 			noidoscopy is limited t ally done without anes		er part of the colon and ow long has it been
		PREVENTIVE CAR	KE.	S	since y	you had your last sign	noidoscop	y?
maii phy:	ntain your go sical or blood	is medical care you receive ood health or prevent a futu d pressure screening are e	ıre medical problem. A		1	Less than 12 mont At least one year b At least 2 years bu	out less tha t less than	
care				1	4 -6 	5 or more years ag Never had a sigmo		S13Q04
61.	,	ou last have a blood pres	ssure reading?	1	5 🗆	Don't know		utes 17_Q0 and 17_Q2
	2 □ 1	ess than 12 months ago to 2 years ago	H13049				colon is	examined and patients
	!	lore than 2 years ago		r	nake t			ns to relax them and it been since you had
62.		ow if your blood pressure)	our la	ast colonoscopy?		
	2 🗖 N	es, it is too high lo, it is not too high	H13050		1 🔲	Less than 12 mont		
	3 □ D	on't know			2 3 	At least one year b At least 2 years bu		
63.	Are you un	der age 50?		i i	4 🔲	At least 5 years bu	t less than	
	1 □ Y 2 □ N	Tes → Go to Question	n 69		5 -6 -5 	10 or more years a Never had a colon Don't know		S13Q05
		S13Q08	See Note 17_Q0		~ ப	DOLL KILOW	See No	otes 17_Q0 and 17_Q2

Less than 12 months ago	09.		a you last have a liu shot?		75.				products, what	
Never had a flu shot 1				H13051		•	•		H13057A-H13057D	
70. Have you ever smoked at least 100 cigarettes in your entire life?						I .		acco, snuff or s		
71. Do you now smoke cigarettes or use tobacco every day, some days or not at all? 4	70.	life? 1 □ 2 □	Yes No			□□	Pipes, bidis, or k are small, brown and other southe clove cigarettes	n, hand-rolled cig east Asian coun made in Indone	garettes from India tries. Kreteks are	
some days or not at ali? 4					76.	Are you m	nale or female?	H13058	See Note 19A	
77. When did you last have a Pap smear test? H13058	71.			tobacco every day,		1		Go to Questio	n 83	_
See Note 18 See Note 19		3 🔲	Some days → Go to Ques	stion 72	77.	I I	-		? H13059B]
72. In the last 12 months, how often were you advised to quit smoking or using tobacco by a doctor or other health provider in your plan?						5 🗖	1 to 2 years ago			
 72. In the last 12 months, how often were you advised to quit smoking or using tobacco by a doctor or other health provider in your plan?			H13053	See Note 18						
73. In the last 12 months, how often was medication recommended or discussed by a doctor or health provider to assist you with quitting smoking or using tobacco? Examples of medication are: nicotine gum, patch, nasal spray, inhaler, or prescription medication. 1	72.	smoking	or using tobacco by a docto							
See Note 18 2		-	•	H13054	78.	Are you u	nder age 40?			7
73. In the last 12 months, how often was medication recommended or discussed by a doctor or health provider to assist you with quitting smoking or using tobacco? Examples of medication are: nicotine gum, patch, nasal spray, inhaler, or prescription medication. 1		3 🔲	Usually	See Note 18		! —] 1
 73. In the last 12 months, how often was medication recommended or discussed by a doctor or health provider to assist you with quitting smoking or using tobacco? Examples of medication are: nicotine gum, patch, nasal spray, inhaler, or prescription medication. 1		4 🔲	Always		79	When was	s the last time vo			J
recommended or discussed by a doctor or health provider to assist you with quitting smoking or using tobacco? Examples of medication are: nicotine gum, patch, nasal spray, inhaler, or prescription medication. 1	72	In the lee	t 12 months how often was	modication		mammogr	raphy? H1	3061 See I		20
Assist you with quitting shoking of using tobacco? Examples of medication are: nicotine gum, patch, nasal spray, inhaler, or prescription medication. 1 □ Never	13.	recomme	ended or discussed by a doc	tor or health provider to				2 months		
inhaler, or prescription medication. 1						3 □	More than 2 yea		han 5 years ago	
3 □ Usually 4 □ Always 80. Have you been pregnant in the last 12 months or are you pregnant now? H13062 See Notes 19A,19B, and 21 1 □ Yes, I am currently pregnant. but have been pregnant in the past 12 months, how often did your doctor or health provider discuss or provide methods and strategies other than medication to assist you with quitting smoking or using tobacco? Examples of methods and strategies are: telephone helpline, individual or group counseling, or cessation program. 1 □ Never 2 □ Sometimes 3 □ Usually 4 □ Always 81. In what trimester is your pregnancy? H13063 1 □ First trimester (up to 12 weeks after 1st day of last period) → Go to Question 83 2 □ Second trimester (13th through 27th week) 3 □ Third trimester (28th week until delivery)				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
3 ☐ Usually 4 ☐ Always See Note 18 Pregnant now? H13062 See Notes 19A,19B, and 21 1 ☐ Yes, I am currently pregnant → Go to Question 81 2 ☐ No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 82 3 ☐ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 In what trimester is your pregnancy? H13063 In what trimester (up to 12 weeks after 1st day of last period) → Go to Question 83 2 ☐ Second trimester (13th through 27th week) 3 ☐ Third trimester (28th week until delivery)				H13055	80	Have you	been pregnant i	in the last 12 m	onths or are you	
74. In the last 12 months, how often did your doctor or health provider discuss or provide methods and strategies other than medication to assist you with quitting smoking or using tobacco? Examples of methods and strategies are: telephone helpline, individual or group counseling, or cessation program. 1 □ Never □ Sometimes 3 □ Usually 4 □ Always 1 □ See Note 18 1 □ Yes, I am currently pregnant → Go to Question 81 2 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 1 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 2 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 3 □ No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 83 4 □ No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 83 4 □ No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 83 4 □ No, I am not currently pregnant, but have been pregnant in the past 12 months → Go to Question 83 5 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 5 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 5 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 5 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 5 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 5 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 6 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 6 □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 6 □ No, I am not currently pregnant, and have not		3 □	Usually	See Note 18	00.					1
 74. In the last 12 months, how often did your doctor or health provider discuss or provide methods and strategies other than medication to assist you with quitting smoking or using tobacco? Examples of methods and strategies are: telephone helpline, individual or group counseling, or cessation program. 1 □ Never □ Never □ Never □ No, I am not currently pregnant, and have not been pregnant in the past 12 months → Go to Question 83 81. In what trimester is your pregnancy? □ H13063 1 □ First trimester (up to 12 weeks after 1st day of last period) → Go to Question 83 2 □ Second trimester (13th through 27th week) 3 □ Third trimester (28th week until delivery) 		4 ⊔	Always			:				<u> </u>
provider discuss or provide methods and strategies other than medication to assist you with quitting smoking or using tobacco? Examples of methods and strategies are: telephone helpline, individual or group counseling, or cessation program. 1 □ Never	74.	In the las	st 12 months, how often did v	our doctor or health		i	in the past 12 mo	onths 🕳 <i>Go to</i>	Question 82	п
1 □ Never 2 □ Sometimes 3 □ Usually 4 □ Always 81. In what trimester is your pregnancy? H13063 1 □ First trimester (up to 12 weeks after 1st day of last period) → Go to Question 83 2 □ Second trimester (13th through 27th week) 3 □ Third trimester (28th week until delivery)		provider than med	discuss or provide methods dication to assist you with qu	and strategies other uitting smoking or using		A CONTRACTOR OF THE CONTRACTOR		J 1 U		3
1 □ Never 2 □ Sometimes 3 □ Usually 4 □ Always H13056 H13056 1 □ First trimester (up to 12 weeks after 1st day of last period) → Go to Question 83 2 □ Second trimester (13th through 27th week) 3 □ Third trimester (28th week until delivery)			· · · · · · · · · · · · · · · · · · ·	or cessation program.	81.	In what tri	mester is your p	oregnancy?	H13063	
3 ☐ Usually 4 ☐ Always See Note 18 See Note 18 See Note 18 See Note 18 2 ☐ Second trimester (13th through 27th week) 3 ☐ Third trimester (28th week until delivery)				H13056					fter 1st day of last	ı
3 ☐ Third trimester (28 th week until delivery)		з 🔲	Usually	See Note 18						
Labe Miles Ide Ide ann 711		→ ⊔	niways L					28 th w <u>eek until d</u>	elivery)	

	¦ 4 🔲	First trimes	ster (up to 12 weeks afte	er 1st day of last	horrible, or upsetting that, in the past mon					month	<u>ı</u>	
	3 🗖	period) Second trir	mester (13th through 27th	week)	MARI	C "YES" OF	R "NO" F	OR EACI	Н.	5	313B23-S	13B26
	2 🗖		ster (28 th week until deli	very)							YES	NO
	¦1	Did not rec H13064	eive prenatal care See Notes 19A,	19B. and 21		ou have ha				ought	1 🗆	2 🗆
			,	,		ou tried ha				nt		_
			ABOUT YOU		r	out of your v eminded yo	ou of it?				1 🗆	2 🗖
83.	In gene	ral, how would	d you rate <u>your overall</u>	health?	V	ou have be	easily star	rtled?			1 🗖	2 🗖
	5 □	Excellent Very good		H13065		ou felt num					1 🔲	2 🗖
	3	Good Fair Poor				low tall are					Please w	rite one
	1 1 1 1 1					number in			set and ii		3071F, H	
84.		u limited in any nent or health	y way in any activities I problem?	pecause of any		Example	e: 5 feet, d	6 inches				1007 11
	1 🔲	Yes No		H13066		5		0	6			
	1 1 1 1 1					FEET		INCH	ES			
85.			, have you seen a doctomes for the same cond			Your he	eight:					
	1 🗆	Yes No →	Go to Question 87									
	! ! !		H13067	See Note 22		FFFT		INOL	F0			
86.			problem that has laste ude pregnancy or men			FEET		INCH	ES			
	1 🗖	Yes	H13068	See Note 22	│ 91. H	ow much	do you w	e <mark>igh wit</mark> l	hout you	ır shoe	es on?	
	2 🗖	No		000 11010 22		Please giv in each bo	-	swer in p	ounds.	Please	write one	number
	 						mple: 152	pounds			H1307	72
87.		now need or t include birth o		ed by a doctor?	_		1	5	2			
	1 🔲 2 🔲	Yes No →	Go to Question 89	See Note 23]		_		~			
	! ! !						PC	OUNDS				
	1 1 1 1					You	r weight:					
88.			eat a condition that has not include pregnancy									
	1 🔲	Yes No	H13070	See Note 23]							
	. -						PC	DUNDS				

89. Have you ever had any experience that was so frightening,

82. In which trimester did you first receive prenatal care?

92.	What is the highest grade or level of completed?					ered by Medicare ance program for pe	Part B? Medicare is eople aged 65 or
	1 ☐ 8th grade or less 2 ☐ Some high school, but did r 3 ☐ High school graduate or GE 4 ☐ Some college or 2-year dec	ED	old he	der and elps paj ertain o	d for certain per y for doctor's s ther services.	rsons with disabilitie	es. Medicare Part B hospital services, and
	5 ☐ 4-year college graduate		2			covered by Medicar	
	6 ☐ More than 4-year college d	eyree	1			H13076	See Note 25
	Are you of Hispanic or Latino origin of Mark "NO" if not Spanish/Hispanic/Latin		Ch	noice p	olans. Are you	the new name for enrolled in a Medi sometimes known a	icare Advantage
	A ☐ No, not Spanish, Hispanic, o		1		Yes		H13077
	B ☐ Yes, Mexican, Mexican Ame C ☐ Yes, Puerto Rican		-5		No Don't know		See Note 25
	P ☐ Yes, Cuban F ☐ Yes, other Spanish, Hispanic	or Latino	100. Cu	urrently	y, are you cove	ered by Medicare s	supplemental
	H13073A-H13073E, H13073	See Note 24				supplemental insural	nce, also called om private insurance
94.	What is your race?		co	mpanie	es and cove <u>rs s</u>	some of the costs no	
	(Mark ONE OR MORE races to indicate	e what you consider		edicare —		H13078	See Note 25
	vourself to be.)	SRRACEA-SRRACEE	1		Yes, I am nov insurance	covered by Medic	are supplemental
	A □ White □	THU TOLLY ON TOLL	2		No, I am not o	covered by Medicar	e supplemental
	Black or African American C ☐ American Indian or Alaska N	ative			insurance		
	□ □ Asian (e.g., Asian Indian, ChJapanese, Korean, Vietname					dicare Part D, also	known as the
	■ Dative Hawaiian or other Page ■ Example 1 ■ Native Hawaiian or other Page ■ Native Hawaii	cific Islander	IVIE		e Prescription Yes	H13079	See Note 25
	(e.g., Samoan, Guamanian,	or Chamorro)	2		No L	1110070	000 11010 20
05			-5		Don't know		
95.	What is your age now?						
	1	SRAGE				, with 1 being "stro e", how much do y	ongly disagree" and
	3 □ 35 to 44 4 □ 45 to 54		fol	llowing	g statement: In	general, I am able	
	5 □ 55 to 64				(s) when need		S13011
	6 □ 65 to 74 7 □ 75 or older		1 2		1 Strongly dis2 Disagree	sagree L	
			3		3 Neither agr	ee nor disagree	
96.	Are you currently covered by Medica	re?	5		4 Agree5 Strongly ag	ree	
	1 ☐ Yes						
	1	restion 102 restion 102				, with 1 being "con	
	H13074	See Note 25				ng "completely sat all, with the health	
97.	<u> </u>				our last visit?		S13014
	the federal health insurance program fo	r people aged 65 or older	1 2		1 Completely2 Somewhat		
	and for certain persons with disabilities. pay for inpatient hospital care.	iviedicare Part A nelps	3		3 Neither sat	sfied nor dissatisfie	ed
	1 ☐ Yes, I am now covered by M		4 5		4 Somewhat5 Completely		
	2 No, I am not covered by Med			_	o completely	Callonou	
	' I ∐12	1075 See Note 25	I i				

THANK YOU FOR TAKING THE TIME TO COMPLETE THE

SURVEY! Your generous contribution will greatly aid efforts to improve the health of our military community.

Return your survey in the postage-paid envelope. If the envelope is missing, please send to:

Office of the Assistant Secretary of Defense (Health Affairs) TMA/DHCAPE c/o Ipsos Survey Processing Center PO Box 5030 Chicago, IL 60680-4138

Questions about the survey?

Email: dod.health@ipsos-research.com

Toll-free phone (in the US, Puerto Rico and Canada):

1-877-236-2390, available 24 hours a day

Toll-free fax (in the US and Canada): 1-800-409-7681

International Toll-Free numbers:

Germany: 0 800 182 1532 Great Britain: 008 234 7139 Japan: 0053 11 30 814 South Korea: 003 0813 1286 Mexico: 001 877 238 5171 Philippines: 1 800 1116 2366

When calling or writing, please provide your name, address, and the 8-digit number above your address on the envelope.

Questions about your TRICARE coverage?

For additional information on TRICARE, or if you are not sure about your benefits, or if you don't have a primary care manager; contact the TRICARE Service Center in your region:

North: 1-877-874-2273 South: 1-800-444-5445 West: 1-888-874-9378 Outside the US: 1-888-777-8343

The website is:

www.tricare.osd.mil/tricareservicecenters

Veterans: Contact the US Department of Veterans Affairs at

1-877-222-VETS; or go to www.va.gov

$\label{eq:appendix} \textbf{APPENDIX B}$ Coding Scheme and Coding Tables - Quarter I

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

QUARTER I

2013 HEALTH CARE SURVEY OF DOD BENEFICIARIES (HCSDB) CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

SAS	ASCII/EBCDIC	
Numeric	Numeric	Description
	-9	No response
О.	-7	Out of range error
.N	-6	Not applicable or valid skip
.D	-5	Scalable response of "don't know" or "not sure"
.I	-4	Incomplete grid error
.C	-1	Question should have been skipped

Missing values '.' and incomplete grids '.I' are encoded prior to implementation of the Coding Scheme Notes (see below).

Coding Table for Note 1_Q1: H13003, H13004, S13AA01, S13AA02A-S13AA02W, S13AA03, S13AA04A-S13AA04E,S13AA05

N1_Q1	H13003	H13004	S13AA01-S13AA05	H13003	H13004	S13AA01-S13AA05	*
	is:	is:	are:	is coded as:	is coded as:	are coded as:	
1	1-16: Health plan or -5: not sure	1- 3: <2 years or missing response	Any value	Stands as original value	Stands as original value	Stands as original value	
2	1-16: Health plan or -5: not sure	4- 6: >=2 years	Any value	Stands as original value	Stands as original value	.N: Valid skip if missing or unmarked; .C: question should be skipped if marked	F
3	-6: No usage in past 12 months	Any value	Any value	Stands as original value	.N: Valid skip if missing .C: question should be skipped if marked	Stand as original value	F
4	Missing response	1-3: <2 years or missing response	Any value	Stands as original value	Stands as original value	Stands as original value	
5	Missing response	4-6: >=2 years	Any value	Stands as original value	Stands as original value	.N: Valid skip if missing or unmarked; .C: question should be skipped if marked	F

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 1_AA1:

S13AA01, S13AA02A-S13AA02W, S13AA03, S13AA04A-S13AA04E, S13AA05

N1_AA1	S13AA01	S13AA02A-	S13AA01	S13AA02A-S13AA05	*
	is:	S13AA05	is coded as:	are coded as:	
		are:	T-	.	
1	.N: Valid skip, or	.N: Valid skip;	Stands as	Stand as original value	
	.C: question should be	.C: question	original value		
	skipped	should be skipped			
2	1-16: Health plan or -	Any value	Stands as	Stand as original value	
	5: not sure		original value		
3	-6: No prior health	At least one is	.: Missing	Stand as original value	В
	plan	"marked"			
4	-6: No prior health	"All are blank,	.N: Valid skip	.N: Valid skip if	F
	plan	NA, or don't	1	missing or unmarked;	
		know"		.C: question should be	
				skipped if marked	
5	Missing response	Any value	Stands as	Stand as original value	
			original value		
		<u> </u>			

st Indication of backward coding (B) or forward coding (F).

Definition of "All are blank, NA, or don't know" in Coding Table for Note1_AA1: Responses to S13AA02A-S13AA02W are all missing or unmarked, and responses to S13AA03-S13AA05 are all missing, don't know, or NA.

Definition of "marked" in Coding Table for Note 1_AA1:

Any pattern of marks outside the definition "All are blank, NA, or don't know".

Coding Table for Note 2: H13006, H13007, H13008

N2	H13006	H13007-H13008	H13006	H13007-H13008	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	"All are blank"	Stands as original value	Stand as original value	
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	1: Yes	"One marked, and one NA"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
4	1: Yes	At least one is "marked"	Stands as original value	Stand as original value	
5	2: No	"One marked, and one NA"	Stands as original value	.C: Question should be skipped if marked	F
6	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as original value otherwise	B F
7	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
8	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 2:

Responses to H13007-H13008 are all missing.

Definition of "blank or NA" in Coding Table for Note 2:

All of the following are true: H13007-H13008 are a combination of not applicable (-6) or missing.

Definition of "one marked and one NA" in Coding Table for Note 2:

H13007-H13008 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of "marked" in Coding Table for Note 2:

Any pattern of marks outside the definitions "all are blank", "one marked and one NA", and "blank or NA".

Coding Table for Note 3: H13009, H13010, H13011

N3	H13009	H13010-H13011	H13009	H13010-H13011	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	"All are blank"	Stands as original value	Stand as original value	
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if	B F
3	1. V	"On a month of and an a	Ctanda as aniainal salas	marked	F
3	1: Yes	"One marked and one NA"	Stands as original value	.: Missing if –6; stand as original value otherwise	Г
4	1: Yes	At least one is "marked"	Stands as original value	Stand as original value	
5	2: No	"One marked and one NA"	Stands as original value	.C: Question should be skipped if marked	F
6	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as original value otherwise	B F
7	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
8	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 3:

Responses to H13010-H13011 are all missing.

Definition of "blank or NA" in Coding Table for Note 3:

All of the following are true: H13010-H13011 are a combination of not applicable (-6) or missing.

Definition of "one marked and one NA" in Coding Table for Note 3:

H13010-H13011 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of "marked" in Coding Table for Note 3:

Any pattern of marks outside the definitions "all are blank", "one marked and one NA", and "blank or NA".

Coding Table for Note 4: H13013, H13014-H13018

N4	H13013	H13014-H13018	H13013	H13014-H13018	*
	is:	are:	is coded as:	are coded as:	
1	1: None	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
2	2-7: Visits, or .: missing	"Blank or NA"	1: None	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	2-7: Visits	At least one is "marked" or "all are blank"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
4	.: Missing	"All are blank"	Stands as original value	Stand as original value	
5	.: Missing	At least one is "marked"	Stands as original value	.: Missing if –6; stand as original value otherwise	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 4:

Responses to H13014-H13018 are all missing.

Definition of "blank or NA" in Coding Table for Note 4:

All of the following are true: H13014-H13018 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 4:

Any pattern of marks outside the definitions "all are blank" and "blank or NA".

Coding Table for Note 5: H13015, H13016-H13017

N5	H13015	H13016	H13017	H13015	H13016	H13017	*
	is:	is:	is:	is coded as:	is coded as:	is coded as:	
1	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	2: No or .: missing	1: Definitely yes 2: somewhat yes	Any value	1: Yes	Stands as original value	Stands as original value	В
4	2: No or .: missing	3: Somewhat no, 4: definitely no, or .: missing	1: Definitely yes 2: somewhat yes	1: Yes	Stands as original value	Stands as original value	В
5	2: No	3: Somewhat no, 4: definitely no, or .: missing	3: Somewhat no, 4: definitely no, or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	3: Somewhat no, 4: definitely no, or .: missing	3: Somewhat no, 4: definitely no, or .: missing	Stands as original value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 6: H13019, H13020-H13027, S13009

N6	H13019	H13020-	H13025-	H13027	H13019	H13020-	H13027	*
	is:	H13024 are:	H13026, S13009 are:	is:	is coded as:	H13026, S13009 are coded as:	is coded as:	
1	1: Yes	Any value	Any value	Any value	Stands as original value	Stand as original value	.: Missing if -6; stands as original value otherwise	F
2	2: No or .: missing	Any value	Any value	0-10	1: Yes	Stand as original value	Stands as original value	В
3	2: No or .: missing	At least one is "marked"	Any value	.: Missing	1: Yes	Stand as original value	Stands as original value	В
4	2: No	At least one is "marked"	Any value	-6: No personal doctor	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.C: Question should be skipped	F
5	2: No	"Blank or NA"	Any value	-6: No personal doctor or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	Any value	Any value	-6: No personal doctor	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	.C: Question should be skipped	B F
7	.: Missing	"Blank or NA"	Any value	.: Missing	Stands as original value	Stand as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "blank or NA" in Coding Table for Note 6:

All of the following are true: H13020 is either 0: None or missing and H13021-H13024 are either not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 6:

Any pattern of marks for H13020-H13024 outside the definition "blank or NA".

Coding Table for Note 7: H13020, H13021-H13026

	020, 1110021 111002	*				
N7	H13020	H13021-H13024	H13025-	H13020	H13021-H13026	*
	is:	are:	H13026	is coded as:	are coded as:	
			are:			
1	.N: Valid skip, or	.N: Valid skip, or	Any	Stands as	Stand as original value	
	.C: question	.C: question should	value	original value		
	should be skipped	be skipped				
2	0: None	Any value	Any	Stands as	.N: Valid skip if missing;	F
			value	original value	.C: question should be skipped if	
					marked	
3	1-6: Visits, or	"Blank or NA"	Any	0: None	.N: Valid skip if missing;	В
	.: missing		value		.C: question should be skipped if	F
					marked	
4	1-6: Visits, or	At least one is	Any	Stands as	.: Missing if –6; stand as	F
	.: missing	"marked" or	value	original value	original value otherwise	
	·	"all are blank"				

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 7:

Responses to H13021-H13024 are all missing.

Definition of "blank or NA" in Coding Table for Note 7:

Responses to H13021-H13024 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 7:

Any pattern of marks for H13021-H13024 outside the definitions "all are blank" and "blank or NA".

Coding Table for Note 8: H13025, H13026

	020, 1110020				
N8	H13025 is:	H13026 is:	H13025 is coded as:	H13026 is coded as:	*
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stands as original value	
	.C: question should be	.C: question should be			
	skipped	skipped			
2	1: Yes	Any value	Stands as original value	Stands as original value	
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	.: Missing	Stands as original value	.N: Valid skip	F
				_	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 8_01: S13009, S13010

N8_01	S13009 is:	S13010 is:	S13009 is coded as:	S13010 is coded as:	*
1	.N: Valid skip, or	Any value	Stands as original value	Stands as original value	
	.C: question should be				
	skipped				
2	1: Yes	Any value	Stands as original value	.N: Valid skip if missing;	F
				.C: question should be skipped	
				if marked	
3	2: No	Any value	Stands as original value	Stands as original value	
4	.: Missing	Any value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 9: H13028, H13029-H13031

N9	H13028	H13029-H13031	H13028	H13029	H13030-H13031	*
	is:	are:	is coded as:	is coded as:	are coded as:	
1	1: Yes	Any value	Stands as original	.: Missing if –6;	Stand as original	F
			value	stands as original	value	
				value otherwise		
2	2: No or .: missing	At least one is	1: Yes	∴ Missing if –6;	Stand as original	В
		"marked"		stands as original	value	
				value otherwise		
3	2: No	"All are blank" or	Stands as original	.N: Valid skip if	.N: Valid skip if	F
		"blank or NA"	value	missing;	missing;	
				.C: question should	.C: question	
				be skipped if	should be skipped	
				marked	if marked	
4	.: Missing	"Blank or NA"	2: No	.N: Valid skip if	.N: Valid skip if	В
				missing;	missing;	F
				.C: question should	.C: question	
				be skipped if	should be skipped	
				marked	if marked	
5	.: Missing	"All are blank"	Stands as original	Stands as original	Stand as original	
			value	value	value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 9: Responses to H13029-H13031 are all missing.

Definition of "blank or NA" in Coding Table for Note 9:

All of the following are true: H13029 and H13031 are a combination of not applicable (-6) or missing. H13030 is either missing or 0: None.

Definition of "marked" in Coding Table for Note 9:

Any pattern of marks outside the definitions "all are blank" and "blank or NA".

Coding Table for Note 10: H13030, H13031

N10	H13030 is:	H13031 is:	H13030 is coded as:	H13031 is coded as:	*
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stands as original value	
	.C: question should be	.C: question should be			
	skipped	skipped			
2	1-5: Specialists	0-10 or .: missing	Stands as original value	Stands as original value	
3	1-5: Specialists or	-6: Didn't see a	0: None	.C: Question should be skipped	В
	.: missing	specialist in the last 12			F
		months			
4	0: None	Any value	Stands as original value	.N: Valid skip if missing;	F
				.C: question should be skipped	
				if marked	
5	.: Missing	0-10 or .: missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 10_B1: S13B02, S13B03-S13B04

~=~-,.	OLUBUC DIUBU.				
N10_B1	S13B02	S13B03-S13B04	S13B02	S13B03-S13B04	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	Any value	Stands as original value	.: Missing if –6; stand as original value otherwise	F
2	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as original value otherwise	B F
3	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
4	.: Missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
5	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10_B1: Responses to S13B03-S13B04 are all missing.

Definition of "blank or NA" in Coding Table for Note 10_B1:

All of the following are true: S13B03-S13B04 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 10_B1:

Any pattern of marks outside the definitions "all are blank" and "blank or NA".

Coding Table for Note 11: H13032, H13033

	- ,				
N11	H13032 is:	H13033 is:	H13032 is coded as:	H13033 is coded as:	*
1	1: Yes	1-4: How often or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't need care, tests, or treatment	2: No	.C: Question should be skipped	B F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	−6: Didn't need care, tests, or treatment or .: missing	Stands as original value	.N: Valid skip if missing; .C: Question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 12: H13034, H13035

N12	H13034 is:	H13035 is:	H13034 is coded as:	H13035 is coded as:	*
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't look for	2: No	.C: Question should be skipped	В
		information			F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't look for	Stands as original value	.N: Valid skip if missing;	F
		information or .: missing	_	.C: question should be skipped	
				if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 13: H13036, H13037

11150.	50, 1115057				
N13	H13036 is:	H13037 is:	H13036 is coded as:	H13037 is coded as:	*
1	1: Yes	1-4: How often or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't need service or equipment	2: No	.C: Question should be skipped	B F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need service or equipment or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 14: H13038, H13039

	70, 1110007				
N14	H13038 is:	H13039 is:	H13038 is coded as:	H13039 is coded as:	*
1	1: Yes	1-4: How often or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't need prescription meds	2: No	.C: Question should be skipped	B F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need prescription meds or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 15: H13040, H13041-H13042

	10, 1113041-1113042				
N15	H13040	H13041-H13042	H13040	H13041-H13042	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	At least one is "marked" or "all are blank"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing;	В
				.C: question should be skipped	F
				if marked	
3	2: No or .: missing	At least one is	1: Yes	.: Missing if –6; stand as	В
		"marked"		original value otherwise	F
4	2: No	"All are blank" or	Stands as original value	.N: Valid skip if missing;	F
		"blank or NA"		.C: question should be skipped	
		·		if marked	
5	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 15:

Responses to H13041-H13042 are all missing.

Definition of "blank or NA" in Coding Table for Note 15:

All of the following are true: H13041-H13042 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 15:

Any pattern of marks outside the definitions "all are blank" and "blank or NA".

Coding Table for Note 16: H13043, H13044

N16	H13043 is:	H13044 is:	H13043 is coded as:	H13044 is coded as:	*
1	1: Yes	1-4: How often or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't receive forms to fill out	2: No	.C: Question should be skipped	B F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't receive forms to fill out or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 17: H13045, H13046-H13047

	,				
N17	H13045	H13046-H13047	H13045	H13046-H13047	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	At least one is "marked", "all are blank" or "blank or don't know"	Stands as original value	.: Missing if –6; stands as original value otherwise	F
2	1: Yes, -5: don't know or .: missing	"Blank or NA" or "NA or don't know"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	2: No, -5: don't know or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stands as original value otherwise	B F
4	2: No	None are "marked"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	-5: Don't know	"Blank or don't know" or "all are blank"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	"Blank or don't know" or "all are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 17:

Responses to H13046-H13047 are all missing.

Definition of "blank or NA" in Coding Table for Note 17:

Responses to H13046-H13047 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of "blank or don't know" in Coding Table for Note 17:

Responses to H13046-H13047 are either all don't know (-5) or a combination of missing and don't know (-5).

Definition of "NA or don't know" in Coding Table for Note 17:

Responses to H13046-H13047 are a combination of not applicable (-6) and don't know (-5).

Definition of "marked" in Coding Table for Note 17:

Any pattern of marks outside the definitions "all are blank," "blank or NA," "blank or don't know," or "NA or don't know".

Coding Table for Note 18: H13053, H13054-H13056, H13057A-H13057D

N18	H13053	H13054-	H13057A-	H13053	H13054- H13056, H13057A-	*
	is:	H13056	H13057D	is coded as:	H13057D	
		are:	are:		are coded as:	
1	3: Some days,	Any value	Any value	Stands as original value	Stand as original value	
	4: every day,					
	or .: missing					
2	2: Not at all	Any value	"All are	Stands as original value	.N: Valid skip if missing or	F
	or -5: don't		unmarked"		unmarked;	
	know				.C: question should be skipped	
					if marked	
3	2: Not at all	Any value	At least one is	.: Missing	Stand as original value	В
			"marked"			
4	-5: Don't	Any value	At least one is	Stands as original value	.N: Valid skip if missing or	F
	know		"marked"		unmarked;	
					.C: question should be skipped	
					if marked	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are unmarked" in Coding Table for Note 18: Responses to H13057A-H13057D are all missing or unmarked.

Definition of "marked" in Coding Table for Note 18: Any pattern of marks outside the definition "all are unmarked"

Coding Table for Note 19:

Note 19 (Part A)

H13058, H13059B, H13060-H13064

N19A	H13058	SEX	H13059BH13064	XSEXA
	is:	is:	are:	is coded as:
1	.: Missing	F	Any marked	2: Female
2	.: Missing	F	All missing	2: Female
3	.: Missing	M	Any marked	1: Male
4	.: Missing	M	All missing	1: Male
5	.: Missing	Z or .: missing	Any marked	2: Female
6	.: Missing	Z	All missing	.: Missing
7	.: Missing	.: Missing	All missing	.: Missing
8	1: Male	Any value	All missing	1: Male
9	1: Male	F	Any marked	2: Female
10	1: Male	M, Z, or	Any marked	1: Male
		.: missing		
11	2: Female	Any value	Any marked	2: Female
12	2: Female	M	All missing	1: Male
13	2: Female	F, Z, or .: missing	All missing	2: Female

SEX (PNSEXCD) is the gender from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

XSEXA is the recoded gender variable after taking into account the self-reported response (H13058), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 19 (Part B): H13059B, H13060-H13064

111000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11000.		
N19B	XSEXA	H13059BH13064	H13059BH13064	*
	is:	are:	are coded as:	
1	1: Male	"All are blank"	.N: Valid skip	F
2	1: Male	At least one is "marked"	.N: Valid skip if missing;	F
			.C: question should be skipped if	
			marked	
3	2: Female	"All are blank" or at least one is "marked"	Stand as original value	
4	.: Missing	"All are blank" or at least one is "marked"	Missing value	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 19b: All variables H13059B--H13064 are missing.

Definition of "marked" in Coding Table for Note 19b: Any pattern of marks outside the definition "all are blank".

Coding Table for Note 20 XSEXA, AGE, H13060, H13061

N20	XSEXA	AGE	H13060	H13061	H13060	H13061	*
	is:	is:	is:	is:	is coded as:	is coded as:	
1	1: Male	Any value	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	Stands as original value	Stands as original value	
2	2: Female	Any value	2: 40 or over	Any value	Stands as original value	Stands as original value	
3	2: Female	Any value	1: Under 40	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
4	2: Female	Any value	.: Missing	Marked	2: >= 40	Stands as original value	В
5	2: Female	< 40	.: Missing	.: Missing	1: < 40	.N: Valid skip	F B
6	2: Female	>=40	.: Missing	.: Missing	2: >= 40	Stands as original value	В
7	2: Female	.: Missing	.: Missing	.: Missing	Stands as original value	Stands as original value	
8	.: Missing	Any value	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

AGE (DAGEQY) is from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

Coding Table for Note 21: XSEXA, H13062-H13064

		3062-H13064	H12072	II12064	H12062	H12062	H13064	*
N2 1	XSEXA is:	H13062 is:	H13063 is:	H13064 is:	H13062 is coded as:	H13063 is coded as:	H13064 is coded as:	*
1	1: Male	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
2	2: Female	1: Pregnant now	1: First trimester	Any value	Stands as original value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
3	2: Female	1: Pregnant now	2: Second trimester	2: Third trimester	Stands as original value	Stands as original value	.: Missing	F
4	2: Female	1: Pregnant now	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or .: missing	Stands as original value	Stands as original value	Stands as original value	
5	2: Female	1: Pregnant now	3: Third trimester or .: missing	Any value	Stands as original value	Stands as original value	Stands as original value	
6	2: Female	2: Pregnant in last 12 months	Any value	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	Stands as original value	F
7	2: Female	3: Not pregnant in past 12 months	Any value	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
8	2: Female	.: Missing	1: First trimester	Any value	1: Pregnant now	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	B F
9	2: Female	.: Missing	2: Second trimester	2: Third trimester	1: Pregnant now	Stands as original value	.: Missing	B F
10	2: Female	.: Missing	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or .: missing	1: Pregnant now	Stands as original value	Stands as original value	В
11	2: Female	.: Missing	3: Third trimester	Any value	1: Pregnant now	Stands as original value	Stands as original value	В
12	2: Female	.: Missing	.: Missing	Any value	Stands as original value	Stands as original value	Stands as original value	F
13	.: Missing	.: Missing	Marked or .: missing	Any value	Stands as original value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F)

Coding Table for Note 22: H13067, H13068

1115007	, 1115000		
N22	H13067 is:	H13068 is:	H13067 is co
1	1: Yes	Any value	Stands as ori
2	2. No on a missing	1. Vas an 2. na	1. Vac

N22	H13067 is:	H13068 is:	H13067 is coded as:	H13068 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or .: missing	1: Yes or 2: no	1: Yes	Stands as original value	В
3	2: No	.: Missing	Stands as original value	.N: Valid skip	F
4	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 23:

H13069, H13070

N23	H13069 is:	H13070 is:	H13069 is coded as:	H13070 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or .: missing	1: Yes or 2: no	1: Yes	Stands as original value	В
3	2: No	.: Missing	Stands as original value	.N: Valid skip	F
4	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 24: H13073, H13073A-H13073E

N24	H13073A-H	H13073B	H13073C	H13073D	H13073E	H13073	H13073A-E	*
	is:	is:	is:	is:	is:	is coded as:	are coded as:	
1	Any value	1: Marked	Any value	Any value	Any value	2: Yes, Mexican, Mexican American, Chicano	Stand as original value	F
2	Any value	2: Unmarked	Any value	Any value	1: Marked	5: Yes, other Spanish, Hispanic, or Latino	Stand as original value	F
3	Any value	2: Unmarked	1: Marked	Any value	2: Unmarked	3: Yes, Puerto Rican	Stand as original value	F
4	Any value	2: Unmarked	2: Unmarked	1: Marked	2: Unmarked	4: Yes, Cuban	Stand as original value	F
5	1: Marked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	1: No, not Spanish, Hispanic, or Latino	Stand as original value	F
6	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	.: Missing	Stand as original value	F

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 25: H13074, H13075-H13079

N25	H13074 is:	H13075-H13079 are:	H13074 is coded as:	H13075-H13079 are coded as:	*
1	1: Yes	Any value	Stands as original value	Stand as original value	
2	2: No or -5: don't	"All are	Stands as original value	.N: Valid skip if missing;	F
	know	uncovered/unknown"		.C: question should be skipped	
				if marked	
3	2: No, -5: don't	At least one is	1: Yes	Stand as original value	В
	know, or .: missing	"covered"			
4	.: Missing	"All are	Stands as original value	Stand as original value	
		uncovered/unknown"			

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are uncovered/unknown" in Coding Table for Note 25: Responses to H13075-H13079 are all 2: no, -5: don't know, or missing.

Definition of "covered" in Coding Table for Note 25: Any pattern of marks outside the definition "all are uncovered/unknown".

APPENDIX B CODING SCHEME AND CODING TABLES – QUARTER II

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

QUARTER II

2013 HEALTH CARE SURVEY OF DOD BENEFICIARIES (HCSDB) CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

SAS	ASCII/EBCDIC	
Numeric	Numeric	Description
	-9	No response
О.	-7	Out of range error
.N	-6	Not applicable or valid skip
.D	-5	Scalable response of "don't know" or "not sure"
.I	-4	Incomplete grid error
.C	-1	Question should have been skipped

Missing values '.' and incomplete grids '.I' are encoded prior to implementation of the Coding Scheme Notes (see below).

Coding Table for Note 1: H13003, H13004

	7005, 1115004				
N1	H13003	H13004	H13003	H13004	*
	is:	is:	is coded as:	is coded as:	
1	1-16: Health plan	Marked or missing	Stands as original	Stands as original	
	or -5: Not sure	response	value	value	
2	-6: No usage in	Marked response	Stands as original	.C: Question should	F
	past 12 months		value	be skipped	
3	-6: No usage in	Missing response	Stands as original	.N: Valid skip	F
	past 12 months		value	_	
4	Missing response	Marked or missing	Stands as original	Stands as original	
		response	value	value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 1_J1: S13J01, S13J02A-S13J02I, S13J03-S13J06, S13J07A-S13J07O, S13J08, S13J09A-S13J09L, S13J10, S13J13A-S13J13N, S13J14

N1_J1	S13J01 is:	S13J02A- S13J02H are:	S13J02I, S13J03-S13J06, S13J07A-S13J07O, S13J08, S13J09A-S13J09L, S13J10, S13J13A-S13J13N, S13J14 are:	S13J01 is coded as:	S13J02A- S13J02H are coded as:	S13J02I, S13J03-S13J06, S13J07A-S13J07O, S13J08, S13J09A-S13J09L, S13J10, S13J13A-S13J13N, S13J14 are coded as:	*
1	1: Yes	Any value	Any value	Stands as original value	Stand as original value	Stand as original value	
2	2: No or .: missing	At least one value is 1: marked	Any value	1: Yes	Stand as original value	Stand as original value	В
3	2: No	All values are 2: unmarked or missing response	Any value	Stands as original value	.N: Valid skip	.N: Valid skip if missing or unmarked; .C: question should be skipped if marked	F
4	.: Missing	All values are 2: unmarked or missing response	At least one is "marked"	1: Yes	Stand as original value	Stand as original value	В
5	.: Missing	All values are 2: unmarked or missing response	"All are blank or don't know"	Stands as original value	.: Missing	.: Missing if 2: unmarked; stand as original value otherwise	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank or don't know" in Coding Table for Note 1_J1: Responses to S13J03-S13J06, S13J07A-S13J07O, S13J08, S13J09A-S13J09L, S13J10, S13J13A-S13J13N, and S13J14 are all missing or unmarked or -5:don't know. (Because the 1: marked value for S13J02I indicates a "don't know" response, it does not matter if S13J02I is marked, unmarked, or missing).

Definition of "marked" in Coding Table for Note 1_J1:

Any pattern of marks outside the definition "all are blank or don't know".

Coding Table for Note 1_J2: S13J03-S13J05

515005	513003				
N1_J2	S13J03	S13J04-S13J05	S13J03	S13J04-S13J05	*
	is:	are:	is coded as:	are coded as:	
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stand as original value	
	.C: question should	.C: question should			
	be skipped	be skipped			
2	1-2: Yes	Any value	Stands as original value	Stand as original value	
3	4: No	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
4	.: Missing	Any value	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 1_J3: S13J04, S13J05

515004,	51000				
N1_J3	S13J04	S13J05	S13J04	S13J05	*
	is:	are:	is coded as:	is coded as:	
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stands as original value	
	.C: question should	.C: question should be			
	be skipped	skipped			
2	1, 2: Yes, -5: don't	1-1000, don't know, or	Stands as original value	Stands as original value	
	know, or .: missing	.: missing			
3	1, 2: Yes, -5: don't	0	3: No	.C: Question should be	В
	know, or .: missing			skipped	F
4	3: No	Any value	Stands as original value	.N: Valid skip if missing;	F
			_	.C: question should be skipped	
				if marked	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 1_J4: S13J06, S13J07A- S13J07O

N1_J4	S13J06	S13J07A- S13J07O	S13J06	S13J07A- S13J07O	*
	is:	are:	is coded as:	are coded as:	
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stand as original value	
	.C: question should	.C: question should			
	be skipped	be skipped			
2	1: Yes or .: missing	At least one is	2: No	Stand as original value	В
		"marked"			
3	1: Yes	"All are blank"	Stands as original value	.N: Valid skip	F
4	2: No	Any value	Stands as original value	Stand as original value	
5	.: Missing	"All are blank"	Stands as original value	.: Missing	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 1_J4: Responses to S13J07A- S13J07O are all missing or unmarked.

Definition of "marked" in Coding Table for Note 1_J4: Any pattern of marks outside the definitions "all are blank".

Coding Table for Note 1_J5: S13J08, S13J09A- S13J09L

N1_J5	S13J08	S13J09A- S13J09L	S13J08	S13J09A- S13J09L	*
	is:	are:	is coded as:	are coded as:	
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stand as original value	
	.C: question should	.C: question should			
	be skipped	be skipped			
2	1: Yes or .: missing	At least one is	2: No	Stand as original value	В
		"marked"			
3	1: Yes	"All are blank"	Stands as original value	.N: Valid skip	F
4	2: No	Any value	Stands as original value	Stand as original value	
5	.: Missing	"All are blank"	Stands as original value	.: Missing	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 1_J5: Responses to S13J09A- S13J09L are all missing or unmarked.

Definition of "marked" in Coding Table for Note 1_J5: Any pattern of marks outside the definitions "all are blank".

Coding Table for Note 1_J6: S13J10, S13J13A- S13J13N, S13J14

515010,	913913W- 913913M, F	713017			
N1_J6	S13J10	S13J13A- S13J13N,	S13J10	S13J13A- S13J13N, S13J14	*
	is:	S13J14	is coded as:	are coded as:	
		are:			
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stand as original value	
	.C: question should	.C: question should			
	be skipped	be skipped			
2	1: Yes	Any value	Stands as original value	Stand as original value	
3	2: No or .: missing	At least one is	1: Yes	Stand as original value	В
		"marked"			
4	2: No	"All are blank"	Stands as original value	.N: Valid skip	F
5	.: Missing	"All are blank"	Stands as original value	.: Missing	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 1_J6:

Responses to S13J13A-S13J13N and S13J14 are all missing or unmarked.

Definition of "marked" in Coding Table for Note 1_J6:

Any pattern of marks outside the definitions "all are blank".

Coding Table for Note 1_AC1:

H13005, S13AC01, S13AC02A-S13AC02G, S13AC03, S13AC04, S13AC05A-S13AC05G

111.	5005, S15AC01, S15.	ACU2A-SI3ACU2G, SI3.	ACU3, 813ACU4, 813AU	CUSA-SISACUSG	
N1_	H13005	S13AC01,	H13005	S13AC01,	*
AC1	is:	S13AC02A-	is coded as:	S13AC02A-	
		S13AC02G,S13AC03,		S13AC02G,S13AC03,	
		S13AC04,		S13AC04,	
		S13AC05A-		S13AC05A-	
		S13AC05G		S13AC05G	
		are:		are coded as:	
1	1-4: Facility type	Any value	Stands as original	Stand as original value	
	or .: missing		value		
2	5: None of the	Any value	Stands as original	.N: Valid skip if	F
	facility types		value	missing;	
				.C: question should be	
				skipped if marked	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 1_AC2: S13AC01, S13AC02A- S13AC02G

	001,0101100111 01011	**-*			
N1_	S13AC01	S13AC02A-	S13AC01	S13AC02A- S13AC02G	*
AC2	is:	S13AC02G	is coded as:	are coded as:	
		are:			
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stand as original value	
	.C: question should	.C: question should			
	be skipped	be skipped			
2	1: Yes	Any value	Stands as original value	Stand as original value	
3	2: No or .: missing	At least one is	1: Yes	Stand as original value	В
		"marked"			
4	2: No	"All are blank"	Stands as original value	.N: Valid skip	F
5	.: Missing	"All are blank"	Stands as original value	.: Missing	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 1_AC2:

Responses to S13AC02A-S13AC02G are all missing or unmarked.

Definition of "marked" in Coding Table for Note 1_AC2:

Any pattern of marks outside the definitions "all are blank".

Coding Table for Note 1_AC3:

S13AC03, S13AC04, S13AC05A- S13AC05G

N1_	S13AC03	S13AC04,	S13AC03	S13AC04, S13AC05A-	*
AC3	is:	S13AC05A-	is coded as:	S13AC05G	
		S13AC05G		are coded as:	
		are:			
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stand as original value	
	.C: question should	.C: question should			
	be skipped	be skipped			
2	1: Yes	Any value	Stands as original value	Stand as original value	
3	2: No or .: missing	At least one is	1: Yes	Stand as original value	В
		"marked"			
4	2: No	"All are blank"	Stands as original value	.N: Valid skip	F
5	.: Missing	"All are blank"	Stands as original value	.: Missing	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 1_AC3:

Responses to S13AC04 and S13AC05A-S13AC05G are all missing or unmarked.

Definition of "marked" in Coding Table for Note 1_AC3:

Any pattern of marks outside the definitions "all are blank".

Coding Table for Note 2: H13006, H13007, H13008

N2	H13006	H13007-H13008	H13006	H13007-H13008	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	"All are blank"	Stands as original value	Stand as original value	
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing;	В
				.C: question should be	F
				skipped if marked	
3	1: Yes	"One marked, and one	Stands as original value	.: Missing if –6; stand as	F
		NA"		original value otherwise	
4	1: Yes	At least one is "marked"	Stands as original value	Stand as original value	
5	2: No	"One marked, and one	Stands as original value	.C: Question should be	F
		NA"		skipped if marked	
6	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as	В
	_			original value otherwise	F
7	2: No	"All are blank" or "blank	Stands as original value	.N: Valid skip if missing;	F
		or NA"		.C: question should be	
				skipped if marked	
8	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 2:

Responses to H13007-H13008 are all missing.

Definition of "blank or NA" in Coding Table for Note 2:

All of the following are true: H13007-H13008 are a combination of not applicable (-6) or missing.

Definition of "one marked and one NA" in Coding Table for Note 2:

H13007-H13008 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of "marked" in Coding Table for Note 2:

Any pattern of marks outside the definitions "all are blank", "one marked and one NA", and "blank or NA".

Coding Table for Note 3: H13009, H13010, H13011

N3	H13009	H13010-H13011	H13009	H13010-H13011	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	"All are blank"	Stands as original value	Stand as original value	
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	1: Yes	"One marked and one NA"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
4	1: Yes	At least one is "marked"	Stands as original value	Stand as original value	
5	2: No	"One marked and one NA"	Stands as original value	.C: Question should be skipped if marked	F
6	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as original value otherwise	B F
7	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
8	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 3:

Responses to H13010-H13011 are all missing.

Definition of "blank or NA" in Coding Table for Note 3:

All of the following are true: H13010-H13011 are a combination of not applicable (-6) or missing.

Definition of "one marked and one NA" in Coding Table for Note 3:

H13010-H13011 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of "marked" in Coding Table for Note 3:

Any pattern of marks outside the definitions "all are blank", "one marked and one NA", and "blank or NA".

Coding Table for Note 4: H13013, H13014-H13018

11100	10, 1115014 111501				
N4	H13013	H13014-H13018	H13013	H13014-H13018	*
	is:	are:	is coded as:	are coded as:	
1	1: None	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
2	2-7: Visits, or .: missing	"Blank or NA"	1: None	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	2-7: Visits	At least one is "marked" or "all are blank"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
4	.: Missing	"All are blank"	Stands as original value	Stand as original value	
5	.: Missing	At least one is "marked"	Stands as original value	.: Missing if –6; stand as original value otherwise	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 4:

Responses to H13014-H13018 are all missing.

Definition of "blank or NA" in Coding Table for Note 4:

All of the following are true: H13014-H13018 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 4:

Coding Table for Note 5: H13015, H13016-H13017

N5	H13015	H13016	H13017	H13015	H13016	H13017	*
	is:	is:	is:	is coded as:	is coded as:	is coded as:	
1	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	2: No or .: missing	1: Definitely yes 2: somewhat yes	Any value	1: Yes	Stands as original value	Stands as original value	В
4	2: No or .: missing	3: Somewhat no, 4: definitely no, or .: missing	1: Definitely yes 2: somewhat yes	1: Yes	Stands as original value	Stands as original value	В
5	2: No	3: Somewhat no, 4: definitely no, or .: missing	3: Somewhat no, 4: definitely no, or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	3: Somewhat no, 4: definitely no, or .: missing	3: Somewhat no, 4: definitely no, or .: missing	Stands as original value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 6: H13019, H13020-H13027, S13009

N6	H13019	H13020-	H13025-	H13027	H13019	H13020-	H13027	*
	is:	H13024 are:	H13026, S13009 are:	is:	is coded as:	H13026, S13009 are coded as:	is coded as:	
1	1: Yes	Any value	Any value	Any value	Stands as original value	Stand as original value	.: Missing if -6; stands as original value otherwise	F
2	2: No or .: missing	Any value	Any value	0-10	1: Yes	Stand as original value	Stands as original value	В
3	2: No or .: missing	At least one is "marked"	Any value	.: Missing	1: Yes	Stand as original value	Stands as original value	В
4	2: No	At least one is "marked"	Any value	-6: No personal doctor	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.C: Question should be skipped	F
5	2: No	"Blank or NA"	Any value	-6: No personal doctor or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	Any value	Any value	-6: No personal doctor	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	.C: Question should be skipped	B F
7	.: Missing	"Blank or NA"	Any value	.: Missing	Stands as original value	Stand as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "blank or NA" in Coding Table for Note 6:

All of the following are true: H13020 is either 0: None or missing and H13021-H13024 are either not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 6:

Any pattern of marks for H13020-H13024 outside the definition "blank or NA".

Coding Table for Note 7: H13020, H13021-H13026

N7	H13020	H13021-H13024	H13025-	H13020	H13021-H13026	*
	is:	are:	H13026	is coded as:	are coded as:	
			are:			
1	.N: Valid skip, or	.N: Valid skip, or	Any	Stands as	Stand as original value	
	.C: question	.C: question should	value	original value		
	should be skipped	be skipped				
2	0: None	Any value	Any	Stands as	.N: Valid skip if missing;	F
			value	original value	.C: question should be skipped if	
					marked	
3	1-6: Visits, or	"Blank or NA"	Any	0: None	.N: Valid skip if missing;	В
	.: missing		value		.C: question should be skipped if	F
					marked	
4	1-6: Visits, or	At least one is	Any	Stands as	.: Missing if –6; stand as	F
	.: missing	"marked" or	value	original value	original value otherwise	
		"all are blank"				

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 7:

Responses to H13021-H13024 are all missing.

Definition of "blank or NA" in Coding Table for Note 7:

Responses to H13021-H13024 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 7:

Any pattern of marks for H13021-H13024 outside the definitions "all are blank" and "blank or NA".

Coding Table for Note 8: H13025, H13026

H13025 is:	H13026 is:	H13025 is coded as:	H13026 is coded as:	*
.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stands as original value	
.C: question should be	.C: question should be			
skipped	skipped			
1: Yes	Any value	Stands as original value	Stands as original value	
2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
2: No	.: Missing	Stands as original value	.N: Valid skip	F
.: Missing	.: Missing	Stands as original value	Stands as original value	
	.N: Valid skip, or .C: question should be skipped 1: Yes 2: No or .: missing 2: No	.N: Valid skip, or .C: question should be skipped 1: Yes 2: No or .: missing 2: No 2: No 3. N: Valid skip, or .C: question should be skipped Any value 1-4: How often .: Missing	.N: Valid skip, or .C: question should be skipped 1: Yes Any value Stands as original value Stands as original value Stands as original value 1: Yes 2: No or .: missing 1-4: How often 1: Yes 2: No Stands as original value Stands as original value	.N: Valid skip, or .C: question should be skipped 1: Yes Any value Stands as original value

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 8_01: S13009, S13010

N8_01	S13009 is:	S13010 is:	S13009 is coded as:	S13010 is coded as:	*
1	.N: Valid skip, or	Any value	Stands as original value	Stands as original value	
	.C: question should be				
	skipped				
2	1: Yes	Any value	Stands as original value	.N: Valid skip if missing;	F
				.C: question should be skipped	
				if marked	
3	2: No	Any value	Stands as original value	Stands as original value	
4	.: Missing	Any value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 9: H13028, H13029-H13031

11130	20, 1113029-1113031					
N9	H13028	H13029-H13031	H13028	H13029	H13030-H13031	*
	is:	are:	is coded as:	is coded as:	are coded as:	
1	1: Yes	Any value	Stands as original	.: Missing if –6;	Stand as original	F
			value	stands as original	value	
				value otherwise		
2	2: No or .: missing	At least one is	1: Yes	∴ Missing if –6;	Stand as original	В
		"marked"		stands as original	value	
				value otherwise		
3	2: No	"All are blank" or	Stands as original	.N: Valid skip if	.N: Valid skip if	F
		"blank or NA"	value	missing;	missing;	
				.C: question should	.C: question	
				be skipped if	should be skipped	
				marked	if marked	
4	.: Missing	"Blank or NA"	2: No	.N: Valid skip if	.N: Valid skip if	В
				missing;	missing;	F
				.C: question should	.C: question	
				be skipped if	should be skipped	
				marked	if marked	
5	.: Missing	"All are blank"	Stands as original	Stands as original	Stand as original	
			value	value	value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 9: Responses to H13029-H13031 are all missing.

Definition of "blank or NA" in Coding Table for Note 9:

All of the following are true: H13029 and H13031 are a combination of not applicable (-6) or missing. H13030 is either missing or 0: None.

Definition of "marked" in Coding Table for Note 9:

Coding Table for Note 10: H13030, H13031

N10	H13030 is:	H13031 is:	H13030 is coded as:	H13031 is coded as:	*
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stands as original value	
	.C: question should be	.C: question should be			
	skipped	skipped			
2	1-5: Specialists	0-10 or .: missing	Stands as original value	Stands as original value	
3	1-5: Specialists or	-6: Didn't see a	0: None	.C: Question should be skipped	В
	.: missing	specialist in the last 12			F
		months			
4	0: None	Any value	Stands as original value	.N: Valid skip if missing;	F
				.C: question should be skipped	
				if marked	
5	.: Missing	0-10 or .: missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 10_B1: S13B02, S13B03-S13B04

~=~-,.	OLUBU DIUDU.				
N10_B1	S13B02	S13B03-S13B04	S13B02	S13B03-S13B04	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	Any value	Stands as original value	.: Missing if –6; stand as original value otherwise	F
2	2: No or .: missing	At least one is "marked"	1: Yes	: Missing if –6; stand as original value otherwise	B F
3	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
4	.: Missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
5	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10_B1: Responses to S13B03-S13B04 are all missing.

Definition of "blank or NA" in Coding Table for Note 10_B1:

All of the following are true: S13B03-S13B04 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 10_B1:

Coding Table for Note 11: H13032, H13033

	- ,				
N11	H13032 is:	H13033 is:	H13032 is coded as:	H13033 is coded as:	*
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't need care,	2: No	.C: Question should be skipped	В
		tests, or treatment			F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	−6: Didn't need care,	Stands as original value	.N: Valid skip if missing;	F
		tests, or treatment or		.C: Question should be skipped	
		.: missing		if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 12: H13034, H13035

N12	H13034 is:	H13035 is:	H13034 is coded as:	H13035 is coded as:	*
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't look for	2: No	.C: Question should be skipped	В
		information			F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't look for	Stands as original value	.N: Valid skip if missing;	F
		information or .: missing		.C: question should be skipped	
				if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 13: H13036, H13037

11150.	50, 1115057				
N13	H13036 is:	H13037 is:	H13036 is coded as:	H13037 is coded as:	*
1	1: Yes	1-4: How often or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't need service or equipment	2: No	.C: Question should be skipped	B F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need service or equipment or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 14: H13038, H13039

N14	H13038 is:	H13039 is:	H13038 is coded as:	H13039 is coded as:	*
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't need	2: No	.C: Question should be	В
		prescription meds		skipped	F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need	Stands as original value	.N: Valid skip if missing;	F
		prescription meds or		.C: question should be skipped	
		.: missing		if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 15: H13040, H13041-H13042

	10, 1113041-1113042				
N15	H13040	H13041-H13042	H13040	H13041-H13042	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	At least one is "marked" or "all are blank"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing;	В
				.C: question should be skipped	F
				if marked	
3	2: No or .: missing	At least one is	1: Yes	.: Missing if –6; stand as	В
		"marked"		original value otherwise	F
4	2: No	"All are blank" or	Stands as original value	.N: Valid skip if missing;	F
		"blank or NA"		.C: question should be skipped	
				if marked	
5	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 15:

Responses to H13041-H13042 are all missing.

Definition of "blank or NA" in Coding Table for Note 15:

All of the following are true: H13041-H13042 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 15:

Coding Table for Note 16: H13043, H13044

N16	H13043 is:	H13044 is:	H13043 is coded as:	H13044 is coded as:	*
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't receive	2: No	.C: Question should be	В
		forms to fill out		skipped	F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't receive	Stands as original value	.N: Valid skip if missing;	F
		forms to fill out or		.C: question should be skipped	
		.: missing		if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 17: H13045, H13046-H13047

	,				
N17	H13045	H13046-H13047	H13045	H13046-H13047	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	At least one is "marked", "all are blank" or "blank or don't know"	Stands as original value	.: Missing if –6; stands as original value otherwise	F
2	1: Yes, -5: don't know or .: missing	"Blank or NA" or "NA or don't know"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	2: No, -5: don't know or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stands as original value otherwise	B F
4	2: No	None are "marked"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	-5: Don't know	"Blank or don't know" or "all are blank"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	"Blank or don't know" or "all are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 17:

Responses to H13046-H13047 are all missing.

Definition of "blank or NA" in Coding Table for Note 17:

Responses to H13046-H13047 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of "blank or don't know" in Coding Table for Note 17:

Responses to H13046-H13047 are either all don't know (-5) or a combination of missing and don't know (-5).

Definition of "NA or don't know" in Coding Table for Note 17:

Responses to H13046-H13047 are a combination of not applicable (-6) and don't know (-5).

Definition of "marked" in Coding Table for Note 17:

Any pattern of marks outside the definitions "all are blank," "blank or NA," "blank or don't know," or "NA or don't know".

Coding Table for Note 18:

H13053, H13054-H13056, H13057A-H13057D

N18	H13053	H13054-	H13057A-	H13053	H13054- H13056, H13057A-	*
1110	is:	H13056	H13057D	is coded as:	H13057D	
		are:	are:		are coded as:	
1	3: Some days, 4: every day, or .: missing	Any value	Any value	Stands as original value	Stand as original value	
2	2: Not at all or -5: don't know	Any value	"All are unmarked"	Stands as original value	.N: Valid skip if missing or unmarked;.C: question should be skipped if marked	F
3	2: Not at all	Any value	At least one is "marked"	.: Missing	Stand as original value	В
4	-5: Don't know	Any value	At least one is "marked"	Stands as original value	.N: Valid skip if missing or unmarked;.C: question should be skipped if marked	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are unmarked" in Coding Table for Note 18: Responses to H13057A-H13057D are all missing or unmarked.

Definition of "marked" in Coding Table for Note 18: Any pattern of marks outside the definition "all are unmarked"

Coding Table for Note 19:

Note 19 (Part A)

H13058, H13059B, H13060-H13064

N19A	H13058	SEX	H13059BH13064	XSEXA
	is:	is:	are:	is coded as:
1	.: Missing	F	Any marked	2: Female
2	.: Missing	F	All missing	2: Female
3	.: Missing	M	Any marked	1: Male
4	.: Missing	M	All missing	1: Male
5	.: Missing	Z or .: missing	Any marked	2: Female
6	.: Missing	Z	All missing	.: Missing
7	.: Missing	.: Missing	All missing	.: Missing
8	1: Male	Any value	All missing	1: Male
9	1: Male	F	Any marked	2: Female
10	1: Male	M, Z, or	Any marked	1: Male
		.: missing		
11	2: Female	Any value	Any marked	2: Female
12	2: Female	M	All missing	1: Male
13	2: Female	F, Z, or	All missing	2: Female
		.: missing		

SEX (PNSEXCD) is the gender from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

XSEXA is the recoded gender variable after taking into account the self-reported response (H13058), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 19 (Part B): H13059B, H13060-H13064

,			
XSEXA	H13059BH13064	H13059BH13064	*
is:	are:	are coded as:	
1: Male	"All are blank"	.N: Valid skip	F
1: Male	At least one is "marked"	.N: Valid skip if missing;	F
		.C: question should be skipped if	
		marked	
2: Female	"All are blank" or at least one is "marked"	Stand as original value	
.: Missing	"All are blank" or at least one is "marked"	Missing value	F
	is: 1: Male 1: Male 2: Female	is: are: 1: Male "All are blank" 1: Male At least one is "marked" 2: Female "All are blank" or at least one is "marked"	is: are: are coded as: 1: Male "All are blank" .N: Valid skip 1: Male At least one is "marked" .N: Valid skip if missing; .C: question should be skipped if marked 2: Female "All are blank" or at least one is "marked" Stand as original value

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 19b: All variables H13059B--H13064 are missing.

Definition of "marked" in Coding Table for Note 19b: Any pattern of marks outside the definition "all are blank".

Coding Table for Note 20 XSEXA, AGE, H13060, H13061

N20	XSEXA	AGE	H13060	H13061	H13060	H13061	*
	is:	is:	is:	is:	is coded as:	is coded as:	
1	1: Male	Any value	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	Stands as original value	Stands as original value	
2	2: Female	Any value	2: 40 or over	Any value	Stands as original value	Stands as original value	
3	2: Female	Any value	1: Under 40	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
4	2: Female	Any value	.: Missing	Marked	2: >= 40	Stands as original value	В
5	2: Female	< 40	.: Missing	.: Missing	1: < 40	.N: Valid skip	F B
6	2: Female	>=40	.: Missing	.: Missing	2: >= 40	Stands as original value	В
7	2: Female	.: Missing	.: Missing	.: Missing	Stands as original value	Stands as original value	
8	.: Missing	Any value	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

AGE (DAGEQY) is from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

Coding Table for Note 21: XSEXA, H13062-H13064

		3062-H13064	H12072	II12064	H12062	H12062	H13064	*
N2 1	XSEXA is:	H13062 is:	H13063 is:	H13064 is:	H13062 is coded as:	H13063 is coded as:	H13064 is coded as:	*
1	1: Male	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
2	2: Female	1: Pregnant now	1: First trimester	Any value	Stands as original value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
3	2: Female	1: Pregnant now	2: Second trimester	2: Third trimester	Stands as original value	Stands as original value	.: Missing	F
4	2: Female	1: Pregnant now	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or .: missing	Stands as original value	Stands as original value	Stands as original value	
5	2: Female	1: Pregnant now	3: Third trimester or .: missing	Any value	Stands as original value	Stands as original value	Stands as original value	
6	2: Female	2: Pregnant in last 12 months	Any value	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	Stands as original value	F
7	2: Female	3: Not pregnant in past 12 months	Any value	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
8	2: Female	.: Missing	1: First trimester	Any value	1: Pregnant now	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	B F
9	2: Female	.: Missing	2: Second trimester	2: Third trimester	1: Pregnant now	Stands as original value	.: Missing	B F
10	2: Female	.: Missing	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or .: missing	1: Pregnant now	Stands as original value	Stands as original value	В
11	2: Female	.: Missing	3: Third trimester	Any value	1: Pregnant now	Stands as original value	Stands as original value	В
12	2: Female	.: Missing	.: Missing	Any value	Stands as original value	Stands as original value	Stands as original value	F
13	.: Missing	.: Missing	Marked or .: missing	Any value	Stands as original value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F)

Coding Table for Note 22: H13067, H13068

N22	H13067 is:	H13068 is:	H13067 is coded as:	H13068 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or .: missing	1: Yes or 2: no	1: Yes	Stands as original value	В
3	2: No	.: Missing	Stands as original value	.N: Valid skip	F
4	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 23:

H13069, H13070

N23	H13069 is:	H13070 is:	H13069 is coded as:	H13070 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or .: missing	1: Yes or 2: no	1: Yes	Stands as original value	В
3	2: No	.: Missing	Stands as original value	.N: Valid skip	F
4	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 24:

H13073, H13073A-H13073E

N24	H13073A	H13073B	H13073C	H13073D	H13073E	H13073	H13073A-E	*
	is:	is:	is:	is:	is:	is coded as:	are coded as:	
1	Any value	1: Marked	Any value	Any value	Any value	2: Yes, Mexican, Mexican American, Chicano	Stand as original value	F
2	Any value	2: Unmarked	Any value	Any value	1: Marked	5: Yes, other Spanish, Hispanic, or Latino	Stand as original value	F
3	Any value	2: Unmarked	1: Marked	Any value	2: Unmarked	3: Yes, Puerto Rican	Stand as original value	F
4	Any value	2:	2:	1: Marked	2:	4: Yes, Cuban	Stand as	F
		Unmarked	Unmarked		Unmarked	,	original value	
5	1: Marked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	1: No, not Spanish, Hispanic, or Latino	Stand as original value	F
6	2:	2:	2:	2:	2:	.: Missing	Stand as	F
	Unmarked	Unmarked	Unmarked	Unmarked	Unmarked		original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 25: H13074, H13075-H13079

N25	H13074 is:	H13075-H13079 are:	H13074 is coded as:	H13075-H13079 are coded as:	*
1	1: Yes	Any value	Stands as original value	Stand as original value	
2	2: No or -5: don't	"All are	Stands as original value	.N: Valid skip if missing;	F
	know	uncovered/unknown"		.C: question should be skipped	
				if marked	
3	2: No, -5: don't	At least one is	1: Yes	Stand as original value	В
	know, or .: missing	"covered"			
4	.: Missing	"All are	Stands as original value	Stand as original value	
		uncovered/unknown"			

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are uncovered/unknown" in Coding Table for Note 25: Responses to H13075-H13079 are all 2: no, -5: don't know, or missing.

Definition of "covered" in Coding Table for Note 25: Any pattern of marks outside the definition "all are uncovered/unknown".

APPENDIX B CODING SCHEME AND CODING TABLES – QUARTER III

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

QUARTER III

2013 HEALTH CARE SURVEY OF DOD BENEFICIARIES (HCSDB) CODING SCHEME AND CODING TABLES

BASIC SAS AND ASCII/EBCDIC MISSING DATA AND NOT APPLICABLE CODES

SAS	ASCII/EBCDIC	
Numeric	Numeric	Description
	-9	No response
O.	-7	Out of range error
.N	-6	Not applicable or valid skip
.D	-5	Scalable response of "don't know" or "not sure"
.I	-4	Incomplete grid error
.C	-1	Question should have been skipped

Missing values '.' and incomplete grids '.I' are encoded prior to implementation of the Coding Scheme Notes (see below).

Coding Table for Note 1: H13003, H13004

	2002, 1112001				
N1	H13003	H13004	H13003	H13004	*
	is:	is:	is coded as:	is coded as:	
1	1-16: Health plan	Marked or missing	Stands as original	Stands as original	
	or -5: Not sure	response	value	value	
2	-6: No usage in	Marked response	Stands as original	.C: Question should	F
	past 12 months	_	value	be skipped	
3	-6: No usage in	Missing response	Stands as original	.N: Valid skip	F
	past 12 months		value		
4	Missing response	Marked or missing	Stands as original	Stands as original	
		response	value	value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 2: H13006, H13007, H13008

N2	H13006	H13007-H13008	H13006	H13007-H13008	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	"All are blank"	Stands as original value	Stand as original value	
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing;	В
				.C: question should be	F
				skipped if marked	
3	1: Yes	"One marked, and one	Stands as original value	.: Missing if –6; stand as	F
		NA"		original value otherwise	
4	1: Yes	At least one is "marked"	Stands as original value	Stand as original value	
5	2: No	"One marked, and one	Stands as original value	.C: Question should be	F
		NA"		skipped if marked	
6	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as	В
	_			original value otherwise	F
7	2: No	"All are blank" or "blank	Stands as original value	.N: Valid skip if missing;	F
		or NA"		.C: question should be	
				skipped if marked	
8	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 2:

Responses to H13007-H13008 are all missing.

Definition of "blank or NA" in Coding Table for Note 2:

All of the following are true: H13007-H13008 are a combination of not applicable (-6) or missing.

Definition of "one marked and one NA" in Coding Table for Note 2:

H13007-H13008 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of "marked" in Coding Table for Note 2:

Any pattern of marks outside the definitions "all are blank", "one marked and one NA", and "blank or NA".

Coding Table for Note 3: H13009, H13010, H13011

N3	H13009	H13010-H13011	H13009	H13010-H13011	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	"All are blank"	Stands as original value	Stand as original value	
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	1: Yes	"One marked and one NA"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
4	1: Yes	At least one is "marked"	Stands as original value	Stand as original value	
5	2: No	"One marked and one NA"	Stands as original value	.C: Question should be skipped if marked	F
6	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as original value otherwise	B F
7	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
8	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 3:

Responses to H13010-H13011 are all missing.

Definition of "blank or NA" in Coding Table for Note 3:

All of the following are true: H13010-H13011 are a combination of not applicable (-6) or missing.

Definition of "one marked and one NA" in Coding Table for Note 3:

H13010-H13011 have one response marked not applicable (-6) and one marked response (other than not applicable).

Definition of "marked" in Coding Table for Note 3:

Any pattern of marks outside the definitions "all are blank", "one marked and one NA", and "blank or NA".

Coding Table for Note 4: H13013, H13014-H13018

N4	H13013	H13014-H13018	H13013	H13014-H13018	*
	is:	are:	is coded as:	are coded as:	
1	1: None	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
2	2-7: Visits, or .: missing	"Blank or NA"	1: None	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	2-7: Visits	At least one is "marked" or "all are blank"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
4	.: Missing	"All are blank"	Stands as original value	Stand as original value	
5	.: Missing	At least one is "marked"	Stands as original value	.: Missing if –6; stand as original value otherwise	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 4:

Responses to H13014-H13018 are all missing.

Definition of "blank or NA" in Coding Table for Note 4:

All of the following are true: H13014-H13018 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 4:

Coding Table for Note 5: H13015, H13016-H13017

N5	H13015	H13016	H13017	H13015	H13016	H13017	*
	is:	is:	is:	is coded as:	is coded as:	is coded as:	
1	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
3	2: No or .: missing	1: Definitely yes 2: somewhat yes	Any value	1: Yes	Stands as original value	Stands as original value	В
4	2: No or .: missing	3: Somewhat no, 4: definitely no, or .: missing	1: Definitely yes 2: somewhat yes	1: Yes	Stands as original value	Stands as original value	В
5	2: No	3: Somewhat no, 4: definitely no, or .: missing	3: Somewhat no, 4: definitely no, or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	3: Somewhat no, 4: definitely no, or .: missing	3: Somewhat no, 4: definitely no, or .: missing	Stands as original value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 5A1: S13C09, S13C10

N5A1	S13C09 is:	S13C10 is:	S13C09 is coded as:	S13C10 is coded as:	*
1	1: Yes	1-3: Marked or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't need to get special medical equipment	2: No	.C: Question should be skipped if marked	B F
3	2: No or .: missing	1-3: Marked	1: Yes	Stands as original value	В
4	2: No -6: Didn't need to get special medical equipment or .: missing		Stands as original value	alue .N: Valid skip if missing; .C: question should be skipped if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 5A2: S13C11, S13C12

N5A2	S13C11 is:	S13C12 is:	S13C11 is coded as:	S13C12 is coded as:	*
1	1: Yes	1-3: Marked or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't need to get special therapy	2: No	.C: Question should be skipped if marked	B F
3	2: No or .: missing	1-3: Marked	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need to get special therapy or .: missing	Stands as original value	.N: Valid skip if missing;.C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 5A3: S13C13, S13C14

515015	, 515014				
N5A3	S13C13 is:	S13C14 is:	S13C13 is coded as:	S13C14 is coded as:	*
1	1: Yes	1-3: Marked or .: missing	Stands as original value	Stands as original value	
2	1: Yes or	-6: Didn't need to get	2: No	.C: Question should be skipped	В
	.: missing	home health care		if marked	F
3	2: No or .: missing	1-3: Marked	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need to get home health care or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 6: H13019, H13020-H13027, S13009

N6	H13019	H13020-	H13025-	H13027	H13019	H13020-	H13027	*
	is:	H13024 are:	H13026, S13009 are:	is:	is coded as:	H13026, S13009 are coded as:	is coded as:	
1	1: Yes	Any value	Any value	Any value	Stands as original value	Stand as original value	.: Missing if -6; stands as original value otherwise	F
2	2: No or .: missing	Any value	Any value	0-10	1: Yes	Stand as original value	Stands as original value	В
3	2: No or .: missing	At least one is "marked"	Any value	.: Missing	1: Yes	Stand as original value	Stands as original value	В
4	2: No	At least one is "marked"	Any value	-6: No personal doctor	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.C: Question should be skipped	F
5	2: No	"Blank or NA"	Any value	-6: No personal doctor or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	Any value	Any value	-6: No personal doctor	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	.C: Question should be skipped	B F
7	.: Missing	"Blank or NA"	Any value	.: Missing	Stands as original value	Stand as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "blank or NA" in Coding Table for Note 6:

All of the following are true: H13020 is either 0: None or missing and H13021-H13024 are either not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 6:

Any pattern of marks for H13020-H13024 outside the definition "blank or NA".

Coding Table for Note 7: H13020, H13021-H13026

	020, 1110021 111002	*				
N7	H13020	H13021-H13024	H13025-	H13020	H13021-H13026	*
	is:	are:	H13026	is coded as:	are coded as:	
			are:			
1	.N: Valid skip, or	.N: Valid skip, or	Any	Stands as	Stand as original value	
	.C: question	.C: question should	value	original value		
	should be skipped	be skipped				
2	0: None	Any value	Any	Stands as	.N: Valid skip if missing;	F
			value	original value	.C: question should be skipped if	
					marked	
3	1-6: Visits, or	"Blank or NA"	Any	0: None	.N: Valid skip if missing;	В
	.: missing		value		.C: question should be skipped if	F
					marked	
4	1-6: Visits, or	At least one is	Any	Stands as	.: Missing if –6; stand as	F
	.: missing	"marked" or	value	original value	original value otherwise	
		"all are blank"				

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 7:

Responses to H13021-H13024 are all missing.

Definition of "blank or NA" in Coding Table for Note 7:

Responses to H13021-H13024 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 7:

Any pattern of marks for H13021-H13024 outside the definitions "all are blank" and "blank or NA".

Coding Table for Note 8: H13025, H13026

	020, 1110020				
N8	H13025 is:	H13026 is:	H13025 is coded as:	H13026 is coded as:	*
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stands as original value	
	.C: question should be	.C: question should be			
	skipped	skipped			
2	1: Yes	Any value	Stands as original value	Stands as original value	
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	.: Missing	Stands as original value	.N: Valid skip	F
				_	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 8_01: S13009, S13010

N8_01	S13009 is:	S13010 is:	S13009 is coded as:	S13010 is coded as:	*
1	.N: Valid skip, or .C: question should be	Any value	Stands as original value	Stands as original value	
	skipped				
2	1: Yes	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
3	2: No	Any value	Stands as original value	Stands as original value	
4	.: Missing	Any value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 9: H13028, H13029-H13031

N9	H13028	H13029-H13031	H13028	H13029	H13030-H13031	*
	is:	are:	is coded as:	is coded as:	are coded as:	
1	1: Yes	Any value	Stands as original	.: Missing if –6;	Stand as original	F
			value	stands as original	value	
				value otherwise		
2	2: No or .: missing	At least one is	1: Yes	∴ Missing if –6;	Stand as original	В
		"marked"		stands as original	value	
				value otherwise		
3	2: No	"All are blank" or	Stands as original	.N: Valid skip if	.N: Valid skip if	F
		"blank or NA"	value	missing;	missing;	
				.C: question should	.C: question	
				be skipped if	should be skipped	
				marked	if marked	
4	.: Missing	"Blank or NA"	2: No	.N: Valid skip if	.N: Valid skip if	В
				missing;	missing;	F
				.C: question should	.C: question	
				be skipped if	should be skipped	
				marked	if marked	
5	.: Missing	"All are blank"	Stands as original	Stands as original	Stand as original	
			value	value	value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 9: Responses to H13029-H13031 are all missing.

Definition of "blank or NA" in Coding Table for Note 9:

All of the following are true: H13029 and H13031 are a combination of not applicable (-6) or missing. H13030 is either missing or 0: None.

Definition of "marked" in Coding Table for Note 9:

Coding Table for Note 10: H13030, H13031

N10	H13030 is:	H13031 is:	H13030 is coded as:	H13031 is coded as:	*
1	.N: Valid skip, or	.N: Valid skip, or	Stands as original value	Stands as original value	
	.C: question should be	.C: question should be			
	skipped	skipped			
2	1-5: Specialists	0-10 or .: missing	Stands as original value	Stands as original value	
3	1-5: Specialists or	-6: Didn't see a	0: None	.C: Question should be skipped	В
	.: missing	specialist in the last 12			F
		months			
4	0: None	Any value	Stands as original value	.N: Valid skip if missing;	F
				.C: question should be skipped	
				if marked	
5	.: Missing	0-10 or .: missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 10_B1: S13B02, S13B03-S13B04

~=~-,.	OLUBUC DIUBU.				
N10_B1	S13B02	S13B03-S13B04	S13B02	S13B03-S13B04	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	Any value	Stands as original value	.: Missing if –6; stand as original value otherwise	F
2	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as original value otherwise	B F
3	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
4	.: Missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
5	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 10_B1: Responses to S13B03-S13B04 are all missing.

Definition of "blank or NA" in Coding Table for Note 10_B1:

All of the following are true: S13B03-S13B04 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 10_B1:

Coding Table for Note 11: H13032, H13033

N11	H13032 is:	H13033 is:	H13032 is coded as:	H13033 is coded as:	*
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't need care,	2: No	.C: Question should be skipped	В
		tests, or treatment			F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	−6: Didn't need care,	Stands as original value	.N: Valid skip if missing;	F
		tests, or treatment or		.C: Question should be skipped	
		.: missing		if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 12: H13034, H13035

11130	94, 1113033				
N12	H13034 is:	H13035 is:	H13034 is coded as:	H13035 is coded as:	*
1	1: Yes	1-4: How often or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't look for information	2: No	.C: Question should be skipped	B F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't look for information or .: missing	Stands as original value	.N: Valid skip if missing;.C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 13: H13036, H13037

11150.	30, 1113037				
N13	H13036 is:	H13037 is:	H13036 is coded as:	H13037 is coded as:	*
1	1: Yes	1-4: How often or .: missing	Stands as original value	Stands as original value	
2	1: Yes or .: missing	-6: Didn't need service or equipment	2: No	.C: Question should be skipped	B F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need service or equipment or .: missing	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 14: H13038, H13039

N14	H13038 is:	H13039 is:	H13038 is coded as:	H13039 is coded as:	*
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't need	2: No	.C: Question should be	В
		prescription meds		skipped	F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't need	Stands as original value	.N: Valid skip if missing;	F
		prescription meds or		.C: question should be skipped	
		.: missing		if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 15: H13040, H13041-H13042

H1304	iu, H13041-H13042				
N15	H13040	H13041-H13042	H13040	H13041-H13042	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	At least one is "marked" or "all are blank"	Stands as original value	.: Missing if –6; stand as original value otherwise	F
2	1: Yes or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing;.C: question should be skipped if marked	B F
3	2: No or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stand as original value otherwise	B F
4	2: No	"All are blank" or "blank or NA"	Stands as original value	.N: Valid skip if missing;.C: question should be skipped if marked	F
5	.: Missing	"All are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 15:

Responses to H13041-H13042 are all missing.

Definition of "blank or NA" in Coding Table for Note 15:

All of the following are true: H13041-H13042 are a combination of not applicable (-6) or missing.

Definition of "marked" in Coding Table for Note 15:

Coding Table for Note 16: H13043, H13044

N16	H13043 is: H13044 is:		H13043 is coded as:	H13044 is coded as:	
1	1: Yes	1-4: How often or	Stands as original value	Stands as original value	
		.: missing			
2	1: Yes or .: missing	-6: Didn't receive	2: No	.C: Question should be	В
		forms to fill out		skipped	F
3	2: No or .: missing	1-4: How often	1: Yes	Stands as original value	В
4	2: No	-6: Didn't receive	Stands as original value	.N: Valid skip if missing;	F
		forms to fill out or		.C: question should be skipped	
		.: missing		if marked	
5	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 17: H13045, H13046-H13047

	,				
N17	H13045	H13046-H13047	H13045	H13046-H13047	*
	is:	are:	is coded as:	are coded as:	
1	1: Yes	At least one is "marked", "all are blank" or "blank or don't know"	Stands as original value	.: Missing if –6; stands as original value otherwise	F
2	1: Yes, -5: don't know or .: missing	"Blank or NA" or "NA or don't know"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	2: No, -5: don't know or .: missing	At least one is "marked"	1: Yes	.: Missing if –6; stands as original value otherwise	B F
4	2: No	None are "marked"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	-5: Don't know	"Blank or don't know" or "all are blank"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing	"Blank or don't know" or "all are blank"	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 17:

Responses to H13046-H13047 are all missing.

Definition of "blank or NA" in Coding Table for Note 17:

Responses to H13046-H13047 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of "blank or don't know" in Coding Table for Note 17:

Responses to H13046-H13047 are either all don't know (-5) or a combination of missing and don't know (-5).

Definition of "NA or don't know" in Coding Table for Note 17:

Responses to H13046-H13047 are a combination of not applicable (-6) and don't know (-5).

Definition of "marked" in Coding Table for Note 17:

Any pattern of marks outside the definitions "all are blank," "blank or NA," "blank or don't know," or "NA or don't know".

Coding Table for Note 17_Q0: S13Q08, S13Q01-S13Q05

D15 Q00;	515Q01-515Q05				
N17_Q0	S13Q08 is:	S13Q01-S13Q05 are:	S13Q08 is coded as:	S13Q01-S13Q05	*
				are coded as:	
1	1: Yes	Any value	Stands as original	.N: Valid skip if missing;	F
			value	.C: question should be	
				skipped if marked	
2	2: No	Any value	Stands as original	Stands as original value	
		-	value	_	
3	.: Missing	At least one is "marked"	2: No	Stands as original value	В
4	.: Missing	"All are blank"	Stands as original	Stands as original value	
			value		

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 17_Q0: Responses to S13Q01-S13Q05 are all missing.

Definition of "marked" in Coding Table for Note 17_Q0: Any pattern of marks outside the definitions "all are blank".

Coding Table for Note 17_Q1: S13Q01, S13Q02

313Q01,		~	~	~	
N17_Q1	S13Q01 is:	S13Q02 is:	S13Q01 is coded as:	S13Q02 is coded as:	*
0	.N: Valid skip, or	.N: Valid skip, or	Stands as original	Stands as original value	
	.C:question should	.C:question should have	value		
	have been skipped	been skipped			
1	1: Yes	1-4: Time since last blood	Stands as original	Stands as original value	
		stool test, .: missing, or	value		
		-5: don't know			
2	1: Yes or .: missing	-6: Never had a blood stool	2: No	.C: Question should be	В
		test		skipped	F
3	2: No, -5: don't	1-4: Time since last blood	1: Yes	Stands as original value	В
	know, or .: missing	stool test			
4	2: No, -5: don't know	.: Missing, –6: never had a	Stands as original	.N: Valid skip if missing;	F
		blood stool test, or	value	.C: question should be	
		-5: don't know		skipped if marked	
5	.: Missing,	.: Missing, -5: don't know,	Stands as original	Stands as original value	
		.N: valid skip, or	value		
		.C:question should have			
		been skipped			

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 17_Q2: S13O03, S13O04-S13O05

N17_Q2	S13Q03	S13Q04-S13Q05	S13Q03	S13Q04-S13Q05	*
	is:	are:	is coded as:	are coded as:	
0	.N: Valid skip, or .C: question should have been skipped	.N: Valid skip, or .C: question should have been skipped	Stands as original value	Stands as original value	
1	1: Yes	At least one is "marked", "unmarked or don't know", or "all are blank"	Stands as original value	Stand as original value	
2	1: Yes, -5: don't know, or .: missing	"Blank or NA"	2: No	.N: Valid skip if missing; .C: question should be skipped if marked	B F
3	2: No, -5: don't know, or .: missing	At least one is "marked"	1: Yes	Stand as original value	В
4	2: No	"Blank or NA", "unmarked or don't know", or "all are blank"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
5	-5: Don't know	"Unmarked or don't know" or "all are blank"	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
6	.: Missing,	"Unmarked or don't know", "all are blank",	Stands as original value	Stand as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 17_Q2:

Responses to S13Q04-S13Q05 are all missing.

Definition of "blank or NA" in Coding Table for Note 17_Q2:

Responses to S13Q04-S13Q05 are either all not applicable (-6) or a combination of missing and not applicable (-6).

Definition of "unmarked or don't know" in Coding Table for Note 17_Q2:

Responses to S13Q04-S13Q05 are either all don't know (-5) or a combination of don't know (-5) and either missing or not applicable (-6).

Definition of "marked" in Coding Table for Note 17_Q2:

Any pattern of marks outside the definitions "all are blank", "blank or NA", or "unmarked or don't know".

Coding Table for Note 18:

H13053, H13054-H13056, H13057A-H13057D

N18	H13053	H13054-	H13057A-	H13053	H13054- H13056, H13057A-	*
	is:	H13056	H13057D	is coded as:	H13057D	
		are:	are:		are coded as:	
1	3: Some days,	Any value	Any value	Stands as original value	Stand as original value	
	4: every day,					
	or .: missing					
2	2: Not at all	Any value	"All are	Stands as original value	.N: Valid skip if missing or	F
	or -5: don't		unmarked"		unmarked;	
	know				.C: question should be skipped	
					if marked	
3	2: Not at all	Any value	At least one is	.: Missing	Stand as original value	В
			"marked"		-	
4	-5: Don't	Any value	At least one is	Stands as original value	.N: Valid skip if missing or	F
	know		"marked"		unmarked;	
					.C: question should be skipped	
					if marked	

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are unmarked" in Coding Table for Note 18: Responses to H13057A-H13057D are all missing or unmarked.

Definition of "marked" in Coding Table for Note 18: Any pattern of marks outside the definition "all are unmarked"

Coding Table for Note 19:

Note 19 (Part A) H13058, H13059B, H13060-H13064, SEX, XSEXA

N19A	H13058	SEX H13059BH13		XSEXA
	is:	is:	are:	is coded as:
1	.: Missing	F	Any marked	2: Female
2	.: Missing	F	All missing	2: Female
3	.: Missing	M	Any marked	1: Male
4	.: Missing	M	All missing	1: Male
5	.: Missing	Z or .: missing	Any marked	2: Female
6	.: Missing	Z	All missing	.: Missing
7	.: Missing	.: Missing	All missing	.: Missing
8	1: Male	Any value	All missing	1: Male
9	1: Male	F	Any marked	2: Female
10	1: Male	M, Z, or .: missing	Any marked	1: Male
11	2: Female	Any value	Any marked	2: Female
12	2: Female	M	All missing	1: Male
13	2: Female	F, Z, or .: missing	All missing	2: Female

SEX (PNSEXCD) is the gender from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

XSEXA is the recoded gender variable after taking into account the self-reported response (H13058), any responses to gender-specific questions, and the gender of the sample beneficiary from DEERS.

Note 19 (Part B):

XSEXA, H13059B, H13060-H13064

210121	41, 1113037 D ,	113000-111300-1		
N19B	XSEXA	H13059BH13064	H13059BH13064	*
	is:	are:	are coded as:	
1	1: Male	"All are blank"	.N: Valid skip	F
2	1: Male	At least one is "marked"	.N: Valid skip if missing;	F
			.C: question should be skipped if	
			marked	
3	2: Female	"All are blank" or at least one is "marked"	Stand as original value	
4	.: Missing	"All are blank" or at least one is "marked"	Missing value	F

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are blank" in Coding Table for Note 19b: All variables H13059B--H13064 are missing.

Definition of "marked" in Coding Table for Note 19b: Any pattern of marks outside the definition "all are blank".

Coding Table for Note 20 XSEXA, AGE, H13060, H13061

N20	XSEXA	AGE	H13060	H13061	H13060	H13061	*
	is:	is:	is:	is:	is coded as:	is coded as:	
1	1: Male	Any value	.N: Valid skip, or .C: question should be skipped	.N: Valid skip, or .C: question should be skipped	Stands as original value	Stands as original value	
2	2: Female	Any value	2: 40 or over	Any value	Stands as original value	Stands as original value	
3	2: Female	Any value	1: Under 40	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
4	2: Female	Any value	.: Missing	Marked	2: >= 40	Stands as original value	В
5	2: Female	< 40	.: Missing	.: Missing	1: < 40	.N: Valid skip	F B
6	2: Female	>=40	.: Missing	.: Missing	2: >= 40	Stands as original value	В
7	2: Female	.: Missing	.: Missing	.: Missing	Stands as original value	Stands as original value	
8	.: Missing	Any value	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

AGE (DAGEQY) is from the DEERS file. This variable is not used to override questionnaire responses, but to clear up any omissions or discrepancies in the responses.

Coding Table for Note 21: XSEXA, H13062-H13064

_		3062-H13064	H12062	II12064	H12062	H12062	H13064	*
N2 1	XSEXA is:	H13062 is:	H13063 is:	H13064 is:	H13062 is coded as:	H13063 is coded as:	is coded as:	-6
1	1: Male	Any value	Any value	Any value	Stands as original value	Stands as original value	Stands as original value	
2	2: Female	1: Pregnant now	1: First trimester	Any value	Stands as original value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	F
3	2: Female	1: Pregnant now	2: Second trimester	2: Third trimester	Stands as original value	Stands as original value	.: Missing	F
4	2: Female	1: Pregnant now	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or .: missing	Stands as original value	Stands as original value	Stands as original value	
5	2: Female	1: Pregnant now	3: Third trimester or .: missing	Any value	Stands as original value	Stands as original value	Stands as original value	
6	2: Female	2: Pregnant in last 12 months	Any value	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	Stands as original value	F
7	2: Female	3: Not pregnant in past 12 months	Any value	Any value	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	.N: Valid skip if missing; .C: question should be skipped if marked	F
8	2: Female	.: Missing	1: First trimester	Any value	1: Pregnant now	Stands as original value	.N: Valid skip if missing; .C: question should be skipped if marked	B F
9	2: Female	.: Missing	2: Second trimester	2: Third trimester	1: Pregnant now	Stands as original value	.: Missing	B F
10	2: Female	.: Missing	2: Second trimester	4: First trimester, 3: second trimester, 1: did not receive prenatal care, or .: missing	1: Pregnant now	Stands as original value	Stands as original value	В
11	2: Female	.: Missing	3: Third trimester	Any value	1: Pregnant now	Stands as original value	Stands as original value	В
12	2: Female	.: Missing	.: Missing	Any value	Stands as original value	Stands as original value	Stands as original value	F
13	.: Missing	.: Missing	Marked or .: missing	Any value	Stands as original value	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F)

Coding Table for Note 22: H13067, H13068

N22	H13067 is:	H13068 is:	H13067 is coded as:	H13068 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or .: missing	1: Yes or 2: no	1: Yes	Stands as original value	В
3	2: No	.: Missing	Stands as original value	.N: Valid skip	F
4	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 23: H13069, H13070

N23	H13069 is:	H13070 is:	H13069 is coded as:	H13070 is coded as:	*
1	1: Yes	Any value	Stands as original value	Stands as original value	
2	2: No or .: missing	1: Yes or 2: no	1: Yes	Stands as original value	В
3	2: No	.: Missing	Stands as original value	.N: Valid skip	F
4	.: Missing	.: Missing	Stands as original value	Stands as original value	

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 24: H13073, H13073A-H13073E

N24	H13073A	H13073B	H13073C	H13073D	H13073E	H13073	H13073A-E	*
	is:	is:	is:	is:	is:	is coded as:	are coded as:	
1	Any value	1: Marked	Any value	Any value	Any value	2: Yes, Mexican, Mexican American, Chicano	Stand as original value	F
2	Any value	2: Unmarked	Any value	Any value	1: Marked	5: Yes, other Spanish, Hispanic, or Latino	Stand as original value	F
3	Any value	2: Unmarked	1: Marked	Any value	2: Unmarked	3: Yes, Puerto Rican	Stand as original value	F
4	Any value	2: Unmarked	2: Unmarked	1: Marked	2: Unmarked	4: Yes, Cuban	Stand as original value	F
5	1: Marked	2: Unmarked	2: Unmarked	2: Unmarked	2: Unmarked	1: No, not Spanish, Hispanic, or Latino	Stand as original value	F
6	2:	2:	2:	2:	2:	.: Missing	Stand as	F

^{*} Indication of backward coding (B) or forward coding (F).

Coding Table for Note 25: H13074, H13075-H13079

N25	H13074 is:	H13075-H13079 are:	H13074 is coded as:	H13075-H13079 are coded as:	*
1	1: Yes	Any value	Stands as original value	Stand as original value	
2	2: No or -5: don't	"All are	Stands as original value	.N: Valid skip if missing;	F
	know	uncovered/unknown"		.C: question should be skipped	
				if marked	
3	2: No, -5: don't	At least one is	1: Yes	Stand as original value	В
	know, or .: missing	"covered"			
4	.: Missing	"All are	Stands as original value	Stand as original value	
		uncovered/unknown"			

^{*} Indication of backward coding (B) or forward coding (F).

Definition of "all are uncovered/unknown" in Coding Table for Note 25: Responses to H13075-H13079 are all 2: no, -5: don't know, or missing.

Definition of "covered" in Coding Table for Note 25:

Any pattern of marks outside the definition "all are uncovered/unknown".

APPENDIX C

MAPPING THE MILITARY TREATMENT FACILITY (MTF) TO THE CATCHMENT AREA

PA	AGE IS INTENTIONALLY LEFT BLANK TO AI	LLOW FOR DOUBLE-SIDED COPYING

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
0001	0001	FOX AHC-REDSTONE ARSENAL	630
0003	0003	LYSTER AHC-FT. RUCKER	686
0004	0004	42ND MEDICAL GROUP-MAXWELL	620
0005	0005	BASSETT ACH-FT. WAINWRIGHT	330
0005	0202	FT. GREELY AHC	1
0005	0204	TMC FT. RICHARDSON	239
0005	6033	KAMISH CLINIC-FT. WAINWRIGHT	236
0006	0006	673rd MED GRP-ELMENDORF	669
0008	8000	R W BLISS AHC-FT. HUACHUCA	673
0009	0009	56th MED GRP-LUKE	612
0010	0010	355th MED GRP-DAVIS MONTHAN	709
0013	0013	19th MEDICAL GROUP-LITTLE ROCK	747
0014	0014	60th MED GRP-TRAVIS	671
0018	0018	30th MED GRP-VANDENBERG	714
0019	0019	412th MED GRP-EDWARDS	678
0024	0024	NH CAMP PENDLETON	608
0024	0208	BMC MCB CAMP PENDLETON	38
0024	0210	BMC EDSON RANGE ANNEX	30
0024	0269	BMC YUMA	48
0024	1657	BMC CAMP DELMAR MCB	5
0024	1659	BMC SAN ONOFRE MCB	15
0024	6216	TRICARE OUTPATIENT-OCEANSIDE	46
0026	0026	NBHC PORT HUENEME	687
0028	0028	NH LEMOORE	637
0028	0319	NBHC FALLON	98
0029	0029	NMC SAN DIEGO	484
0029	0230	NBHC MCRD SAN DIEGO	9
0029	0232	BMC MCAS MIRAMAR	81
0029	0239	NBHC EL CENTRO	7
0029	0409	SD E COUNTY PRIMARY CARE CLIN	61
0029	0701	NBHC NAVSTA SAN DIEGO	40
0029	6207	TRICARE OUTPATIENT-CLAIREMONT	138
0030	0030	NH TWENTYNINE PALMS	694
0030	0212	NBHC NAVWPNCEN CHINA LAKE	81
0032	0032	EVANS ACH-FT. CARSON	406
0032	6102	PREMIER ARMY HEALTH CLINIC	41
0032	7293	TMC 10-FT. CARSON	98
0032	7300	TMC 9-FT. CARSON	114
0032	7301	WARRIOR CLINIC-FT. CARSON	69
0033	0033	10th MED GROUP-USAF ACADEMY CO	659
0038	0038	NH PENSACOLA	334
0038	0107	NBHC NSA MID-SOUTH	66
0038	0260	NBHC NAS PENSACOLA	54
0038	0261	NBHC MILTON WHITING FIELD	40
0038	0262	NBHC NATTC PENSACOLA	22
0038	0265	NBHC NAVCOASTSYSC PANAMA CITY	14
0038	0316	NBHC GULFPORT	64
0038	0317	NBHC MERIDIAN	26
0038	0436	NBHC NAS BELLE CHASE	98
0000	3-00		55

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
0038	0513	NBHC NTTC PENSACOLA	15
0039	0039	NH JACKSONVILLE	462
0039	0266	NBHC NAS JACKSONVILLE	81
0039	0275	NBHC ALBANY	22
0039	0337	NBHC KINGS BAY	114
0039	0517	NBHC KEY WEST	28
0042	0042	96th MED GRP-EGLIN	652
0043	0043	325th MED GRP-TYNDALL	631
0045	0045	6th MED GRP-MACDILL	442
0045	1946	BRANDON COMM CLINIC-MILITARY	189
0046	0046	45th MED GRP-PATRICK	617
0047	0047	EISENHOWER AMC-FT. GORDON	433
0047	1550	TMC-4-FT. GORDON	168
0047	7197	CONNELLY HLTH CLINIC-FT.GORDON	20
0047	7239	SOUTHCOM CLINIC	49
0047	8924	RODRIGUEZ ARMY HEALTH CLINIC	19
0048	0048	MARTIN ACH-FT. BENNING	395
0048	1315	CTMC-FT. BENNING	110
0048	1316	WINDER FPC-FT. BENNING	69
0048	1330	CTMC 2-HARMONY CHURCH-BENNING	41
0048	1332	7TH SPECIAL FORCES (TMC 9)	39
0048	1555	TMC-5-FT. BENNING	22
0048	6124	N COLUMBUS MED HOME-BENNING	53
0049	0049	WINN ACH-FT. STEWART	223
0049	0272	TUTTLE AHC-HUNTER ARMY AIRFLD	165
0049	6122	RICHMOND HILL MED HOME-STEWART	53
0049	7344	TROOP MED CLINIC-FT. STEWART	60
0049	7443	LLOYD C. HAWKS TMC	238
0051	0051	78th MED GRP-ROBINS	681
0052	0052	TRIPLER AMC-FT SHAFTER	366
0052	0437	SCHOFIELD BARRACKS AHC	135
0052	0534	TMC-1-SCHOF 25th-SCHOFIELD BKS	220
0052	6120	WARRIOR OHANA MED HOME-SHAFTER	47
0053	0053	366th MED GRP-MOUNTAIN HOME	715
0055	0055	375th MED GRP-SCOTT	652
0056	0056	JAMES A LOVELL FHCC	762
0056	1660	NBHC NCTC INPR GREAT LAKES	27
0056	1959	NBHC NTC GREAT LAKES	43
0057	0057	IRWIN ACH-FT. RILEY	164
0057	1539	AVIATION CLINIC-FT. RILEY	62
0057	7289	CUSTER HILL HC-FT. RILEY	165
0057	7337	AMH FARRELLY AHC-FT. RILEY	385
0058	0058	MUNSON AHC-FT. LEAVENWORTH	670
0060	0060	BLANCHFIELD ACH-FT. CAMPBELL	256
0060	1506	AVIATION MEDICINE CLINIC	99
0060	6108	SCREAMING EAGLE MED HOME-CAMPB	57
0060	7307	LA POINTE HEALTH CLINIC	241
0060	7307 7341	BYRD HEALTH CLIN-FT. CAMPBELL	140
0061	0061	IRELAND ACH-FT. KNOX	522
0001	0001	INCEMID AOITH I. MIVOA	JLL

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
0061	0290	ROCK ISLAND ARSENAL AHC	41
0061	7198	NELSON MEDICAL CLINIC-FT.KNOX	141
0062	0062	2nd MED GRP-BARKSDALE	710
0064	0064	BAYNE-JONES ACH-FT. POLK	745
0066	0066	779th MED GRP-ANDREWS	673
0067	0067	WALTER REED NATL MIL MED CNTR	582
0067	0256	DILORENZO TRICARE HEALTH CLIN	171
0068	0068	NHC PATUXENT RIVER	425
0068	0301	NBHC INDIAN HEAD	64
0068	0386	NBHC DAHLGREN	114
0068	0522	NBHC ANDREWS AFB	96
0069	0069	KIMBROUGH AMB CAR CEN-FT MEADE	286
0069	0308	KIRK AHC-ABERDEEN PRVNG GD	64
0069	0309	BARQUIST ARMY HEALTH CLINIC	66
0069	0352	DUNHAM AHC-CARLISLE BARRACKS	98
0069	0390	ANDREW RADER AHC MYER-HENDERSN	138
0069	0441	FILLMORE AHC AT NEW CUMBERLAND	23
0069	0545	OHC EDGEWOOD ARS	8
0073	0073	81st MED GRP-KEESLER	710
0074	0074	14th MED GRP-COLUMBUS	847
0075	0075	L. WOOD ACH-FT. LEONARD WOOD	648
0075	6115	OZARK MEDICAL HOME-LEONRD WOOD	100
0076	0076	509th MED GRP-WHITEMAN	700
0077	0077	341st MED GRP-MALMSTROM	703
0078	0078	55th MED GRP-OFFUTT	646
0079	0079	99th MED GRP-O'CALLAGHAN HOSP	653
0083	0083	377th MED GRP-KIRTLAND	700
0086	0086	KELLER ACH-WEST POINT	528
0086	1815	MOLOGNE TMC	278
0086	7154	MILLS TROOP CLINIC-FT. DIX	33
0089	0089	WOMACK AMC-FT. BRAGG	145
0089	6034	POPE HEALTH CLINIC	62
0089	6105	FAYETTEVILLE MEDICAL HOME-BRAG	55
0089	6106	HOPE MILLS MEDICAL HOME-BRAGG	28
0089	7143	ROBINSON CLINIC-FT. BRAGG	266
0089	7286	JOEL CLINIC-FT. BRAGG	59
0089	7294	CLARK CLINIC-FT. BRAGG	190
0091	0091	NH CAMP LEJEUNE	781
0091	0333	BMC MCAS NEW RIVER	69
0091	1662	BMC CAMP GEIGER MCB	17
0091	1663	BMC CAMP JOHNSON MCB	7
0091	1664	BMC COURTHOUSE BAY MCB	6
0091	1992	BMC BLDG 15 MCB CAMP LEJEUNE	17
0092	0092	NHC CHERRY POINT	672
0094	0094	5th MED GRP-MINOT	759
0095	0095	88th MED GRP-WRIGHT-PATTERSON	628
0096	0096	72nd MED GRP-TINKER	713
0098	0098	REYNOLDS ACH-FT. SILL	613
0098	6121	FRONTIER MEDICAL HOME-SILL	109
	J		

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
0100	0035	NBHC GROTON	267
0100	0100	NAVAL HLTH CLINIC NEW ENGLAND	255
0100	0321	NBHC PORTSMOUTH	77
0100	0328	NBHC SARATOGA SPRINGS	122
0101	0101	20th MED GRP-SHAW	744
0103	0103	NAVAL HEALTH CLINIC CHARLESTON	752
0104	0104	NH BEAUFORT	680
0104	0358	NBHC MCRD PARRIS ISLAND	82
0104	0360	NBHC MCAS BEAUFORT	35
0105	0105	MONCRIEF ACH-FT. JACKSON	627
0105	6114	MONCRIEF MEDICAL HOME-JACKSON	96
0108	0108	WILLIAM BEAUMONT AMC-FT. BLISS	90
0108	0327	AHC MCAFEE-WHITE SANDS MSL RAN	19
0108	1481	MENDOZA SOLDIER FAMILY CC	430
0108	1617	TMC MED EXAM-FT. BLISS	219
0109	0109	SAN ANTONIO MMC-FT. SAM HOUSTN	619
0109	6119	SCHERTZ MED HOME-JOINT (AF) SA	95
0110	0110	DARNALL AMC-FT. HOOD	82
0110	1592	MONROE CONSOLIDATED-FT. HOOD	168
0110	1599	TMC-12-FT. HOOD	27
0110	1601	TMC-14-FT. HOOD	5
0110	6014	CHARLES MOORE HLTH CLN-FT HOOD	132
0110	6076	WEST FORT HOOD CLINIC	90
0110	6111	HARKER HEIGHTS MED HOME-HOOD	36
0110	6112	KILLEEN MEDICAL HOME-HOOD	48
0110	6113	COPPERAS COVE MED HOME-HOOD	46
0110	7236	BENNETT FAM CARE CLINIC-HOOD	148
0112	0112	7th MED GRP-DYESS	740
0113	0113	82nd MED GRP-SHEPPARD	646
0117	0117	59th MED WING-LACKLAND	636
0118	0118	NHC CORPUS CHRISTI	481
0118	0369	NBHC KINGSVILLE	64
0118	0370	NBHC FORT WORTH	199
0119	0119	75th MED GRP-HILL	658
0120	0120	633rd MED GRP LANGLEY-EUSTIS	664
0121	0121	MCDONALD AHC-FT. EUSTIS	463
0121	0464	AHC FT. STORY	29
0121	0554	TMC-2-FT. EUSTIS	163
0122	0122	KENNER AHC-FT. LEE	659
0123	0123	FT BELVOIR COMMUNITY HOSP-FBCH	348
0123	6200	FAIRFAX HEALTH CENTER	109
0123	6201	DUMFRIES HEALTH CENTER	169
0124	0124	NMC PORTSMOUTH	489
0124	0380	NBHC NSY NORFOLK	4
0124	0381	NBHC YORKTOWN	27
0124	0382	NBHC DAM NECK	37
0124	0519	NBHC CHESAPEAKE	18
0124	6214	TRICARE OUTPATIENT CL VA BEACH	130
0124	6221	TRICARE OUTPATIENT CHESAPEAKE	85
V.=!	J !	The state of the s	

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
0125	0125	MADIGAN AMC-FT. LEWIS	227
0125	0247	MONTEREY AHC	54
0125	1485	US ARMY HEALTH CLN-MCCHORD AFB	40
0125	1489	555 EN/17 FIB SOLDIER CARE MH	55
0125	1646	WINDER FAMILY MEDICAL CL-JBLM	219
0125	1649	OKUBO FAM PRACT CLIN-FT LEWIS	100
0125	6116	MADIGAN-PUYALLUP MEDICAL HOME	28
0126	0126	NH BREMERTON	494
0126	0398	NBHC PUGET SOUND	8
0126	1656	NBHC SUBASE BANGOR	103
0126	7138	NHCL EVERETT	90
0127	0127	NH OAK HARBOR	714
0128	0128	92nd MED GRP-FAIRCHILD	670
0129	0129	90th MED GRP-F.E. WARREN	731
0131	0131	WEED ACH-FT. IRWIN	555
0131	0206	YUMA PROVING GROUND AHC	31
0131	1644	TMC-1-FT. IRWIN	248
0231	0231	NBHC NAS NORTH ISLAND	721
0248	0248	61st MED GROUP-LOS ANGELES	846
0252	0252	21st MED GRP-PETERSON	602
0252	1497	SCHRIEVER MEDICAL CLINIC	67
0280	0280	NHC HAWAII	507
0280	0284	NBHC NAVCAMS EASTPAC	69
0280	0285	BMC MCAS KANEOHE BAY	206
0280	1987	NBHC MCB CAMP H.M. SMITH	41
0306	0306	NHC ANNAPOLIS	315
0306	0322	BMC COLTS NECK EARLE	70
0306	0401	BMC LAKEHURST	67
0306	0525	NBHC BANCROFT HALL	344
0310	0310	66th MED GRP-HANSCOM	706
0330	0330	GUTHRIE AHC-FT. DRUM	321
0330	7113	CONNOR CTMC	518
0364	0364	17th MED GRP-GOODFELLOW	702
0366	0366	359th MED GRP-RANDOLPH	604
0378	0378	NBHC LITTLE CREEK	741
0385	0385	NHC QUANTICO	499
0385	0404	BMC SUGAR GROVE	5
0385	0703	NBHC WASHINGTON NAVY YARD	131
0385	1670	BMC OCS BROWN FIELD	60
0385	1671	NBHC THE BASIC SCHOOL	93
0387	0387	NBHC OCEANA	713
0405	0405	NBHC MAYPORT	703
0407	0407	NBHC NTC SAN DIEGO	661
0508	0508	NBHC NAVSTA SEWELLS	929
0606	0606	AHC HEIDELBERG	99
0606	7152	AHC COLEMAN-SANDHOFEN	5
0606	8987	AHC STUTTGART-PATCH BARRACKS	136
0607	0606	AHC HEIDELBERG	62
0607	0607	LANDSTUHL REGIONAL MEDCEN	146

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
0607	0611	VICENZA MEDICAL SERVICES CNTR	119
0607	0614	AHC SHAPE	37
0607	1126	AHC BAUMHOLDER	80
0607	1128	AHC KAISERSLAUTERN	82
0607	1147	AHC WIESBADEN	117
0607	1154	AHC LIVORNO	10
0607	8977	AHC BRUSSELS	9
0607	8987	AHC STUTTGART-PATCH BARRACKS	87
0609	1013	AHC BAMBERG	113
0609	1014	AHC ILLESHEIM	54
0609	1015	AHC KATTERBACH	75
0609	1016	AHC GRAFENWOEHR	171
0609	1017	AHC VILSECK	217
0609	1019	AHC HOHENFELS	68
0609	1124	AHC SCHWEINFURT	133
0612	0612	BRIAN ALLGOOD ACH-SEOUL	186
0612	1156	USAHC CAMP STANLEY	14
0612	1157	USAHC CAMP CASEY	216
0612	8903	USAHC CAMP HUMPHREYS	186
0612	8907	USAHC-CAMP WALKER	65
0612	8912	USAHC-CAMP RED CLOUD	29
0612	8913	USAHC-CAMP CARROLL	37
0612	8916	USAHC-YONGSAN	111
0620	0620	NH GUAM-AGANA	582
0620	0871	BMC NAVSTA GUAM	111
0621	0621	NH OKINAWA	658
0621	0861	BMC MCAS FUTENMA	12
0621	0862	BMC EVANS-CAMP FOSTER	35
0621	1269	BMC CAMP KINSER	50
0621	7032	BMC CAMP BUSH/COURTNEY	82
0621	7033	BMC CAMP HANSEN	1
0622	0622	NH YOKOSUKA	471
0622	0625	BMC IWAKUNI	106
0622	0852	NBHC COMFLEACT SASEBO	75
0622	0853	NBHC NAF ATSUGI	157
0622	8934	NBHC NSF DIEGO GARCIA	11
0622	8938	BMC YOKOHOMA	1
0622	8939	BMC CHINHEA	6
0633	0633	48th MED GRP-LAKENHEATH	787
0804	0804	18th MED GRP-KADENA AB	836
0805	0805	52nd MED GROUP-SPANGDAHLEM	831
0806	0806	86th MEDICAL GROUP-RAMSTEIN	834
6215	6215	TRICARE OUTPATIENT-CHULA VISTA	485
7139	7139	1st SPEC OPS MED GRP-HURLBURT	752
9001	0015	9th MED GRP-BEALE	1
9001	0034	USCG CLINIC NEW LONDON	49
9001	0036	436th MED GRP-DOVER	291
9001	0050	23rd MED GRP-MOODY	2
9001	0056	JAMES A LOVELL FHCC	<u> </u>

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9001	0059	22nd MED GRP-MCCONNELL	3
9001	0061	IRELAND ACH-FT. KNOX	282
9001	0066	779th MED GRP-ANDREWS	4
9001	0067	WALTER REED NATL MIL MED CNTR	838
9001	0069	KIMBROUGH AMB CAR CEN-FT MEADE	2
9001	0084	49th MED GRP-HOLLOMAN	1
9001	0086	KELLER ACH-WEST POINT	217
9001	0089	WOMACK AMC-FT. BRAGG	721
9001	0090	4th MED GRP-SEYMOUR JOHNSON	292
9001	0091	NH CAMP LEJEUNE	694
9001	0092	NHC CHERRY POINT	1
9001	0095	88th MED GRP-WRIGHT-PATTERSON	175
9001	0097	97th MED GRP-ALTUS	4
9001	0106	28th MED GRP-ELLSWORTH	1
9001	0114	47th MED GRP-LAUGHLIN	1
9001	0120	633rd MED GRP LANGLEY-EUSTIS	386
9001	0121	MCDONALD AHC-FT. EUSTIS	2
9001	0122	KENNER AHC-FT. LEE	1
9001	0123	FT BELVOIR COMMUNITY HOSP-FBCH	845
9001	0124	NMC PORTSMOUTH	1490
9001	0287	15th MED GRP-HICKAM	4
9001	0321	NBHC PORTSMOUTH	1
9001	0326	87th MED GRP-MCGUIRE	424
9001	0335	43RD MEDICAL GROUP-POPE	1
9001	0338	71st MED GRP-VANCE	2
9001	0356	628th MED GRP-CHARLESTON	3
9001	0390	ANDREW RADER AHC MYER-HENDERSN	4
9001	0413	579TH MED GROUP-BOLLING	170
9001	0418	USCG CLINIC ALAMEDA	4
9001	0419	USCG CLINIC PETALUMA	9
9001	0420	USCG CLINIC DISTRICT OF COLUMB	61
9001	0422	USCG CLINIC CLEARWATER	1
9001	0424	USCG CLINIC BALTIMORE	17
9001	0425	USCG CLINIC CAPE COD	36
9001	0426	USCG CLINIC BOSTON	36
9001	0427	USCG CLINIC TRAVERSE CITY	4
9001	0428	USCG CLINIC CAPE MAY	91
9001	0430	USCG CLINIC ELIZABETH CITY	22
9001	0432	USCG CLINIC PORTSMOUTH	87
9001	0433	USCG CLINIC YORKTOWN	31
9001	0434	USCG CLINIC PORT ANGELES	1
9001	0435	USCG CLINIC SEATTLE	1
9001	0615	NH GUANTANAMO BAY	5
9001	0617	NH NAPLES	8
9001	0618	NH ROTA	3
9001	0624	NH SIGONELLA	4
9001	0635	39th MED GROUP-INCIRLIK	3
9001	0639	35th MED GRP-MISAWA	5
9001	0640	374th MED GRP-YOKOTA AB	3
= = =	· = · -	-	-

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9001	0780	KENTUCKY-EXCL FT CAMPBELL AREA	345
9001	0781	NORTHEAST WEST VIRGINIA	60
9001	0782	WESTERN WEST VIRGINIA	260
9001	0783	EASTERN MISSOURI-ST LOUIS AREA	215
9001	0789	IOWA-QUAD CITIES AREA	20
9001	0799	470 MED FLT-GEILENKIRCHEN	2
9001	0802	36th MED GRP-ANDERSEN	1
9001	0814	423RD ABS OL-A-RAF UPWOOD	2
9001	0907	CONNECTICUT	467
9001	0908	DELAWARE	165
9001	0914	ILLINOIS	637
9001	0915	INDIANA	797
9001	0920	MAINE	256
9001	0921	MARYLAND	319
9001	0922	MASSACHUSETTS	563
9001	0923	MICHIGAN	931
9001	0930	NEW HAMPSHIRE	201
9001	0931	NEW JERSEY	510
9001	0933	NEW YORK	1323
9001	0934	NORTH CAROLINA	1078
9001	0936	OHIO	976
9001	0939	PENNSYLVANIA	1258
9001	0940	RHODE ISLAND	188
9001	0946	VERMONT	128
9001	0950	WISCONSIN	545
9001	0953	PUERTO RICO	1
9001	0971	CENTRAL AMERICA	1
9001	0983	OTHER PACIFIC	1
9001	0995	NORTHERN VIRGINIA	125
9001	0996	SOUTHERN VIRGINIA	604
9001	0999	UNKNOWN LOCATION	213
9001	1153	BMC CAPODICHINO	1
9001	1170	NBHC NSA BAHRAIN	33
9001	5195	USCG CLINIC DETROIT	16
9001	5196	USCG CLINIC NEW YORK	19
9001	5197	USCG CLINIC SAN JUAN	1
9001	5199	USCG CLINIC KEY WEST	3
9001	6034	POPE HEALTH CLINIC	2
9001	6200	FAIRFAX HEALTH CENTER	3
9001	7042	USCG CLINIC BORINQUEN	2
9001	7048	USCG CLINIC BASE MIAMI	_ 1
9001	7200	460th MED GRP-BUCKLEY AFB	5
9001	7234	MENWITH HILL MEDICAL CENTER	1
9001	7286	JOEL CLINIC-FT. BRAGG	3
9001	7294	CLARK CLINIC-FT. BRAGG	1
9002	0003	LYSTER AHC-FT. RUCKER	1
9002	0015	9th MED GRP-BEALE	3
9002	0013	USCG CLINIC NEW LONDON	2
9002	0034	436th MED GRP-DOVER	8
0002	3000	. Som med on boven	C

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9002	0038	NH PENSACOLA	239
9002	0039	NH JACKSONVILLE	694
9002	0042	96th MED GRP-EGLIN	337
9002	0045	6th MED GRP-MACDILL	3
9002	0046	45th MED GRP-PATRICK	1
9002	0047	EISENHOWER AMC-FT. GORDON	189
9002	0048	MARTIN ACH-FT. BENNING	270
9002	0049	WINN ACH-FT. STEWART	379
9002	0050	23rd MED GRP-MOODY	445
9002	0059	22nd MED GRP-MCCONNELL	1
9002	0060	BLANCHFIELD ACH-FT. CAMPBELL	460
9002	0064	BAYNE-JONES ACH-FT. POLK	86
9002	0073	81st MED GRP-KEESLER	195
9002	0084	49th MED GRP-HOLLOMAN	4
9002	0085	27th SPEC OPS MED GRP-CANNON	4
9002	0090	4th MED GRP-SEYMOUR JOHNSON	2
9002	0093	319th MED GRP-GRAND FORKS	1
9002	0097	97th MED GRP-ALTUS	143
9002	0098	REYNOLDS ACH-FT. SILL	141
9002	0104	NH BEAUFORT	111
9002	0105	MONCRIEF ACH-FT. JACKSON	322
9002	0106	28th MED GRP-ELLSWORTH	2
9002	0109	SAN ANTONIO MMC-FT. SAM HOUSTN	616
9002	0110	DARNALL AMC-FT. HOOD	659
9002	0113	82nd MED GRP-SHEPPARD	2
9002	0114	47th MED GRP-LAUGHLIN	129
9002	0117	59th MED WING-LACKLAND	10
9002	0120	633rd MED GRP LANGLEY-EUSTIS	1
9002	0130	USCG CLINIC KODIAK	1
9002	0203	354th MED GRP-EIELSON	3
9002	0287	15th MED GRP-HICKAM	2
9002	0326	87th MED GRP-MCGUIRE	20
9002	0338	71st MED GRP-VANCE	129
9002	0356	628th MED GRP-CHARLESTON	397
9002	0366	359th MED GRP-RANDOLPH	1
9002	0395	62nd MED SQUAD-MCCHORD	1
9002	0413	579TH MED GROUP-BOLLING	17
9002	0416	USCG CLINIC MOBILE	45
9002	0418	USCG CLINIC ALAMEDA	3
9002	0419	USCG CLINIC PETALUMA	4
9002	0420	USCG CLINIC DISTRICT OF COLUMB	3
9002	0421	USCG CLINIC AIR STATION MIAMI	22
9002	0422	USCG CLINIC CLEARWATER	52
9002	0423	USCG CLINIC NEW ORLEANS	32
9002	0428	USCG CLINIC CAPE MAY	9
9002	0430	USCG CLINIC ELIZABETH CITY	4
9002	0432	USCG CLINIC PORTSMOUTH	2
9002	0433	USCG CLINIC YORKTOWN	3
9002	0435	USCG CLINIC SEATTLE	1
-			

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9002	0610	BG CRAWFORD SAMS AHC-CAMP ZAMA	2
9002	0615	NH GUANTANAMO BAY	9
9002	0617	NH NAPLES	5
9002	0618	NH ROTA	3
9002	0624	NH SIGONELLA	5
9002	0635	39th MED GROUP-INCIRLIK	1
9002	0637	8th MED GRP-KUNSAN AB	2
9002	0638	51st MED GRP-OSAN AB	6
9002	0639	35th MED GRP-MISAWA	8
9002	0640	374th MED GRP-YOKOTA AB	4
9002	0653	422 ABS MED FLT-CROUGHTON	1
9002	0779	KENTUCKY-FT CAMPBELL AREA	28
9002	0787	GEORGIA-FORMER NOBLE CATCHMENT	10
9002	0799	470 MED FLT-GEILENKIRCHEN	3
9002	0802	36th MED GRP-ANDERSEN	2
9002	0808	31st MED GRP-AVIANO	8
9002	0814	423RD ABS OL-A-RAF UPWOOD	4
9002	0901	ALABAMA	1183
9002	0904	ARKANSAS	549
9002	0911	GEORGIA	1737
9002	0925	MISSISSIPPI	723
9002	0937	OKLAHOMA	797
9002	0941	SOUTH CAROLINA	822
9002	0943	TENNESSEE	1118
9002	0971	CENTRAL AMERICA	1
9002	0987	EASTERN FLORIDA	2021
9002	0988	WESTERN FLORIDA	201
9002	0989	EASTERN LOUISIANA	378
9002	0990	WESTERN LOUISIANA	374
9002	0993	EASTERN TEXAS	2902
9002	0999	UNKNOWN LOCATION	167
9002	1170	NBHC NSA BAHRAIN	33
9002	5195	USCG CLINIC DETROIT	1
9002	5197	USCG CLINIC SAN JUAN	1
9002	5199	USCG CLINIC KEY WEST	31
9002	7043	USCG CLINIC HONOLULU	1
9002	7044	USCG CLINIC JUNEAU	1
9002	7045	USCG CLINIC NORTH BEND	1
9002	7046	USCG CLINIC SAN PEDRO	1
9002	7048	USCG CLINIC BASE MIAMI	51
9002	7082	USCG CLINIC GALVESTON	36
9002	7200	460th MED GRP-BUCKLEY AFB	7
9002	7234	MENWITH HILL MEDICAL CENTER	1
9003	0005	BASSETT ACH-FT. WAINWRIGHT	90
9003	0006	673rd MED GRP-ELMENDORF	164
9003	0009	56th MED GRP-LUKE	4
9003	0014	60th MED GRP-TRAVIS	386
9003	0015	9th MED GRP-BEALE	227
9003	0013	NH CAMP PENDLETON	984
3003	0024	THE OWNER OF ENDERTON	554

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9003	0028	NH LEMOORE	134
9003	0029	NMC SAN DIEGO	1346
9003	0030	NH TWENTYNINE PALMS	82
9003	0032	EVANS ACH-FT. CARSON	654
9003	0033	10th MED GROUP-USAF ACADEMY CO	3
9003	0034	USCG CLINIC NEW LONDON	3
9003	0050	23rd MED GRP-MOODY	2
9003	0052	TRIPLER AMC-FT SHAFTER	593
9003	0053	366th MED GRP-MOUNTAIN HOME	29
9003	0057	IRWIN ACH-FT. RILEY	183
9003	0059	22nd MED GRP-MCCONNELL	250
9003	0075	L. WOOD ACH-FT. LEONARD WOOD	135
9003	0078	55th MED GRP-OFFUTT	1
9003	0079	99th MED GRP-O'CALLAGHAN HOSP	256
9003	0084	49th MED GRP-HOLLOMAN	217
9003	0085	27th SPEC OPS MED GRP-CANNON	263
9003	0093	319th MED GRP-GRAND FORKS	121
9003	0097	97th MED GRP-ALTUS	7
9003	0106	28th MED GRP-ELLSWORTH	241
9003	0108	WILLIAM BEAUMONT AMC-FT. BLISS	383
9003	0114	47th MED GRP-LAUGHLIN	3
9003	0125	MADIGAN AMC-FT. LEWIS	745
9003	0126	NH BREMERTON	187
9003	0127	NH OAK HARBOR	79
9003	0130	USCG CLINIC KODIAK	38
9003	0131	WEED ACH-FT. IRWIN	46
9003	0203	354th MED GRP-EIELSON	129
9003	0231	NBHC NAS NORTH ISLAND	2
9003	0232	BMC MCAS MIRAMAR	1
9003	0287	15th MED GRP-HICKAM	323
9003	0326	87th MED GRP-MCGUIRE	6
9003	0338	71st MED GRP-VANCE	4
9003	0356	628th MED GRP-CHARLESTON	2
9003	0395	62nd MED SQUAD-MCCHORD	158
9003	0407	NBHC NTC SAN DIEGO	7
9003	0417	USCG CLINIC KETCHIKAN	8
9003	0418	USCG CLINIC ALAMEDA	67
9003	0419	USCG CLINIC PETALUMA	50
9003	0420	USCG CLINIC DISTRICT OF COLUMB	1
9003	0422	USCG CLINIC CLEARWATER	1
9003	0423	USCG CLINIC NEW ORLEANS	1
9003	0428	USCG CLINIC CAPE MAY	12
9003	0430	USCG CLINIC ELIZABETH CITY	2
9003	0431	USCG CLINIC ASTORIA	20
9003	0432	USCG CLINIC PORTSMOUTH	3
9003	0433	USCG CLINIC YORKTOWN	1
9003	0434	USCG CLINIC PORT ANGELES	7
9003	0435	USCG CLINIC SEATTLE	46
9003	0437	SCHOFIELD BARRACKS AHC	2
2000	0.07	0001 1225 57 11 10 10 10 10 10	_

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9003	0610	BG CRAWFORD SAMS AHC-CAMP ZAMA	1
9003	0615	NH GUANTANAMO BAY	17
9003	0617	NH NAPLES	3
9003	0618	NH ROTA	2
9003	0624	NH SIGONELLA	7
9003	0635	39th MED GROUP-INCIRLIK	1
9003	0637	8th MED GRP-KUNSAN AB	5
9003	0638	51st MED GRP-OSAN AB	5
9003	0639	35th MED GRP-MISAWA	5
9003	0640	374th MED GRP-YOKOTA AB	2
9003	0784	WESTERN MISSOURI	741
9003	0785	ARIZONA-EXCLUDING YUMA AREA	996
9003	0786	YUMA ARIZONA AREA	190
9003	0788	IOWA-EXCLUDING QUAD CITIES	391
9003	0802	36th MED GRP-ANDERSEN	8
9003	0808	31st MED GRP-AVIANO	2
9003	0814	423RD ABS OL-A-RAF UPWOOD	1
9003	0902	ALASKA	106
9003	0906	COLORADO	531
9003	0912	HAWAII	67
9003	0917	KANSAS	583
9003	0924	MINNESOTA	719
9003	0927	MONTANA	247
9003	0928	NEBRASKA	380
9003	0929	NEVADA	199
9003	0932	NEW MEXICO	417
9003	0935	NORTH DAKOTA	169
9003	0938	OREGON	556
9003	0942	SOUTH DAKOTA	206
9003	0945	UTAH	545
9003	0948	WASHINGTON	851
9003	0951	WYOMING	127
9003	0973	NORTHERN IDAHO	48
9003	0974	SOUTHERN IDAHO	247
9003	0985	NORTHERN CALIFORNIA	1009
9003	0986	SOUTHERN CALIFORNIA	1375
9003	0994	WESTERN TEXAS	3
9003	0999	UNKNOWN LOCATION	185
9003	1170	NBHC NSA BAHRAIN	38
9003	1485	US ARMY HEALTH CLN-MCCHORD AFB	4
9003	6207	TRICARE OUTPATIENT-CLAIREMONT	2
9003	6215	TRICARE OUTPATIENT-CHULA VISTA	1
9003	6216	TRICARE OUTPATIENT-OCEANSIDE	1
9003	7043	USCG CLINIC HONOLULU	13
9003	7044	USCG CLINIC JUNEAU	11
9003	7045	USCG CLINIC NORTH BEND	4
9003	7046	USCG CLINIC SAN PEDRO	15
9003	7047	USCG CLINIC SITKA	8
9003	7048	USCG CLINIC BASE MIAMI	1
0000			•

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9003	7083	USCG CLINIC HUMBOLDT BAY	6
9003	7200	460th MED GRP-BUCKLEY AFB	225
9004	0036	436th MED GRP-DOVER	2
9004	0050	23rd MED GRP-MOODY	2
9004	0059	22nd MED GRP-MCCONNELL	2
9004	0084	49th MED GRP-HOLLOMAN	1
9004	0085	27th SPEC OPS MED GRP-CANNON	2
9004	0090	4th MED GRP-SEYMOUR JOHNSON	3
9004	0093	319th MED GRP-GRAND FORKS	1
9004	0106	28th MED GRP-ELLSWORTH	1
9004	0114	47th MED GRP-LAUGHLIN	1
9004	0287	15th MED GRP-HICKAM	1
9004	0326	87th MED GRP-MCGUIRE	7
9004	0356	628th MED GRP-CHARLESTON	1
9004	0413	579TH MED GROUP-BOLLING	5
9004	0419	USCG CLINIC PETALUMA	1
9004	0430	USCG CLINIC ELIZABETH CITY	1
9004	0607	LANDSTUHL REGIONAL MEDCEN	309
9004	0610	BG CRAWFORD SAMS AHC-CAMP ZAMA	91
9004	0611	VICENZA MEDICAL SERVICES CNTR	68
9004	0612	BRIAN ALLGOOD ACH-SEOUL	172
9004	0615	NH GUANTANAMO BAY	101
9004	0617	NH NAPLES	234
9004	0618	NH ROTA	168
9004	0620	NH GUAM-AGANA	164
9004	0621	NH OKINAWA	198
9004	0622	NH YOKOSUKA	209
9004	0624	NH SIGONELLA	138
9004	0629	65th MED GRP-LAJES	63
9004	0633	48th MED GRP-LAKENHEATH	101
9004	0635	39th MED GROUP-INCIRLIK	121
9004	0637	8th MED GRP-KUNSAN AB	135
9004	0638	51st MED GRP-OSAN AB	544
9004	0639	35th MED GRP-MISAWA	353
9004	0640	374th MED GRP-YOKOTA AB	382
9004	0653	422 ABS MED FLT-CROUGHTON	48
9004	0799	470 MED FLT-GEILENKIRCHEN	89
9004	0802	36th MED GRP-ANDERSEN	252
9004	0808	31st MED GRP-AVIANO	385
9004	0814	423RD ABS OL-A-RAF UPWOOD	94
9004	0858	BMC NAVSUPPACT SOUDA BAY	20
9004	0953	PUERTO RICO	2322
9004	0957	GERMANY	954
9004	0958	GREECE	19
9004	0960	ITALY	70
9004	0961	JAPAN	215
9004	0963	PHILIPPINES	122
9004	0964	PORTUGAL	26
9004	0965	KOREA	87
0001	2200		3.

GEOGRAPHIC SAMPLING			
STRATA	DMIS ID	FACILITY NAME	# SAMPLED IN 2013
9004	0966	SPAIN	64
9004	0967	TURKEY	53
9004	0968	UNITED KINGDOM	126
9004	0969	CANADA	16
9004	0970	OTHER CARIBBEAN	22
9004	0971	CENTRAL AMERICA	96
9004	0972	SOUTH AMERICA	76
9004	0975	U.S. VIRGIN ISLANDS	117
9004	0976	AFRICA	46
9004	0977	MIDEAST	242
9004	0978	SOUTHEAST ASIA	147
9004	0979	BELGIUM	90
9004	0982	OTHER EUROPE	161
9004	0983	OTHER PACIFIC	182
9004	0999	UNKNOWN LOCATION	3475
9004	1153	BMC CAPODICHINO	97
9004	1170	NBHC NSA BAHRAIN	203
9004	5197	USCG CLINIC SAN JUAN	30
9004	6894	TGRO OUTREACH-EUROPE	1
9004	7042	USCG CLINIC BORINQUEN	19
9004	7048	USCG CLINIC BASE MIAMI	1
9004	7200	460th MED GRP-BUCKLEY AFB	5
9004	7234	MENWITH HILL MEDICAL CENTER	35
9004	8987	AHC STUTTGART-PATCH BARRACKS	1
			153000

APPENDIX D

RESPONSE RATE TABLES – QUARTERS I-III AND COMBINED ANNUAL

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

TABLE D.1 RESPONSE RATES BY ENROLLMENT AND BENEFICIARY

	Q1 2013		Q2 2013		Q3 2013		COMBINED	
	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W
Active Duty	13.9	11.7	12.6	10.5	13.3	11.3	13.3	11.1
Active Duty fam, Prime, civ PCM	13.4	13.2	13.2	13.1	10.9	10.9	12.5	12.4
Active Duty fam, Prime, mil PCM	14.1	14.4	12.6	11.9	11.0	10.6	12.6	12.3
Active Duty fam, non-enrollee	10.7	10.5	9.1	9.2	8.8	9.6	9.6	9.8
Retired,<65,civ PCM	39.0	40.1	36.2	36.9	30.1	31.0	35.1	36.0
Retired,<65,mil PCM	37.7	38.5	30.8	32.2	28.5	29.1	32.3	33.3
Retired,<65,non-enrollee	31.9	35.7	27.3	31.0	24.6	28.5	27.9	31.7
Retired,65+,enrolled	66.0	66.4	61.5	61.4	66.0	66.2	64.4	64.6
Retired,65+,non-enrollee	67.2	67.2	62.7	62.6	59.5	59.3	63.1	63.0
TRICARE Reserve Select	17.0	17.0	14.5	14.5	14.9	14.9	15.5	15.4

TABLE D.2 **RESPONSE RATES BY XOCONUS**

	Q1 2	Q1 2013		Q2 2013		Q3 2013		COMBINED	
	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W	
Europe	17.1	17.3	14.2	13.3	12.0	12.7	14.5	14.5	
In Conus/Missing Region	19.7	36.8	17.4	33.6	16.7	31.7	17.9	34.0	
Latin America	20.1	31.8	19.0	23.4	18.3	25.6	19.1	27.1	
Western Pacific	14.8	13.6	12.9	12.1	12.3	11.7	13.3	12.5	

TABLE D.3
RESPONSE RATES BY SEX

	Q1 2013		Q2 2	Q2 2013		Q3 2013		COMBINED	
	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W	
Female	19.5	36.5	17.3	33.8	16.0	32.1	17.6	34.1	
Male	19.3	35.5	16.8	31.8	16.5	29.8	17.5	32.4	

TABLE D.4
RESPONSE RATES BY USA/OVERSEAS INDICATOR

	Q1 2013		Q2 2013		Q3 2013		COMBINED	
	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W
In USA	19.8	36.9	17.6	33.7	16.9	31.8	18.1	34.1
Invalid/Missing	17.2	33.0	13.4	29.9	12.0	26.2	14.2	30.5
Not in USA	16.7	17.3	14.4	13.7	13.1	13.8	14.7	14.9

RR=Unweighted RR_W=Weighted

TABLE D.5
RESPONSE RATES BY BENEFICIARY CATEGORY

	Q1 2013		Q2 2013		Q3 2	2013	13 COMBINE	
	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W
Active Duty and Guard/Reserve	13.9	11.9	12.6	10.5	13.3	11.5	13.3	11.3
Dependent of Active Duty & Guard/Reserve	12.8	13.5	11.5	12.1	10.2	10.7	11.5	12.1
Retiree/Depend of Retir/Surviv/Other 65+	67.1	67.1	62.6	62.5	60.0	59.9	63.2	63.1
Retiree/Depend of Retir/Surviv/Other <65	35.3	37.6	30.1	32.9	27.0	29.4	30.8	33.3

TABLE D.6
RESPONSE RATES BY CATCHMENT AREA

RR	BINED	COME	2013	Q3 2	2013	Q2 :	3	Q1 20	
18th Med Grp-Kadena AB 20.1 20.6 11.2 11.5 16.7 17.2 16.0 20th Med Grp-Shaw 19.7 22.0 13.8 11.4 16.5 17.5 16.6 21st Med Grp-Peterson 20.0 24.5 19.4 22.7 13.7 15.4 17.6 2nd Med Grp-Barksdale 16.4 19.8 20.0 21.1 19.1 20.2 18.5 355th Med Grp-Tyndall 20.6 24.2 18.5 20.0 14.1 16.6 18.3 355th Med Grp-Randolph 29.4 34.4 17.0 18.7 21.2 32.6 12.5 366th Med Grp-Mountain Home 20.6 26.0 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 30.0 27.4 24.5 422 ABS Med Flt-Croughton	RR_w	RR	RR_w	RR	RR_w	RR	RR _w	RR	
20th Med Grp-Shaw 19.7 22.0 13.8 14.4 16.5 17.5 16.6 21st Med Grp-Peterson 20.0 24.5 19.4 22.7 13.7 15.4 17.6 2nd Med Grp-Barksdale 16.4 19.8 20.0 21.1 19.1 20.2 18.5 355th Med Grp-Tyndall 20.6 24.2 18.5 20.1 17.7 18.6 18.9 355th Med Grp-Davis Monthan 22.0 25.6 18.8 20.0 14.1 16.6 18.3 355th Med Grp-Randolph 29.4 34.4 17.0 18.7 21.2 32.6 22.5 366th Med Grp-Mountain Home 20.6 26.0 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Ykota AB 15.5 14.4 16.5 16.3 14.9 15.6 15.7 375th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 37th Med Grp-Kirland 22.3 21.9 19.1 20.7 16.3 19.3 19.3 422 ABS Med Fli-Croughton 22.2 <td>23.9</td> <td>18.2</td> <td>17.9</td> <td>15.8</td> <td>25.6</td> <td>18.4</td> <td>28.6</td> <td>20.4</td> <td>10th Med Group-USAF Academy CO</td>	23.9	18.2	17.9	15.8	25.6	18.4	28.6	20.4	10th Med Group-USAF Academy CO
21st Med Grp-Peterson 20.0 24.5 19.4 22.7 13.7 15.4 17.6 2nd Med Grp-Barksdale 16.4 19.8 20.0 21.1 19.1 20.2 18.5 25th Med Grp-Davis Monthan 22.0 25.6 18.8 20.0 14.1 16.6 18.8 355th Med Grp-Davis Monthan 22.0 25.6 18.8 20.0 14.1 16.6 18.3 359th Med Grp-Bandolph 29.4 34.4 17.0 18.7 21.2 32.6 22.5 366th Med Grp-Mountain Home 20.6 26.0 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 19.3 422 ABS Med Fli-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 422h Medical Group-Maxwell	16.4	16.0	17.2	16.7	11.5	11.2	20.6	20.1	18th Med Grp-Kadena AB
2nd Med Grp-Barksdale 16.4 19.8 20.0 21.1 19.1 20.2 18.5 325th Med Grp-Tyndall 20.6 24.2 18.5 20.1 11.7 18.6 18.9 355th Med Grp-Davis Monthan 22.0 25.6 18.8 20.0 14.1 16.6 18.3 359th Med Grp-Randolph 29.4 34.4 17.0 18.7 21.2 32.6 22.5 366th Med Grp-Rountain Home 20.6 26.0 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Yokota AB 15.5 14.4 16.5 16.3 14.9 15.6 15.7 375th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Kirtland 22.3 21.9 19.1 20.7 16.3 19.3 19.3 3rd Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.0 27.4 24.5 42.0 Ab Med Fit-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42.0 Med Grp-Elmi	18.0	16.6	17.5	16.5	14.4	13.8	22.0	19.7	20th Med Grp-Shaw
325th Med Grp-Tyndall 20.6 24.2 18.5 20.1 17.7 18.6 18.9 355th Med Grp-Davis Monthan 22.0 25.6 18.8 20.0 14.1 16.6 18.3 359th Med Grp-Randolph 29.4 34.4 17.0 18.7 21.2 32.6 22.5 366th Med Grp-Randolph 29.4 34.4 17.0 18.7 21.2 32.6 22.5 366th Med Grp-Mountain Home 20.6 26.0 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Yokota AB 15.5 14.4 16.5 16.3 14.9 15.6 15.7 375th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med FIt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 19.2 21.4 22.4 45th Med Grp-Lakenheath <	20.8	17.6	15.4	13.7	22.7	19.4	24.5	20.0	21st Med Grp-Peterson
355th Med Grp-Davis Monthan 22.0 25.6 18.8 20.0 14.1 16.6 18.3 359th Med Grp-Randolph 29.4 34.4 17.0 18.7 21.2 32.6 22.5 366th Med Grp-Mountain Home 20.6 20.6 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Wokota AB 15.5 14.4 16.5 16.3 11.9 15.6 15.7 375th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med FIt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Fit-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 12.6 23.4 48th Med Grp-Lakenheath	20.4	18.5	20.2	19.1	21.1	20.0	19.8	16.4	2nd Med Grp-Barksdale
359th Med Grp-Randolph 29.4 34.4 17.0 18.7 21.2 32.6 22.5 366th Med Grp-Mountain Home 20.6 26.0 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Yokota AB 15.5 14.4 16.5 16.3 14.9 15.6 15.8 375th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Kirtland 22.3 21.9 19.1 20.7 16.3 19.3 19.3 3rd Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med Flt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42h Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.2 42th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 42th Med Grp-Lakenheath 17.7 18.4 15.3	21.0	18.9	18.6	17.7	20.1	18.5	24.2	20.6	325th Med Grp-Tyndall
366th Med Grp-Mountain Home 20.6 26.0 19.8 18.3 21.0 36.1 20.4 374th Med Grp-Yokota AB 15.5 14.4 16.5 16.3 14.9 15.6 15.7 375th Med Grp-Scott 27.8 32.3 11.0 17.2 22.1 25.8 22.3 377th Med Grp-Kiritand 22.3 21.9 19.1 20.7 16.3 19.3 19.3 37d Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med Flt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 26.9 25.3 16.7 22.6 23.4 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 16.6 23.7 17.7 56th Med Grp-L	20.7	18.3	16.6	14.1	20.0	18.8	25.6	22.0	355th Med Grp-Davis Monthan
374th Med Grp-Yokota AB 15.5 14.4 16.5 16.3 14.9 15.6 15.7 375th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Kirtland 22.3 21.9 19.1 20.7 16.3 19.3 19.3 3rd Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med Flt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Gru-Lakenheath 20.5 21.9 17.9 19.2 14.7 15.9 16.6 26.3 21.5 26.1 <	28.8	22.5	32.6	21.2	18.7	17.0	34.4	29.4	359th Med Grp-Randolph
375th Med Grp-Scott 27.8 32.3 17.0 17.2 22.1 25.8 22.3 377th Med Grp-Kirtland 22.3 21.9 19.1 20.7 16.3 19.3 19.3 3rd Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med Flt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.	26.4	20.4	36.1	21.0	18.3	19.8	26.0	20.6	366th Med Grp-Mountain Home
377th Med Grp-Kirtland 22.3 21.9 19.1 20.7 16.3 19.3 19.3 3rd Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med Flt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 470 Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 21.6 23.4 48th Med Grop-Lakeheath 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grop-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Grp-Luke 24.3	15.4	15.7	15.6	14.9	16.3	16.5	14.4	15.5	374th Med Grp-Yokota AB
3rd Med Grp-Elmendorf 24.0 34.4 16.9 24.2 16.1 36.1 18.9 422 ABS Med Flt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Tankie 22.9 </td <td>25.2</td> <td>22.3</td> <td>25.8</td> <td>22.1</td> <td>17.2</td> <td>17.0</td> <td>32.3</td> <td>27.8</td> <td>375th Med Grp-Scott</td>	25.2	22.3	25.8	22.1	17.2	17.0	32.3	27.8	375th Med Grp-Scott
422 ABS Med Flt-Croughton 22.2 23.7 18.2 16.1 30.0 27.4 24.5 42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp-MacDill 26.5	20.7	19.3	19.3	16.3	20.7	19.1	21.9	22.3	377th Med Grp-Kirtland
42nd Medical Group-Maxwell 26.2 31.3 21.7 23.3 19.2 21.4 22.4 45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp-Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5<	31.6	18.9	36.1	16.1	24.2	16.9	34.4	24.0	3rd Med Grp-Elmendorf
45th Med Grp-Patrick 27.1 43.8 24.5 33.3 21.4 27.2 24.3 470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp-Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5	23.4	24.5	27.4	30.0	16.1	18.2	23.7	22.2	422 ABS Med Flt-Croughton
470 Med Flt-Geilenkirchen 26.3 27.8 26.9 25.3 16.7 22.6 23.4 48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Robins 25.4	25.3	22.4	21.4	19.2	23.3	21.7	31.3	26.2	42nd Medical Group-Maxwell
48th Med Grp-Lakenheath 17.7 18.4 15.3 13.4 16.7 17.6 16.6 52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 <td< td=""><td>35.3</td><td>24.3</td><td>27.2</td><td>21.4</td><td>33.3</td><td>24.5</td><td>43.8</td><td>27.1</td><td>45th Med Grp-Patrick</td></td<>	35.3	24.3	27.2	21.4	33.3	24.5	43.8	27.1	45th Med Grp-Patrick
52nd Med Group-Spangdahlem 20.5 21.9 17.9 19.2 14.7 15.9 17.7 55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 77th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Sheppard 24.9 29.9	25.5	23.4	22.6	16.7	25.3	26.9	27.8	26.3	470 Med Flt-Geilenkirchen
55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 77th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Sheppard 24.9 29.9	16.3	16.6	17.6	16.7	13.4	15.3	18.4	17.7	48th Med Grp-Lakenheath
55th Med Grp-Offutt 25.0 32.2 20.1 24.5 19.5 26.3 21.5 56th Med Grp-Luke 24.3 30.4 20.5 33.0 15.0 30.1 19.9 59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 77th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Sheppard 24.9 29.9	19.0	17.7	15.9	14.7	19.2	17.9	21.9	20.5	52nd Med Group-Spangdahlem
59th Med Wing-Lackland 18.9 34.7 15.6 16.7 16.6 23.7 17.0 60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	27.6	21.5	26.3	19.5	24.5	20.1	32.2	25.0	55th Med Grp-Offutt
60th Med Grp-Travis 21.9 34.2 17.3 29.6 23.7 38.8 21.0 633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	31.1	19.9	30.1	15.0	33.0	20.5	30.4	24.3	56th Med Grp-Luke
633rd Med Grp Langley-Eustis 22.4 33.8 19.0 29.2 13.5 22.1 18.3 6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	25.5	17.0	23.7	16.6	16.7	15.6	34.7	18.9	59th Med Wing-Lackland
6th Med Grp-MacDill 26.5 33.9 22.3 35.3 16.6 26.6 21.8 72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	34.3	21.0	38.8	23.7	29.6	17.3	34.2	21.9	60th Med Grp-Travis
72nd Med Grp-Tinker 18.5 20.2 16.7 18.7 14.5 15.5 16.5 75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	28.3	18.3	22.1	13.5	29.2	19.0	33.8	22.4	633rd Med Grp Langley-Eustis
75th Med Grp-Hill 19.4 22.5 18.6 21.8 16.9 19.5 18.3 779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	31.5	21.8	26.6	16.6	35.3	22.3	33.9	26.5	6th Med Grp-MacDill
779th Med Grp-Andrews 20.9 23.6 17.2 20.5 17.4 19.1 18.5 78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	18.1	16.5	15.5	14.5	18.7	16.7	20.2	18.5	72nd Med Grp-Tinker
78th Med Grp-Robins 25.4 29.6 16.9 20.3 16.8 18.2 19.7 7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	21.3	18.3	19.5	16.9	21.8	18.6	22.5	19.4	75th Med Grp-Hill
7th Med Grp-Dyess 16.1 19.1 17.8 19.9 14.6 17.0 16.1 81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	21.0	18.5	19.1	17.4	20.5	17.2	23.6	20.9	779th Med Grp-Andrews
81st Med Grp-Keesler 21.6 43.4 18.0 27.9 16.0 30.3 18.6 82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	22.6	19.7	18.2	16.8	20.3	16.9	29.6	25.4	78th Med Grp-Robins
82nd Med Grp-Sheppard 24.9 29.9 29.0 40.1 19.1 21.7 24.3	18.7	16.1	17.0	14.6	19.9	17.8	19.1	16.1	7th Med Grp-Dyess
• • • • • • • • • • • • • • • • • • • •	34.0	18.6	30.3	16.0	27.9	18.0	43.4	21.6	81st Med Grp-Keesler
	32.1	24.3	21.7	19.1	40.1	29.0	29.9	24.9	82nd Med Grp-Sheppard
88th Med Grp-Wright-Patterson 24.4 34.2 21.2 32.0 22.7 37.2 22.8	34.5	22.8	37.2	22.7	32.0	21.2	34.2	24.4	88th Med Grp-Wright-Patterson

TABLE D.6 (continued)

	Q1 20)13	Q2	2013	Q3 2	2013	COMBINED	
	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w
90th Med Grp-F.E. Warren	23.2	28.7	19.8	21.0	16.4	16.9	19.7	22.0
92nd Med Grp-Fairchild	14.9	19.9	18.9	22.7	21.4	25.9	18.5	22.8
95th Med Grp-Edwards	20.7	22.4	16.3	17.5	17.2	18.1	18.1	19.3
96th Med Grp-Eglin	18.9	40.7	20.1	32.5	18.0	34.3	19.0	36.2
99th Med Grp-O'Callaghan Hosp	29.3	44.3	18.2	31.6	19.2	31.7	22.1	36.0
Bassett ACH-Ft. Wainwright	11.0	11.1	10.2	12.7	11.8	11.9	10.9	11.9
Bavaria Meddac	11.9	10.8	9.7	9.1	8.5	8.4	10.0	9.4
Bayne-Jones ACH-Ft. Polk	14.8	17.8	10.8	22.7	11.5	12.1	12.3	18.1
Blanchfield ACH-Ft. Campbell	12.5	19.1	12.0	17.3	13.7	16.2	12.7	17.4
Brian Allgood ACH-Seoul	14.2	13.4	9.2	7.7	8.2	8.0	10.5	9.7
Brooke AMC-Ft. Sam Houston	16.6	37.2	19.3	41.6	17.0	33.0	17.6	37.0
Darnall ACH-Ft. Hood	14.0	24.5	8.8	17.2	11.2	19.5	11.4	20.5
Eisenhower AMC-Ft. Gordon	15.2	29.1	14.0	24.6	13.4	21.7	14.2	25.0
Evans ACH-Ft. Carson	12.8	22.7	11.1	19.7	13.9	26.8	12.5	23.2
FHCC-Formerly NHC Great Lakes	14.0	18.5	13.4	31.2	10.2	22.3	12.6	24.7
Fox AHC-Redstone Arsenal	24.5	30.2	19.0	23.0	22.0	25.9	21.9	26.3
Ft Belvoir Community Hosp-FBCH	24.2	36.3	26.1	38.2	18.7	30.6	22.9	35.0
Guthrie AHC-Ft. Drum	12.0	9.8	6.1	4.7	6.5	5.9	8.2	6.9
Heidelberg Meddac	17.2	28.8					17.2	28.8
Ireland ACH-Ft. Knox	17.3	36.4	13.3	24.8	14.1	26.9	14.9	29.7
Irwin ACH-Ft. Riley	11.4	20.7	8.5	18.8	10.8	18.7	10.2	19.4
Keller ACH-West Point	14.3	18.5	9.2	9.1	12.3	33.6	11.9	21.4
Kenner AHC-Ft. Lee	17.7	30.1	16.3	22.7	13.7	13.6	15.9	22.4
Kimbrough Amb Car Cen-Ft Meade	18.0	27.5	16.0	21.4	16.0	25.8	16.7	25.0
L. Wood ACH-Ft. Leonard Wood	12.9	18.8	12.0	15.9	14.1	23.6	13.0	19.6
Landstuhl Regional Medcen	15.3	17.3	14.5	15.6	9.6	12.0	13.1	14.8
Lyster AHC-Ft. Rucker	17.9	31.8	19.9	21.9	17.0	18.8	18.3	24.5
Madigan AMC-Ft. Lewis	19.8	30.6	14.4	24.6	13.7	26.6	15.8	26.8
Martin ACH-Ft. Benning	14.5	24.9	16.3	26.3	6.5	12.6	12.4	21.6
McDonald AHC-Ft. Eustis	13.8	15.6	16.1	19.2	18.7	26.2	16.2	20.3
Menwith Hill Medical Center	22.2	21.1	7.7	8.0	33.3	32.6	18.9	18.5
Missing data	•				15.6	25.9		
Moncrief ACH-Ft. Jackson	19.4	40.8	14.6	37.0	15.4	39.5	16.5	39.0
Munson AHC-Ft. Leavenworth	19.5	22.8	19.0	20.5	18.9	20.4	19.1	21.2
NBHC Little Creek	21.3	25.9	15.4	17.6	18.2	21.3	18.3	21.6
NBHC Mayport	15.9	20.0	17.9	22.0	19.7	21.5	17.8	21.2

TABLE D.6 (continued)

	Q1 20	13	Q2	2013	Q3 2	2013	COMBINED	
	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w
NBHC NAS North Island	19.2	17.1	18.1	33.2	17.8	19.1	18.4	23.3
NBHC NTC San Diego	22.1	47.0	17.1	33.2	15.5	12.1	18.3	32.1
NBHC Navsta Sewells	22.0	20.7	17.9	17.9	18.9	17.9	19.6	18.8
NBHC Oceana	12.1	13.0	13.8	15.7	19.2	21.3	15.1	16.7
NBHC Port Hueneme	19.8	23.4	21.5	22.1	19.7	20.8	20.3	22.1
NBHC Portsmouth	20.4	25.4	24.4	26.5	17.8	22.2	20.8	24.7
NH Beaufort	12.1	13.3	7.7	14.7	8.8	27.9	9.5	19.5
NH Bremerton	19.9	32.5	21.8	33.3	16.4	24.9	19.4	30.4
NH Camp Lejeune	13.2	19.9	11.5	18.6	13.3	15.2	12.7	17.9
NH Camp Pendleton	14.9	26.8	12.5	18.3	10.9	25.0	12.8	23.5
NH Guam-Agana	14.6	15.1	13.0	14.5	11.6	12.4	13.0	14.0
NH Guantanamo Bay	12.7	12.3	8.6	8.2	7.0	8.3	9.2	9.4
NH Jacksonville	18.8	31.1	17.3	36.1	16.5	30.9	17.5	32.7
NH LeMoore	15.8	25.9	13.4	32.1	13.0	25.5	14.1	28.2
NH Naples	14.2	13.8	12.4	10.4	8.6	8.3	11.7	10.8
NH Oak Harbor	19.2	28.7	14.0	15.7	15.6	20.8	16.2	22.0
NH Okinawa	10.7	9.3	11.3	12.4	10.1	10.5	10.7	10.7
NH Pensacola	18.6	30.7	15.9	37.9	15.5	27.9	16.7	32.6
NH Twentynine Palms	8.0	21.9	12.6	20.1	10.5	16.8	10.3	19.7
NH Yokosuka	12.4	12.2	9.4	10.2	9.4	10.3	10.4	10.9
NHC Cherry Point	16.3	22.5	16.2	18.3	13.8	15.4	15.4	18.5
NHC Corpus Christi	19.8	23.1	13.0	18.1	12.1	16.0	15.0	19.1
NHC Hawaii	18.2	17.8	17.3	16.3	13.3	13.4	16.2	15.8
NHC Patuxent River	23.4	26.2	19.3	20.5	23.6	25.7	22.1	24.2
NHC Quantico	18.1	18.8	18.1	18.4	18.2	18.8	18.1	18.7
NMC Portsmouth	18.5	28.2	15.6	23.4	16.2	25.0	16.7	25.5
NMC San Diego	13.3	20.6	15.8	22.8	11.4	20.8	13.5	21.4
Naval Health Care New England	16.4	18.3	16.9	17.4	16.9	19.1	16.7	18.3
Naval Health Clinic Charleston	15.3	18.3	11.2	12.1	13.0	15.0	13.1	15.2
Out of Catchment North Region	23.0	46.3	21.3	43.2	20.3	41.5	21.5	43.6
Out of Catchment OCONUS Region	17.9	25.4	15.5	24.4	14.0	25.2	15.8	25.0
Out of Catchment South Region	22.6	48.5	19.6	43.0	19.1	40.0	20.4	43.9
Out of Catchment West Region	26.0	49.2	23.1	46.8	21.1	40.7	23.4	45.6
R W Bliss AHC-Ft. Huachuca	16.6	22.9	12.6	15.4	16.7	18.9	15.3	19.1
RAF Upwood	20.7	22.1	16.7	20.8	13.9	14.6	16.8	19.2
Reynolds ACH-Ft. Sill	14.9	24.3	14.9	23.0	15.5	15.7	15.1	21.3

TABLE D.6 (continued)

	Q1 20	13	Q2 :	2013	Q3 2	2013	COME	BINED
	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w
TRICARE Outpatient-Chula Vista	25.3	24.6	22.4	25.7	18.4	21.7	22.0	23.9
Tripler AMC-Ft. Shafter	17.9	26.7	12.7	22.1	13.1	25.9	14.6	24.9
USCG Clinic Detroit	14.3	14.3	20.0	20.0	20.0	21.4	17.6	17.9
USCG Clinic Key West	25.0	25.0			22.2	21.7	17.6	16.9
Vicenza Medical Services Cntr	28.6	33.2	7.1	8.6	6.7	7.0	14.1	15.4
Walter Reed AMC-Washington DC	26.3	27.2	47.6	46.8	32.0	32.0	35.4	35.3
Walter Reed Natl Mil Med Cntr	21.4	34.9	22.1	30.0	20.3	33.9	21.3	32.9
Weed ACH-Ft. Irwin	11.7	24.4	12.8	27.5	11.5	10.2	12.0	21.5
William Beaumont AMC-Ft. Bliss	15.5	24.9	11.7	23.8	11.6	19.2	12.9	22.8
Winn ACH-Ft. Stewart	9.5	15.9	11.7	18.0	10.5	19.5	10.5	17.6
RR=Unweighted								
RR _w =Weighted								

TABLE D.7
RESPONSE RATES BY SERVICE AFFILIATION

	Q1 2	2013	Q2 2	2013	Q3 2	2013	COMBINED		
	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w	
Administrative	37.5	76.9	28.6	5.6	25.0	74.7	30.4	40.9	
Air Force	21.2	32.9	18.3	27.3	17.1	28.0	18.8	29.4	
Army	15.1	24.6	13.0	22.8	13.1	21.6	13.7	23.0	
Coast Guard	24.0	26.7	21.5	22.9	25.1	25.8	23.5	25.1	
Missing/unknown	32.9	46.9	25.8	23.8	16.8	30.7	18.7	35.9	
Navy	16.0	24.4	14.3	23.7	14.1	22.9	14.8	23.6	
Noncatchment	23.4	51.5	20.8	47.7	20.0	45.0	21.5	48.1	
Support Contractor	22.0	38.2	20.1	34.4	17.8	30.9	20.0	34.5	
USTF	36.0	51.0	37.1	52.0	29.0	42.0	34.0	48.4	

TABLE D.8

RESPONSE RATES BY BRANCH OF SERVICE

	Q1 2	2013	Q2 2	2013	Q3 2	2013	COMBINED		
	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w	
Air Force	23.0	43.0	20.7	40.2	19.0	35.5	20.9	39.6	
Army	16.9	32.7	14.5	29.3	14.2	28.0	15.2	30.0	
Coast Guard	24.5	39.7	20.6	29.6	22.6	30.9	22.6	33.6	
Marine Corps	12.5	23.2	11.5	21.9	12.3	23.9	12.1	23.0	
Navy	20.2	37.1	17.9	33.5	16.3	32.9	18.1	34.5	
Other/Unknown	27.4	32.1	29.5	33.0	28.6	40.8	28.5	35.2	

RR=Unweighted RR_W=Weighted

TABLE D.9

RESPONSE RATES BY TRICARE NEXT GENERATION OF CONTRACTS REGION GROUPING

	Q1 2	2013	Q2 2	2013	Q3 2	2013	COMBINED		
	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w	
North	20.7	36.6	21.6	37.7	21.0	36.5	20.8	36.6	
Overseas	14.3	18.0	15.7	18.8	16.1	21.4	14.9	18.6	
South	20.8	37.5	22.1	42.0	22.0	41.0	21.4	39.7	
West	21.0	35.1	22.3	38.9	21.3	36.8	21.1	36.8	

TABLE D.10
RESPONSE RATES BY COMBINED GEOGRAPHIC AREA

		Q1 :	2013	Q2 2	2013	Q3 :	2013	COMBINED	
TNEX Reg	Catchment	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w
North	375th Med Grp-Scott	27.8	32.3	17.0	17.2	22.1	25.8	22.3	25.2
North	633rd Med Grp Langley-Eustis	22.4	33.8	19.0	29.2	13.5	22.1	18.3	28.3
North	779th Med Grp-Andrews	20.9	23.6	17.2	20.5	17.4	19.1	18.5	21.0
North	88th Med Grp-Wright-Patterson	24.4	34.2	21.2	32.0	22.7	37.2	22.8	34.5
North	Blanchfield ACH-Ft. Campbell	12.5	19.1	12.0	17.3	13.7	16.2	12.7	17.4
North	FHCC-Formerly NHC Great Lakes	14.0	18.5	13.4	31.2	10.2	22.3	12.6	24.7
North	Ft Belvoir Community Hosp-FBCH	24.2	36.3	26.1	38.2	18.7	30.6	22.9	35.0
North	Guthrie AHC-Ft. Drum	12.0	9.8	6.1	4.7	6.5	5.9	8.2	6.9
North	Ireland ACH-Ft. Knox	17.3	36.4	13.3	24.8	14.1	26.9	14.9	29.7
North	Keller ACH-West Point	14.3	18.5	9.2	9.1	12.3	33.6	11.9	21.4
North	Kenner AHC-Ft. Lee	17.7	30.1	16.3	22.7	13.7	13.6	15.9	22.4
North	Kimbrough Amb Car Cen-Ft Meade	18.0	27.5	16.0	21.4	16.0	25.8	16.7	25.0
North	McDonald AHC-Ft. Eustis	13.8	15.6	16.1	19.2	18.7	26.2	16.2	20.3
North	Missing data					20.8	37.5		-
North	NBHC Little Creek	21.3	25.9	15.4	17.6	18.2	21.3	18.3	21.6
North	NBHC Navsta Sewells	22.0	20.7	17.9	17.9	18.9	17.9	19.6	18.8
North	NBHC Oceana	12.1	13.0	13.8	15.7	19.2	21.3	15.1	16.7
North	NBHC Portsmouth	20.4	25.4	24.4	26.5	17.8	22.2	20.8	24.7
North	NH Camp Lejeune	13.2	19.9	11.5	18.6	13.3	15.2	12.7	17.9
North	NHC Cherry Point	16.3	22.5	16.2	18.3	13.8	15.4	15.4	18.5
North	NHC Patuxent River	23.4	26.2	19.3	20.5	23.6	25.7	22.1	24.2
North	NHC Quantico	18.1	18.8	18.1	18.4	18.2	18.8	18.1	18.7
North	NMC Portsmouth	18.5	28.2	15.6	23.4	16.2	25.0	16.7	25.5
North	Naval Health Care New England	16.4	18.3	16.9	17.4	16.9	19.1	16.7	18.3
North	Out of Catchment North Region	23.0	46.3	21.3	43.2	20.3	41.5	21.5	43.6
North	Out of Catchment OCONUS Region	22.2	38.5	13.6	29.1	16.0	41.0	16.7	35.3
North	USCG Clinic Detroit	14.3	14.3	20.0	20.0	20.0	21.4	17.6	17.9
North	USCG Clinic Key West								
North	Walter Reed AMC-Washington DC	26.3	27.2	47.6	46.8	32.0	32.0	35.4	35.3
North	Walter Reed Natl Mil Med Cntr	21.4	34.9	22.1	30.0	20.3	33.9	21.3	32.9
North	Womack AMC-Ft. Bragg	13.4	17.2	13.1	20.2	12.0	13.9	12.8	17.3
Overseas	18th Med Grp-Kadena AB	20.1	20.6	11.2	11.5	16.7	17.2	16.0	16.4
Overseas	374th Med Grp-Yokota AB	15.5	14.4	16.5	16.3	14.9	15.6	15.7	15.4
Overseas	422 ABS Med Flt-Croughton	22.2	23.7	18.2	16.1	30.0	27.4	24.5	23.4
Overseas	470 Med Flt-Geilenkirchen	27.8	30.9	26.9	25.3	18.5	25.6	24.7	27.8

TABLE D.10 (continued)

TABLE D.10 (C	опшива)	Q1	2013	Q2 2	2013	Q3 2013		COMBINED	
TNEX Reg	Catchment	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w
Overseas	48th Med Grp-Lakenheath	17.7	18.4	15.3	13.4	16.7	17.6	16.6	16.3
Overseas	52nd Med Group-Spangdahlem	20.5	21.9	17.9	19.2	14.7	15.9	17.7	19.0
Overseas	Bavaria Meddac	11.9	10.8	9.7	9.1	8.5	8.4	10.0	9.4
Overseas	Brian Allgood ACH-Seoul	14.2	13.4	9.2	7.7	8.2	8.0	10.5	9.7
Overseas	Heidelberg Meddac	17.2	28.8					17.2	28.8
Overseas	Landstuhl Regional Medcen	15.3	17.3	14.5	15.6	9.6	12.0	13.1	14.8
Overseas	Menwith Hill Medical Center	18.8	18.4	7.7	8.0	33.3	32.6	17.1	17.0
Overseas	NH Guam-Agana	14.6	15.1	13.0	14.5	11.6	12.4	13.0	14.0
Overseas	NH Guantanamo Bay	12.7	12.3	8.6	8.2	7.0	8.3	9.2	9.4
Overseas	NH Naples	14.2	13.8	12.4	10.4	8.6	8.3	11.7	10.8
Overseas	NH Okinawa	10.7	9.3	11.3	12.4	10.1	10.5	10.7	10.7
Overseas	NH Yokosuka	12.4	12.2	9.4	10.2	9.4	10.3	10.4	10.9
Overseas	Out of Catchment OCONUS Region	17.9	20.5	15.5	14.7	13.8	19.9	15.8	18.5
Overseas	RAF Upwood	20.7	22.1	16.7	20.8	13.9	14.6	16.8	19.2
Overseas	Vicenza Medical Services Cntr	28.6	33.2	7.1	8.6	6.7	7.0	14.1	15.4
South	20th Med Grp-Shaw	19.7	22.0	13.8	14.4	16.5	17.5	16.6	18.0
South	2nd Med Grp-Barksdale	16.4	19.8	20.0	21.1	19.1	20.2	18.5	20.4
South	325th Med Grp-Tyndall	20.6	24.2	18.5	20.1	17.7	18.6	18.9	21.0
South	359th Med Grp-Randolph	29.4	34.4	17.0	18.7	21.2	32.6	22.5	28.8
South	42nd Medical Group-Maxwell	26.2	31.3	21.7	23.3	19.2	21.4	22.4	25.3
South	45th Med Grp-Patrick	27.1	43.8	24.5	33.3	21.4	27.2	24.3	35.3
South	59th Med Wing-Lackland	18.9	34.7	15.6	16.7	16.6	23.7	17.0	25.5
South	6th Med Grp-MacDill	26.5	33.9	22.3	35.3	16.6	26.6	21.8	31.5
South	72nd Med Grp-Tinker	18.5	20.2	16.7	18.7	14.5	15.5	16.5	18.1
South	78th Med Grp-Robins	25.4	29.6	16.9	20.3	16.8	18.2	19.7	22.6
South	7th Med Grp-Dyess	16.1	19.1	17.8	19.9	14.6	17.0	16.1	18.7
South	81st Med Grp-Keesler	21.6	43.4	18.0	27.9	16.0	30.3	18.6	34.0
South	82nd Med Grp-Sheppard	24.9	29.9	29.0	40.1	19.1	21.7	24.3	32.1
South	96th Med Grp-Eglin	18.9	40.7	20.1	32.5	18.0	34.3	19.0	36.2
South	Bayne-Jones ACH-Ft. Polk	14.8	17.8	10.8	22.7	11.5	12.1	12.3	18.1
South	Brooke AMC-Ft. Sam Houston	16.6	37.2	19.3	41.6	17.0	33.0	17.6	37.0
South	Darnall ACH-Ft. Hood	14.0	24.5	8.8	17.2	11.2	19.5	11.4	20.5
South	Eisenhower AMC-Ft. Gordon	15.2	29.1	14.0	24.6	13.4	21.7	14.2	25.0
South	Fox AHC-Redstone Arsenal	24.5	30.2	19.0	23.0	22.0	25.9	21.9	26.3
South	Lyster AHC-Ft. Rucker	17.9	31.8	19.9	21.9	17.0	18.8	18.3	24.5
South	Martin ACH-Ft. Benning	14.5	24.9	16.3	26.3	6.5	12.6	12.4	21.6
South	Missing data	•		•		12.9	15.0		

TABLE D.10 (continued)

TABLE D.10 (C	onuncea)	Q1	2013	Q2 2	2013	Q3 2	2013	COMBINED	
TNEX Reg	Catchment	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w
South	Moncrief ACH-Ft. Jackson	19.4	40.8	14.6	37.0	15.4	39.5	16.5	39.0
South	NBHC Mayport	15.9	20.0	17.9	22.0	19.7	21.5	17.8	21.2
South	NH Beaufort	12.1	13.3	7.7	14.7	8.8	27.9	9.5	19.5
South	NH Jacksonville	18.8	31.1	17.3	36.1	16.5	30.9	17.5	32.7
South	NH Pensacola	18.6	30.7	15.9	37.9	15.5	27.9	16.7	32.6
South	NHC Corpus Christi	19.8	23.1	13.0	18.1	12.1	16.0	15.0	19.1
South	Naval Health Clinic Charleston	15.3	18.3	11.2	12.1	13.0	15.0	13.1	15.2
South	Out of Catchment OCONUS Region	18.9	30.6	14.5	40.1	19.6	28.3	17.7	32.6
South	Out of Catchment South Region	22.6	48.5	19.6	43.0	19.1	40.0	20.4	43.9
South	Reynolds ACH-Ft. Sill	14.9	24.3	14.9	23.0	15.5	15.7	15.1	21.3
South	USCG Clinic Key West	25.0	25.0			23.5	23.5	19.4	19.3
South	Winn ACH-Ft. Stewart	9.5	15.9	11.7	18.0	10.5	19.5	10.5	17.6
West	10th Med Group-USAF Academy CO	20.4	28.6	18.4	25.6	15.8	17.9	18.2	23.9
West	21st Med Grp-Peterson	20.0	24.5	19.4	22.7	13.7	15.4	17.6	20.8
West	355th Med Grp-Davis Monthan	22.0	25.6	18.8	20.0	14.1	16.6	18.3	20.7
West	366th Med Grp-Mountain Home	20.6	26.0	19.8	18.3	21.0	36.1	20.4	26.4
West	377th Med Grp-Kirtland	22.3	21.9	19.1	20.7	16.3	19.3	19.3	20.7
West	3rd Med Grp-Elmendorf	24.0	34.4	16.9	24.2	16.1	36.1	18.9	31.6
West	55th Med Grp-Offutt	25.0	32.2	20.1	24.5	19.5	26.3	21.5	27.6
West	56th Med Grp-Luke	24.3	30.4	20.5	33.0	15.0	30.1	19.9	31.1
West	60th Med Grp-Travis	21.9	34.2	17.3	29.6	23.7	38.8	21.0	34.3
West	75th Med Grp-Hill	19.4	22.5	18.6	21.8	16.9	19.5	18.3	21.3
West	90th Med Grp-F.E. Warren	23.2	28.7	19.8	21.0	16.4	16.9	19.7	22.0
West	92nd Med Grp-Fairchild	14.9	19.9	18.9	22.7	21.4	25.9	18.5	22.8
West	95th Med Grp-Edwards	20.7	22.4	16.3	17.5	17.2	18.1	18.1	19.3
West	99th Med Grp-O'Callaghan Hosp	29.3	44.3	18.2	31.6	19.2	31.7	22.1	36.0
West	Bassett ACH-Ft. Wainwright	11.0	11.1	10.2	12.7	11.8	11.9	10.9	11.9
West	Evans ACH-Ft. Carson	12.8	22.7	11.1	19.7	13.9	26.8	12.5	23.2
West	Irwin ACH-Ft. Riley	11.4	20.7	8.5	18.8	10.8	18.7	10.2	19.4
West	L. Wood ACH-Ft. Leonard Wood	12.9	18.8	12.0	15.9	14.1	23.6	13.0	19.6
West	Madigan AMC-Ft. Lewis	19.8	30.6	14.4	24.6	13.7	26.6	15.8	26.8
West	Missing data					11.1	10.9	•	•
West	Munson AHC-Ft. Leavenworth	19.5	22.8	19.0	20.5	18.9	20.4	19.1	21.2
West	NBHC NAS North Island	19.2	17.1	18.1	33.2	17.8	19.1	18.4	23.3
West	NBHC NTC San Diego	22.1	47.0	17.1	33.2	15.5	12.1	18.3	32.1
West	NBHC Port Hueneme	19.8	23.4	21.5	22.1	19.7	20.8	20.3	22.1
West	NH Bremerton	19.9	32.5	21.8	33.3	16.4	24.9	19.4	30.4

TABLE D.10 (continued)

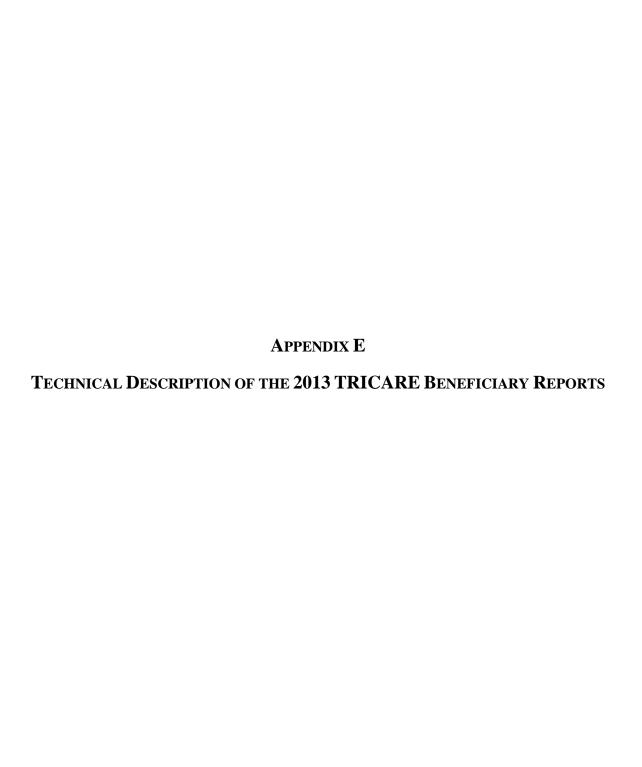
		Q1 2013		Q2 2013		Q3 2013		COM	IBINED
TNEX Reg	Catchment	RR	RR_w	RR	RR_w	RR	RR_w	RR	RR_w
West	NH Camp Pendleton	14.9	26.8	12.5	18.3	10.9	25.0	12.8	23.5
West	NH LeMoore	15.8	25.9	13.4	32.1	13.0	25.5	14.1	28.2
West	NH Oak Harbor	19.2	28.7	14.0	15.7	15.6	20.8	16.2	22.0
West	NH Twentynine Palms	8.0	21.9	12.6	20.1	10.5	16.8	10.3	19.7
West	NHC Hawaii	18.2	17.8	17.3	16.3	13.3	13.4	16.2	15.8
West	NMC San Diego	13.3	20.6	15.8	22.8	11.4	20.8	13.5	21.4
West	Out of Catchment OCONUS Region	14.1	30.8	16.7	36.4	16.7	29.1	15.8	32.2
West	Out of Catchment West Region	26.0	49.2	23.1	46.8	21.1	40.7	23.4	45.6
West	R W Bliss AHC-Ft. Huachuca	16.6	22.9	12.6	15.4	16.7	18.9	15.3	19.1
West	TRICARE Outpatient-Chula Vista	25.3	24.6	22.4	25.7	18.4	21.7	22.0	23.9
West	Tripler AMC-Ft. Shafter	17.9	26.7	12.7	22.1	13.1	25.9	14.6	24.9
West	Weed ACH-Ft. Irwin	11.7	24.4	12.8	27.5	11.5	10.2	12.0	21.5
West	William Beaumont AMC-Ft. Bliss	15.5	24.9	11.7	23.8	11.6	19.2	12.9	22.8

TABLE D.11 RESPONSE RATES BY BENEFICIARY CATEGORY AND SEX

		Q1 2013		Q2 2013		Q3 2013		COMBINED	
Beneficiary Category	Sex	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W
Active Duty and Guard/Reserve	Female	16.3	14.5	15.7	12.7	15.8	14.7	15.9	14.0
Active Duty and Guard/Reserve	Male	13.5	11.5	12.0	10.1	12.8	10.9	12.8	10.8
Dependent of Active Duty & Guard/Reserve	Female	13.5	14.1	12.1	12.6	10.9	11.3	12.2	12.7
Dependent of Active Duty & Guard/Reserve	Male	7.7	9.0	7.2	8.6	5.1	5.4	6.7	7.7
Retiree/Depend of Retir/Surviv/Other 65+	Female	61.4	61.3	59.0	58.9	57.5	57.5	59.2	59.2
Retiree/Depend of Retir/Surviv/Other 65+	Male	73.1	73.3	66.5	66.5	63.1	62.7	67.7	67.6
Retiree/Depend of Retir/Surviv/Other <65	Female	33.6	37.0	28.8	32.3	25.9	28.9	29.5	32.7
Retiree/Depend of Retir/Surviv/Other <65	Male	37.0	38.3	31.4	33.6	28.2	30.0	32.2	34.0

TABLE D.12
RESPONSE RATES BY BENEFICIARY CATEGORY AND SERVICE

		Q1 2013		Q2 2013		Q3 2013		COMBINED	
Beneficiary Category	Service	RR	RR_W	RR	RR_W	RR	RR_W	RR	RR_W
Active Duty and Guard/Reserve	Air Force	20.3	20.8	18.1	17.2	17.8	17.5	18.7	18.5
	Army	8.9	8.1	7.9	7.0	9.6	8.9	8.8	8.0
	Coast Guard	23.4	23.3	21.2	20.0	26.1	25.0	23.5	22.7
	Marine Corps	6.1	6.0	6.2	5.7	8.0	7.9	6.7	6.5
	Navy	13.5	11.9	12.6	12.3	11.9	10.4	12.7	11.5
	Other/Unknown	34.9	30.7	26.8	25.2	32.6	30.3	31.5	28.9
Dependent of Active Duty & Guard/Reserve	Air Force	14.2	14.4	13.2	14.4	11.3	12.1	12.9	13.7
	Army	11.7	13.2	9.6	10.4	9.3	10.2	10.2	11.3
	Coast Guard	16.9	20.4	15.2	16.9	12.0	13.0	14.8	16.9
	Marine Corps	10.2	9.7	10.2	10.7	9.4	10.4	9.9	10.2
	Navy	13.5	13.8	12.3	13.0	10.5	9.7	12.1	12.2
	Other/Unknown	20.5	21.7	29.5	31.9	23.8	23.3	24.6	25.8
Retiree/Depend of Retir/Surviv/Other 65+	Air Force	69.6	69.6	66.9	66.7	59.3	59.3	65.3	65.2
	Army	64.9	65.1	60.5	60.3	58.3	58.3	61.2	61.3
	Coast Guard	73.9	73.6	61.5	59.3	47.4	46.5	61.8	60.7
	Marine Corps	65.9	65.5	59.6	59.8	62.1	62.2	62.3	62.3
	Navy	67.0	66.9	60.0	60.1	63.9	63.3	63.7	63.4
	Other/Unknown	40.0	40.8	50.0	50.0	80.0	79.9	58.3	58.2
Retiree/Depend of Retir/Surviv/Other <65	Air Force	35.9	39.4	31.2	34.6	27.6	30.2	31.6	34.8
	Army	35.1	37.8	29.9	32.9	26.5	28.6	30.5	33.1
	Coast Guard	42.5	40.0	28.9	32.1	33.7	34.8	34.8	35.6
	Marine Corps	33.8	34.4	26.7	28.1	26.5	26.1	28.9	29.4
	Navy	34.6	36.1	29.7	32.1	26.6	30.0	30.3	32.8
	Other/Unknown	28.6	31.8	32.7	33.3	26.4	30.8	29.3	32.1



PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

The beneficiary reports present 12 scores for each region and catchment area in the MHS and for the MHS overall. Scores will enable users to compare providers to national benchmarks in these areas: getting needed care; getting care quickly; how well doctors communicate; customer service; courteous and helpful office staff; claims processing; rating of the health plan, health care, personal doctor, and specialist; preventive care standards; and health behavior. These scores are made up of three different types, described in Table E.1: CAHPS composites, ratings, and TMA standard composites. A trend page compares composites and ratings with values from previous quarters, calculates a quarterly trend, and tests the trend for statistical significance in the quarterly version of the beneficiary reports. In the annual version, results from 3 years are presented.

TABLE E.1

CONTENT OF THE 2013 TRICARE BENEFICIARY REPORTS

CAHPS COMPOSITES

The CAHPS composites group together survey responses to a set of related HCSDB questions taken from CAHPS. Scores expressed as CAHPS composites profile TRICARE beneficiaries' satisfaction with their ability to get needed care, the speed with which they receive care, interactions with their doctor, their experience with customer service representatives, and their experience with claims processing. Scores are presented in relation to national benchmarks.

SATISFACTION RATINGS

Scores expressed as ratings reflect beneficiaries' self-rated satisfaction with their health plan, health care, and personal providers. The scores, adjusted for patient age and health status, are presented relative to national benchmarks.

TMA STANDARD COMPOSITES

Two TMA standard composite scores are reported. One score is based on how the preventive care that beneficiaries received compares with Healthy People 2020 standards. Preventive care indicators to be combined are prenatal care, hypertension screening, mammography, and Pap smears. Another composite combines a non-smoking rate, the rate at which smokers are counseled to guit, and rate of non-obese BMI ratio.

Table E.2 lists the questions and response choices for the CAHPS 4.0 composites in the beneficiary reports. Question numbers refer to the CAHPS 4.0 Adult Questionnaire (Commercial). Response choices for each question within a composite are collapsed into three-item scales so that all composites have the same range. Along with the composites, mean responses to each question are presented and compared to national civilian benchmarks.

Four scores are based on respondents' ratings of health care and health care providers: health plan, health care, personal doctor, and specialist. These ratings are measures of overall beneficiary satisfaction. Questions about these aspects of care request beneficiaries to rate their health plan, health care, and physicians on a scale of 0 to 10, with 0 being the worst and 10 being the best. The rating score will be the mean. For the purpose of presentation, the means are multiplied by 100 so that the scores are presented on a scale of 0 to 100.

TABLE E.2 CAHPS 4.0 QUESTIONS AND RESPONSE CHOICES

EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT QUESTIONNAIRE CAHPS 4.0	GETTING NEEDED CARE	RESPONSE CHOICE
Q17	In the last 12 months, how often was it easy to get appointments with specialists?	Never Sometimes Usually Always
Q21	In the last 12 months, how often was it easy to get the care, tests, or treatment you thought you needed through your health plan?	Never Sometimes Usually Always
	GETTING CARE QUICKLY	
Q6	In the last 12 months, not counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?	Never Sometimes Usually Always
Q4	In the last 12 months, when you needed care right away, how often did you get care as soon as you thought you needed?	Never Sometimes Usually Always
	How Well Doctors Communicate	
Q12	In the last 12 months, how often did your personal doctor listen carefully to you?	Never Sometimes Usually Always
Q11	In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?	Never Sometimes Usually Always
Q13	In the last 12 months, how often did your personal doctor show respect for what you had to say?	Never Sometimes Usually Always
Q14	In the last 12 months, how often did your personal doctor spend enough time with you?	Never Sometimes Usually Always

CUSTOMER SERVICE	RESPONSE CHOICE
In the last 12 months, how often did your health plan's customer service give you the information or help you needed?	Never Sometimes Usually Always
In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?	Never Sometimes Usually Always
CLAIMS PROCESSING	
In the last 12 months, how often did your health plan handle your claims quickly?	Never Sometimes Usually Always
In the last 12 months, how often did your health plan handle your claims correctly?	Never Sometimes Usually Always
RATING OF ALL HEALTH CARE	
Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?	0 Worst health care possible 1 2 3 4 5 6 7 8 9 10 Best health care possible
	In the last 12 months, how often did your health plan's customer service give you the information or help you needed? In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect? CLAIMS PROCESSING In the last 12 months, how often did your health plan handle your claims quickly? In the last 12 months, how often did your health plan handle your claims correctly? RATING OF ALL HEALTH CARE Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number

ADULT QUESTIONNAIRE CAHPS 4.0	RATING OF HEALTH PLAN	RESPONSE CHOICE
Q27	Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?	0 Worst health plan possible 1 2 3 4 5 6 7 8 9 10 Best health plan possible
	RATING OF PERSONAL DOCTOR	
Q15	Using any number from 0 to 10, where 0 is the worst personal doctor or nurse possible and 10 is the best personal doctor or nurse possible, what number would you use to rate your personal doctor or nurse?	0 Worst personal doctor or nurse possible 1 2 3 4 5 6 7 8 9 10 Best personal doctor or nurse possible
	RATING OF SPECIALIST	
Q19	We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?	0 Worst specialist possible 1 2 3 4 5 6 7 8 9 10 Best specialist possible

The preventive care composite in the beneficiary reports measures MHS performance in terms of meeting TMA's goals for the provision of preventive services. The composite is calculated by combining the responses to individual questions pertaining to these goals. Questions and responses from the present version of the 2013 HCSDB that are incorporated into the preventive care composite are presented in Table E.3. When individual scores in the preventive care composite are combined, the resulting composite is weighted by the number of questions to which a normal population has responded. Therefore, the weight a particular question receives in the composite score is based on the number of responses it "receives". The resulting proportion is presented as a percentage.

TABLE E.3

QUESTIONS AND RESPONSE CHOICES ON PREVENTIVE CARE EXPRESSED AS A STANDARD TMA COMPOSITE

2013 ADULT HCSDB	COMPOSITE PREVENTIVE CARE	RESPONSE CHOICES
H13049	When did you last have a blood pressure reading?	Less than 12 months ago 1 to 2 years ago More than 2 years ago
H13050	Do you know if your blood pressure is too high?	Yes, it is too high No, it is not too high Don't know
H13059B	When did you last have a Pap smear test?	Within the last 12 months 1 to 2 years ago More than 2 but less than 3 years ago More than 3 but less than 5 years ago 5 or more years ago Never had a Pap smear
H13061	When was the last time your breasts were checked by mammography?	Within the last 12 months 1 to 2 years ago More than 2 but less than 5 years ago 5 or more years ago Never had a mammogram
H13064	In which trimester did you first receive prenatal care?	First trimester Second trimester Third trimester Did not receive prenatal care
H13071F, H13071I	How tall are you without your shoes on? Please give your answer in feet and inches.	feet inches
H13072	How much do your weigh without your shoes on? Please give your answer in pounds.	pounds

The healthy behavior composite measures the success of TMA's efforts to reduce smoking and obesity rates. The composite consists of a non-smoking rate, which is the proportion of adults not smoking or who quit more than a year ago, the counseled to quit rate, which is the proportion of smokers with office visits who were counseled to quit during at least one visit, and the rate of adults with non-obese BMI ratio. The composite weights these three measures equally.

TABLE E.4.1

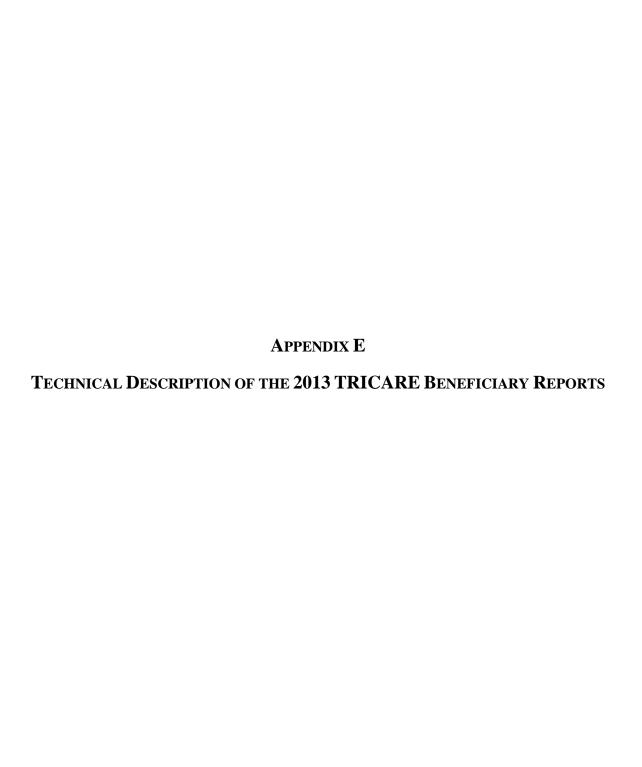
CAHPS 4.0 QUESTIONS AND RESPONSE CHOICES EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 4.0	SMOKING	RESPONSE CHOICE
H17	Do you now smoke cigarettes or use tobacco every day, some days or not at all?	Every day Some days Not at all
H18	In the last 12 months, how often were you advised to quit smoking or using tobacco by a doctor or other health provider in your plan?	Don't know Never Sometimes Usually Always

TABLE E.4.2

CAHPS 3.0 QUESTIONS AND RESPONSE CHOICES EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 3.0	SMOKING	RESPONSE CHOICE
H12	Have you ever smoked at least 100 cigarettes in your entire life?	Yes
		No
		Don't know



PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

The beneficiary reports present 11 scores for each region and catchment area in the MHS and for the MHS overall. Scores will enable users to compare providers to national benchmarks in these areas: getting needed care; getting care quickly; how well doctors communicate; customer service; claims processing; rating of the health plan, health care, personal doctor, and specialist; preventive care standards; and health behavior. These scores are made up of three different types, described in Table E.1: CAHPS composites, ratings, and TMA standard composites. A trend page compares composites and ratings with values from previous quarters, calculates a quarterly trend, and tests the trend for statistical significance in the quarterly version of the beneficiary reports. In the annual version, results from 3 years are presented.

TABLE E.1

CONTENT OF THE 2013 TRICARE BENEFICIARY REPORTS

CAHPS COMPOSITES

The CAHPS composites group together survey responses to a set of related HCSDB questions taken from CAHPS. Scores expressed as CAHPS composites profile TRICARE beneficiaries' satisfaction with their ability to get needed care, the speed with which they receive care, interactions with their doctor, their experience with customer service representatives, and their experience with claims processing. Scores are presented in relation to national benchmarks.

SATISFACTION RATINGS

Scores expressed as ratings reflect beneficiaries' self-rated satisfaction with their health plan, health care, and personal providers. The scores, adjusted for patient age and health status, are presented relative to national benchmarks.

TMA STANDARD COMPOSITES

Two TMA standard composite scores are reported. One score is based on how the preventive care that beneficiaries received compares with Healthy People 2013 standards. Preventive care indicators to be combined are prenatal care, hypertension screening, mammography, and Pap smears. Another composite combines a non-smoking rate, the rate at which smokers are counseled to guit, and rate of non-obese BMI ratio.

Table E.2 lists the questions and response choices for the CAHPS 4.0 composites in the beneficiary reports. Question numbers refer to the CAHPS 4.0 Adult Questionnaire (Commercial). Response choices for each question within a composite are collapsed into three-item scales so that all composites have the same range. Along with the composites, mean responses to each question are presented and compared to national civilian benchmarks.

Four scores are based on respondents' ratings of health care and health care providers: health plan, health care, personal doctor, and specialist. These ratings are measures of overall beneficiary satisfaction. Questions about these aspects of care request beneficiaries to rate their health plan, health care, and physicians on a scale of 0 to 10, with 0 being the worst and 10 being the best. The rating score will be the mean. For the purpose of presentation, the means are multiplied by 100 so that the scores are presented on a scale of 0 to 100.

TABLE E.2 CAHPS 4.0 QUESTIONS AND RESPONSE CHOICES

EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT QUESTIONNAIRE CAHPS 4.0	GETTING NEEDED CARE	RESPONSE CHOICE
Q17	In the last 12 months, how often was it easy to get appointments with specialists?	Never Sometimes Usually Always
Q21	In the last 12 months, how often was it easy to get the care, tests, or treatment you thought you needed through your health plan?	Never Sometimes Usually Always
	GETTING CARE QUICKLY	
Q6	In the last 12 months, not counting times you needed care right away, how often did you get an appointment for your health care at a doctor's office or clinic as soon as you thought you needed?	Never Sometimes Usually Always
Q4	In the last 12 months, when you needed care right away, how often did you get care as soon as you thought you needed?	Never Sometimes Usually Always
	How Well Doctors Communicate	
Q12	In the last 12 months, how often did your personal doctor listen carefully to you?	Never Sometimes Usually Always
Q11	In the last 12 months, how often did your personal doctor explain things in a way that was easy to understand?	Never Sometimes Usually Always
Q13	In the last 12 months, how often did your personal doctor show respect for what you had to say?	Never Sometimes Usually Always
Q14	In the last 12 months, how often did your personal doctor spend enough time with you?	Never Sometimes Usually Always

ADULT QUESTIONNAIRE CAHPS 4.0	CUSTOMER SERVICE	RESPONSE CHOICE
Q23	In the last 12 months, how often did your health plan's customer service give you the information or help you needed?	Never Sometimes Usually Always
Q24	In the last 12 months, how often did your health plan's customer service staff treat you with courtesy and respect?	Never Sometimes Usually Always
ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 4.0	CLAIMS PROCESSING	
H14	In the last 12 months, how often did your health plan handle your claims quickly?	Never Sometimes Usually Always
H15	In the last 12 months, how often did your health plan handle your claims correctly?	Never Sometimes Usually Always
	RATING OF ALL HEALTH CARE	
Q8	Using any number from 0 to 10, where 0 is the worst health care possible and 10 is the best health care possible, what number would you use to rate all your health care in the last 12 months?	0 Worst health care possible 1 2 3 4 5 6 7 8 9 10 Best health care possible

ADULT QUESTIONNAIRE CAHPS 4.0	RATING OF HEALTH PLAN	RESPONSE CHOICE
Q27	Using any number from 0 to 10, where 0 is the worst health plan possible and 10 is the best health plan possible, what number would you use to rate your health plan?	0 Worst health plan possible 1 2 3 4 5 6 7 8 9 10 Best health plan possible
	RATING OF PERSONAL DOCTOR	
Q15	Using any number from 0 to 10, where 0 is the worst personal doctor or nurse possible and 10 is the best personal doctor or nurse possible, what number would you use to rate your personal doctor or nurse?	0 Worst personal doctor or nurse possible 1 2 3 4 5 6 7 8 9 10 Best personal doctor or nurse possible
	RATING OF SPECIALIST	
Q19	We want to know your rating of the specialist you saw most often in the last 12 months. Using any number from 0 to 10, where 0 is the worst specialist possible and 10 is the best specialist possible, what number would you use to rate the specialist?	0 Worst specialist possible 1 2 3 4 5 6 7 8 9 10 Best specialist possible

The preventive care composite in the beneficiary reports measures MHS performance in terms of meeting TMA's goals for the provision of preventive services. The composite is calculated by combining the responses to individual questions pertaining to these goals. Questions and responses from the present version of the 2013 HCSDB that are incorporated into the preventive care composite are presented in Table E.3. When individual scores in the preventive care composite are combined, the resulting composite is weighted by the number of questions to which a normal population has responded. Therefore, the weight a particular question receives in the composite score is based on the number of responses it "receives". The resulting proportion is presented as a percentage.

TABLE E.3

QUESTIONS AND RESPONSE CHOICES ON PREVENTIVE CARE EXPRESSED AS A STANDARD TMA COMPOSITE

2013 ADULT HCSDB	COMPOSITE PREVENTIVE CARE	RESPONSE CHOICES	
H13049	When did you last have a blood pressure reading?	Less than 12 months ago 1 to 2 years ago More than 2 years ago	
H13050	Do you know if your blood pressure is too high?	Yes, it is too high No, it is not too high Don't know	
H13059B	When did you last have a Pap smear test?	Within the last 12 months 1 to 3 years ago More than 3 but less than 5 years ago 5 or more years ago Never had a Pap smear	
H13059B	When did you last have a Pap smear test?	Within the last 12 months 1 to 2 years ago More than 2 but less than 3 years ago More than 3 but less than 5 years ago 5 or more years ago Never had a Pap smear	
H13061	When was the last time your breasts were checked by mammography?	Within the last 12 months 1 to 2 years ago More than 2 but less than 5 years ago 5 or more years ago Never had a mammogram	
H13064	In which trimester did you first receive prenatal care?	First trimester Second trimester Third trimester Did not receive prenatal care	
H13071F, H13071I	How tall are you without your shoes on? Please give your answer in feet and inches.	feet inches	
H13072	How much do your weigh without your shoes on? Please give your answer in pounds.	pounds	

The healthy behavior composite measures the success of TMA's efforts to reduce smoking and obesity rates. The composite consists of a non-smoking rate, which is the proportion of adults not smoking or who quit more than a year ago, the counseled to quit rate, which is the proportion of smokers with office visits who were counseled to quit during at least one visit, and the rate of adults with non-obese BMI ratio. The composite weights these three measures equally.

TABLE E.4.1

CAHPS 4.0 QUESTIONS AND RESPONSE CHOICES EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 4.0	SMOKING	RESPONSE CHOICE
H17	Do you now smoke cigarettes or use tobacco every day, some days or not at all?	Every day Some days Not at all Don't know
H18	In the last 12 months, how often were you advised to quit smoking or using tobacco by a doctor or other health provider in your plan?	Never Sometimes Usually Always

TABLE E.4.2

CAHPS 3.0 QUESTIONS AND RESPONSE CHOICES EXPRESSED AS COMPOSITE SCORES AND RATINGS

ADULT SUPPLEMENTAL QUESTIONNAIRE CAHPS 3.0	SMOKING	RESPONSE CHOICE
H12	Have you ever smoked at least 100 cigarettes in your entire life?	Yes
		No
		Don't know

APPENDIX F SAS CODE FOR FILE DEVELOPMENT – QUARTERS I-III

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

F.1 Q3FY2013\PROGRAMS\WEIGHTING\MERGESYN.SAS - Combine Item Response Data from survey contractor with the MPR sampling and DEERS variables.

```
******************
* PROGRAM: Changed from MERGENRC.SAS to MERGESYN.SAS
          QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE:
          COMBINE ITEM RESPONSE DATA FROM SYNOVATE WITH THE MPR SAMPLING AND
          DEERS VARIABLES.
* WRITTEN: 01/31/2001 BY KEITH RATHBUN
* MODIFIED: 1) 03/13/2002 BY KEITH RATHBUN for 2002 survey: Added MPCSMPL,
            SERVAREA and DCATCH. Drop SUBDEMO.
          2) 03/11/2003 BY KEITH RATHBUN for 2003 survey: Removed the
             processing involving the FLAG_FIN file. NRC now sends
             all records regardless of FLAG_FIN.
          3) 09/28/2004 BY JACQUELINE AGUFA: Moved the code that contructs
             XREGION, XTNEXREG and CONUS to CONVARQ.SAS.
          4) 10/20/2004 BY KEITH RATHBUN: Recode unknown values of
            MRTLSTAT into one group.
          5) 06/22/2005 BY JACQUELINE AGUFA: Add ACV to mergenrc.sd2
          6) 06/12/2012 BY JACQUELINE AGUFA: Add code to modify the observations of the file
             This process will reincorporate the overlapped cases(currently missing in the
synovate file)
            back to the mergsyn file. The missing overlapped cases can be found in
bwt.sas7bdat or sampla02.sas7bdat
* INPUTS: 1) DODyyQnF.sas7bdat - Quarterly DOD Health Survey Data from Synovate
             where n = Quarter Number
                yy = Survey Administration Year
          2) BWT.sas7bdat - MPR Sampling and DEERS variables
          3) EXTRACT.sas7bdat - DEERS variables
* OUTPUTS: 1) MERGESYN.sas7bdat - Quarterly DOD Health Survey Data
            (Combined SYNOVATE, MPR, and DEERS variables)
***************************
                "K:\Q3FY2013"; /*Restricted folder*/
LIBNAME INr
LIBNAME IN
                 "..\..\DATA\afinal";
LIBNAME OUT
                 "..\..\DATA\afinal";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
********************
* Define fielding start date so AGE can be recalculated based on DOB.
* Also assign quarter and number of eligibility periods.
%LET FIELDATE = 04012013; * mmddyyyy;
%LET FIELDLBL = April 1st 2013;
%LET QUARTER = Q3FY2013;
          = 50; *Add 1 to number of Quarters processed each quarter;
%LET NUMPD
******************
* SORT the Synovate-Provided file and the original sample (BWT).
*************************
PROC SORT DATA=IN.dod13q3f OUT=SYNFILE;
    BY MPRID;
RUN;
DATA SYNFILE;
  LENGTH MPRID $8;
  SET SYNFILE;
RIIN;
PROC SORT DATA=IN.BWT OUT=BWT; BY MPRID; RUN;
********************
* Attach DEERS variables to the combined file that were omitted from the
```

^{*} BWT file. Using extract.sas7bdat to obtain this data since the overlap cases

^{*} are not in SAMPLA02.sas7bdat

```
PROC SORT DATA=INr.EXTRACT OUT=EXTRACT
       (KEEP=MPRID DAGEQY DBENCAT DCATCH DMEDELG DSPONSVC /*LEGDDSCD (JMA 09/18/2007)*/
           MBRRELCD
           MEDTYPE MRTLSTAT PATCAT PCM RACEETHN
           PNLCATCD PNBRTHDT PAYPLNCD /*E1-E&NUMPD*/ ACV);
  BY MPRID:
RIIN;
******************
* Attach the original sampling variables to the combined file.
**************************
DATA MERGESYN;
  MERGE BWT(in=b) SYNFILE(in=in2) EXTRACT(in=in1);
  /*FLAG_FIN = COMPRESS(FLAG_FIN); *Trim off the blanks; Apr 3 2007 */
  ***********************
  * DROP variables that are not needed.
  DROP SVCCD GEOSMPL GEOCELL /*EBG_COM*/ EBSMPL
      D_INSTAL /*GROUP_geosmpl*/;
  LABEL /*CACSMPL = 'CACSMPL - Catchment Area' */ /*Dec 15, 2006*/
              = 'BWT - Basic Sampling Weight'
       ENBGSMPL = 'ENBGSMPL - Beneficiary/Enrollment Status'
             = 'NHFF - Stratum Sample Size'
       SEXSMPL = 'SEXSMPL - Sex'
       STRATUM = 'Stratum'
       SVCSMPL = 'SVCSMPL - Branch of Service'
       FLAG_FIN = 'Final Disposition'
  IF IN2 AND NOT IN1 THEN
    PUT "ERROR: MPRID Not Found in both the SYNOVATE and MPR files, MPRID = " MPRID;
  IF IN2 AND IN1 THEN OUTPUT MERGESYN;
  *******************
  * JMA 06/12/2012
  * incorporate cases that were dropped from the file sent to synovate because
  * of the overlap with TSS.
      IF b AND NOT in 2 THEN DO;
    ***JMA 07/03/2012 assign a flag_fin value of 99-Overlap case. Survey was never mailed
    FLAG_FIN=99;
    output MERGESYN;
  END;
RUN;
DATA OUT . MERGESYN;
  SET MERGESYN(/*RENAME=(COMMENT_FLAG=CMNTFLAG)*/);
  * Construct MPCSMPL.
  ***********************
  IF PAYPLNCD = 'MO' THEN
    MPCSMPI_1 = 2;
  ELSE IF PAYPLNCD = 'MW' THEN
    MPCSMPL = 3;
  ELSE
    MPCSMPL = 1;
         *******************
  * Calculate FIELDAGE based on PNBRTHDT using fielding period
  * starting date.
  *******************
  FIELDATE = INPUT("&FIELDATE", mmddyy8.);
  DOB = SUBSTR(PNBRTHDT,5,2) | SUBSTR(PNBRTHDT,7,2) | SUBSTR(PNBRTHDT,1,4);
  BRTHDATE = INPUT(DOB, mmddyy8.);
  FIELDAGE = PUT(INT((FIELDATE - BRTHDATE)/365.25),Z3.);
```

```
LABEL MPCSMPL = "MPCSMPL - Military Personnel Category";
  LABEL FIELDAGE = "Age as of &FIELDLBL";
  LABEL DCATCH = "Catchment Area";
  LENGTH QUARTER $8;
  QUARTER = "&QUARTER";
  LABEL QUARTER = 'Survey Quarter';
  LENGTH ONTIME $3;
  ONTIME = "YES";
  LABEL ONTIME = "Responded Within 8 weeks of Mail-Out";
  ******************
   * Recode unknown values of MRTLSTAT into one 'Unknown' group (Z).
   \texttt{IF MRTLSTAT NOT IN ("A","D","I","L","M","N","S","W","Z"," ") THEN MRTLSTAT = "Z"; } \\
  DROP FIELDATE DOB BRTHDATE PNBRTHDT PAYPLNCD;
RUN;
TITLE1 "Quarterly DOD Health Survey - Combine SYNOVATE, MPR and DEERS variables (6663-0500)";
TITLE2 "Program Name: MERGESYN.SAS By Jacqueline Agufa";
TITLE3 "Program Inputs: DODyyQnF.sas7bdat, BWT.sas7bdat, EXTRACT.sas7bdat -- Program Output:
MERGESYN.sas7bdat";
PROC CONTENTS; RUN;
PROC FORMAT;
  Value $ACV
     'A'='Active Duty Prime'
     'B'='TRICARE Global Remote Overseas Prime Active Duty'
     'D'='TRICARE Senior Prime enrollee'
     'E'='Non-Active Duty Prime'
     'F'='TRICARE Global Remote Overseas Prime ADFM'
     'G'='TRICARE Plus (CHAMPUS/TFL Eligible)'
     'H'='TRICARE Overseas Prime AD'
     'J'='TRICARE Overseas Prime ADFM'
     'L'='TRICARE Plus (w/o civilian healthcare)'
     'M'='AD not reported as enrolled'
     'R'='TRICARE Reserve Select'
     'Q'='Active Duty enrolled to Op Forces'
     'U'='USFHP/USTF'
     'V'='TRICARE Retired Reserve'
 ' ','Z'='Not enrolled in TRICARE Prime or USFHP'
 VALUE $ENBGS
          '01' = "Active duty"
          '02' = "Active duty fam, Prime, civ PCM"
          '03' = "Active duty fam, Prime, mil PCM"
          '04' = "Active duty fam, non-enrollee"
          '05' = "Retired, <65, civ PCM"
          '06' = "Retired, <65, mil PCM"
          '07' = "Retired, <65, non-enrollee"
          '08' = "Retired,65+,civ PCM"
          '09' = "Retired,65+,mil PCM"
          '10' = "Retired,65+,non-enrollee"
          '11' = "TRICARE Reserve Select"
RUN;
PROC FREO DATA=OUT.MERGESYN(DROP=MPRID PRN MIOCNTL);
 TABLES WEB ONTIME FLAG_FIN DAGEQY*FIELDAGE ACV PCM ENBGSMPL
        ACV*PCM ACV*ENBGSMPL
         _ALL_ /MISSING LIST;
 FORMAT ACV $ACV. ENBGSMPL $ENBGS.;
RUN;
```

F.2.A Q1FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.SAS - Implement Coding Scheme and Coding Tables for Ouarter 1 FY2013.

```
*************************
  Program: Cschm13q.sas
  Written: 06/04/2001
   Author: C. Rankin
    Input: MERGESYN.sas7bdat - Merged MPR Sampling, DEERS, and Synovate Response Data
   Output: CSCHM11Q.sas7bdat - Coding scheme file
* Modified: 9/20/2001 - Recodes removed (stored in recodes_old.sas)
           10/31/2001 - Revised notes 16 and 17 (became notes 26 and 27)
            3/22/2002 - Updated Variable names for Q1 2002 and added
                        Include file RENAME.SAS to change the variable
                       names from 01 to 02. Skipping 01 designation to make
                       survey reflect year of fielding
            5/09/2002 - Change to logic in TFL supplement
            3/17/2003 - Updated Variables names for Q1 2003 4/11/2003 - Added note 19a to accomodate Q1 2003 error where
                        an option on most of the questionnaires was omitted for
                       H03062
            3/28/2008 - Updated Variable names for Q2 FY 2008
           12/14/2009 - Updated Variable names for Q1 FY 2010
           12/01/2010 - Updated Variable names for Q1 FY 2011
           12/09/2011 - Updated Variable names for Q1 FY 2012
           12/15/2012 - Updated Variable names for Q1 FY 2013
           12/15/2012 - Removed logic for handling check boxes for height and
                        weight variables. Also no longer have to convert the
                        weight variable from character to numeric
           12/21/2012 - Added code on line 146 to correct out of range height (in)
 Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
            Response Data, check for consistency in responses and skip
            patterns
  Include
    files: Cschm13q.fmt
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN "..\.\DATA\AFINAL";
             "..\..\DATA\AFINAL";
LIBNAME OUT
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM13q;
%LET PERIOD=October, 2011 to September, 2012;
/* Variable names in survey -- become recoded varibles */
%Let varlist1 =
H13001 H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
 H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
S13AA01 S13AA02A S13AA02B S13AA02C S13AA02D S13AA02E S13AA02F S13AA02G S13AA02H S13AA02I
 S13AA02J S13AA02K S13AA02L S13AA02V S13AA02M S13AA02N S13AA02O S13AA02P S13AA02Q S13AA02R
 S13AA02S S13AA02T S13AA02U S13AA02W S13AA03 S13AA04A S13AA04B S13AA04C S13AA04D S13AA04E S13AA05
H13005 H13006 H13007 H13008 H13009 H13010 H13011 H13012
H13013 H13014 H13015 H13016 H13017 H13018 H13019 H13020 H13021 H13022
H13023 H13024 H13025 H13026 H13027
S13009 S13010
H13028 H13029 H13030 H13031
 S13B01 S13B02 S13B03 S13B04
 H13032 H13033 H13034 H13035 H13036 H13037 H13038 H13039 H13040 H13041
H13042 H13043 H13044 H13045 H13046 H13047 H13048
H13049 H13050
 S13015
 H13051 H13052 H13053 H13054 H13055 H13056 H13057A H13057B
```

```
H13057C H13057D H13058
H13059B H13060 H13061 H13062 H13063 H13064
H13065 H13066 H13067 H13068 H13069 H13070
S13B23 S13B24 S13B25 S13B26
H13071F H13071I H13072
 SREDA H13073A H13073B H13073C H13073D H13073E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
H13074 H13075 H13076 H13077 H13078 H13079
S13011 S13014
S13N11 S13N12A S13N12B S13N12C S13N12D S13N12E S13N12F S13N12G S13N12H S13N12I
S13N12J S13N12K S13N12L S13N12M
/* _O variables are the original values from the survey response */
%Let varlist2 =
H13001 O H13002AO H13002CO H13002NO H13002OO H13002PO H13002OO H13002SO H13002TO H13002UO
H13002FO H13002GO H13002HO H13002IO H13002JO H13002KO H13002MO H13002RO H13002LO
H13003_O H13004_O
S13AA01_O S13AA02AO S13AA02BO S13AA02CO S13AA02DO S13AA02EO S13AA02FO S13AA02GO S13AA02HO
S13AA02IO S13AA02JO S13AA02KO S13AA02LO S13AA02VO S13AA02MO S13AA02NO S13AA02OO S13AA02PO
S13AA02QO S13AA02RO S13AA02SO S13AA02TO S13AA02UO S13AA02WO S13AA03_O S13AA04AO S13AA04BO
S13AA04CO S13AA04DO S13AA04EO S13AA05_O
H13005_O H13006_O H13007_O H13008_O H13009_O H13010_O H13011_O H13012_O
H13013_O H13014_O H13015_O H13016_O H13017_O H13018_O H13019_O H13020_O H13021_O H13022_O
H13023_O H13024_O H13025_O H13026_O H13027_O
S13009_O S13010_O
H13028_O H13029_O H13030_O H13031_O
S13B01_0 S13B02_0 S13B03_0 S13B04_0
H13032_O H13033_O H13034_O H13035_O H13036_O H13037_O H13038_O H13039_O H13040_O H13041_O
H13042_O H13043_O H13044_O H13045_O H13046_O H13047_O H13048_O
H13049_O H13050_O
S13015_0
H13051_O H13052_O H13053_O H13054_O H13055_O H13056_O H13057AO H13057BO
H13057CO H13057DO H13058_O
H13059BO H13060_O H13061_O H13062_O H13063_O H13064_O
H13065_O H13066_O H13067_O H13068_O H13069_O H13070_O
S13B23 O S13B24 O S13B25 O S13B26 O
H13071FO H13071IO H13072_O
SREDA_O H13073AO H13073BO H13073CO H13073DO H13073EO
SRRACEAO SRRACEBO SRRACECO SRRACEEO SRAGE_O
H13074_O H13075_O H13076_O H13077_O H13078_O H13079_O
S13011 O S13014 O
S13N11_O S13N12AO S13N12BO S13N12CO S13N12DO S13N12EO S13N12FO S13N12GO S13N12HO S13N12IO
S13N12JO S13N12KO S13N12LO S13N12MO
TITLE "DoD 2013 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";
DATA MERGESYN;
 SET IN.MERGESYN;
***********************
* Code added by Jacqueline Agufa 09/15/2004 to fix name of race variable;
 RENAME SRACEA = SRRACEA;
 RENAME SRACEB = SRRACEB;
 RENAME SRACEC = SRRACEC;
 RENAME SRACED = SRRACED;
 RENAME SRACEE = SRRACEE;
  *** Correct odd height and weights Per Eric Schone;
  IF H13071F NOT IN (-9,.) THEN DO;
   IF H13071F < 2 OR
      H13071F > 8
```

```
THEN H13071F= -7;
 END;
  ***Correct odd height in inches per Daisy's request;
  IF H13071I NOT IN (-9,.) THEN DO;
   IF H13071I > 11 then H13071I = -7;
  IF 0 \le H13072 \le 40 OR
   H13072 > 500
  THEN H13072 = -7;
RIIN;
DATA OUT.CSCHM13q;
  LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
 INFORMAT &VARLIST2. 4.;
  %INCLUDE "CSCHM13q.FMT";
/* label and format statements for original variables */
  SET MERGESYN;
**********************
**** Recodes for invalid responses:**************************;
*************************
/* This is a version of the coding scheme and coding tables for the
  FY 2013 HCSDB Form A.
  The following tables outline the coding of screening questions (skip),
  and subsequent items to be answered (or not answered in a series
  following a skip question.) */
/* First set up new variables that capture the original values */
/* recode the initial numeric values to the SAS numeric values */
/* specified in the coding scheme
 SEX=PNSEXCD;
 AGE=INPUT(DAGEQY,8.);
 ARRAY RECODE(*) &VARLIST1;
 ARRAY ORIG(*) &VARLIST2;
 DO I = 1 to DIM(ORIG);
     ORIG(I) = RECODE(I);
     IF ORIG(I) < 0 THEN DO;</pre>
             IF ORIG(I) = -9 THEN RECODE(I) = .;
        ELSE IF ORIG(I) = -7 THEN RECODE(I) = .O;
        ELSE IF ORIG(I) = -6 THEN RECODE(I) = .N;
        ELSE IF ORIG(I) = -5 THEN RECODE(I) = .D;
        ELSE IF ORIG(I) = -4 THEN RECODE(I) = . I;
        ELSE IF ORIG(I) = -1 THEN RECODE(I) = .C;
     END;
 END;
 DROP I;
/* recode selected responses to be 1=marked, 2=unmarked */
         MARKED(*)
 ARRAY
         H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
         H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
         S13AA02A S13AA02B S13AA02C S13AA02D S13AA02E S13AA02F S13AA02G S13AA02H
         S13AA02I S13AA02J S13AA02K S13AA02L S13AA02V S13AA02M S13AA02N S13AA02O
         S13AA02P S13AA02Q S13AA02R S13AA02S S13AA02T S13AA02U S13AA02W
```

```
H13057A H13057B H13057C H13057D
         H13073A H13073B H13073C H13073D H13073E
         SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
         S13N12A S13N12B S13N12C S13N12D S13N12E S13N12F S13N12G S13N12H S13N12I
         S13N12J S13N12K S13N12L S13N12M
 ARRAY INFORMAT(*)
         H13002AO H13002CO H13002NO H13002OO H13002PO H13002QO H13002SO H13002TO H13002UO
         H13002FO H13002GO H13002HO H13002IO H13002JO H13002KO H13002MO H13002RO H13002LO
         S13AA02AO S13AA02BO S13AA02CO S13AA02DO S13AA02EO S13AA02FO S13AA02GO S13AA02HO
         S13AA02IO S13AA02JO S13AA02KO S13AA02LO S13AA02VO S13AA02MO S13AA02NO S13AA02OO
         S13AA02PO S13AA02QO S13AA02RO S13AA02SO S13AA02TO S13AA02UO S13AA02WO
         H13057AO H13057BO H13057CO H13057DO
         H13073AO H13073BO H13073CO H13073DO H13073EO
         SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO
         $13N12AO $13N12BO $13N12CO $13N12DO $13N12EO $13N12FO $13N12GO $13N12HO $13N12IO
         S13N12JO S13N12KO S13N12LO S13N12MO
             ;
 DO J=1 TO DIM(INFORMAT);
    IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
    ELSE MARKED(J)=2;
 END;
 DROP J;
 FORMAT
         H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
         H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
         S13AA02A S13AA02B S13AA02C S13AA02D S13AA02E S13AA02F S13AA02G S13AA02H
         S13AA02I S13AA02J S13AA02K S13AA02L S13AA02V S13AA02M S13AA02N S13AA02O
         S13AA02P S13AA02Q S13AA02R S13AA02S S13AA02T S13AA02U S13AA02W
         H13057A H13057B H13057C H13057D
         H13073A H13073B H13073C H13073D H13073E
         SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
         S13N12A S13N12B S13N12C S13N12D S13N12E S13N12F S13N12G S13N12H S13N12I
         S13N12J S13N12K S13N12L S13N12M
        MARKED.;
********************
/* skip coding scheme for all surveys not returned **/
IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;
/** Note 1_Q1 -- H13003, H13004 health plan usage;
             updated to include skip coding required for supplemental questions **/
 ARRAY NOTE1_Q11 S13AA01 S13AA03 S13AA04A--S13AA04E S13AA05;
 ARRAY NOTE1_Q12 S13AA02A--S13AA02W;
 IF (H13003 > 0 OR H13003 =.D) and H13004 in(., 1, 2, 3) THEN N1_Q1=1;
 ELSE IF (H13003 > 0 OR H13003 =.D) and H13004 in( 4, 5, 6) THEN DO;
    N1_Q1=2;
    DO OVER NOTE1_Q11;
       IF NOTE1_Q11=. THEN NOTE1_Q11=.N;
```

```
ELSE NOTE1_Q11=.C;
     END;
     DO OVER NOTE1_Q12;
       IF NOTE1_Q12 IN (.,2) THEN NOTE1_Q12=.N;
    ELSE NOTE1_Q12=.C;
 END:
 ELSE IF H13003=.N THEN DO;
    N1_Q1=3;
     IF H13004=. THEN H13004=.N;
    ELSE H13004=.C;
 END;
 ELSE IF H13003=. and H13004 in(., 1, 2, 3) THEN N1_Q1=4; ELSE IF H13003=. and H13004 in(4, 5, 6) THEN DO;
    N1_Q1=5;
     DO OVER NOTE1_Q11;
        IF NOTE1_Q11=. THEN NOTE1_Q11=.N;
       ELSE NOTE1_Q11=.C;
     END;
    DO OVER NOTE1_Q12;
        IF NOTE1_Q12 IN(.,2) THEN NOTE1_Q12=.N;
    ELSE NOTE1_Q12=.C;
    END;
  END;
/** Note 1_AA1 -- S13AA01,S13AA02A-S13AA02W, S13AA03,
                 S13AA04A-S13AA04E,S13AA05: Prior health plan**/
 ARRAY NOTE1AA1_1 S13AA02A--S13AA02W;
 ARRAY NOTE1AA1_2 S13AA03 S13AA04A--S13AA04E S13AA05;
 N1AA1MARKED=0;
 DO OVER NOTE1AA1_1;
   IF NOTE1AA1_1 = 1 THEN N1AA1MARKED+1;
 END;
 DO OVER NOTE1AA1_2;
    IF NOTE1AA1_2 > 0 THEN N1AA1MARKED+1;
  IF N1_Q1 IN (2,5) THEN N1_AA1=1; /* Forwarded coded by previous note */
 ELSE IF S13AA01 > 0 OR S13AA01 =.D THEN N1_AA1=2;
 ELSE IF S13AA01=.N AND N1AA1MARKED >0 THEN DO;
    N1_AA1=3;
    S13AA01 =.;
 ELSE IF S13AA01=.N AND N1AA1MARKED =0 THEN DO;
     N1 AA1=4;
     DO OVER NOTE1AA1_1;
        IF NOTE1AA1_1 IN (.,2) THEN NOTE1AA1_1=.N;
        ELSE NOTE1AA1_1=.C;
     END;
     DO OVER NOTE1AA1_2;
        IF NOTE1AA1_2=. THEN NOTE1AA1_2=.N;
        ELSE NOTE1AA1_2=.C;
    END;
 END;
 ELSE IF S13AA01=. THEN N1_AA1=5;
 DROP N1AA1MARKED;
/** Note 2 -- H13006, H13007, H13008: illness or injury **/
 ARRAY NOTE2 H13007 H13008;
 N2MARK=0;
 N2NMISS=0;
 N2NN=0;
 DO OVER NOTE2;
     IF NOTE2 NE . THEN N2NMISS+1;
```

```
IF NOTE2 NOT IN (.N,.) THEN N2MARK+1;
    IF NOTE2 EQ .N THEN N2NN+1;
  END;
  IF H13006=1 AND N2NMISS=0 THEN DO;
      N2=1;
 END;
 ELSE IF H13006 IN (1,.) AND N2NMISS>0 AND N2MARK=0 THEN DO;
    H13006=2;
    N2=2;
    DO OVER NOTE2;
       IF NOTE2=. THEN NOTE2=.N;
       ELSE NOTE2=.C;
     END;
 END;
  ELSE IF H13006=1 AND N2MARK=1 AND N2NN=1 THEN DO;
    DO OVER NOTE2;
      IF NOTE2=.N THEN NOTE2=.;
    END;
    N2 = 3;
 END;
 ELSE IF H13006=1 AND N2MARK>0 THEN DO;
    N2 = 4;
 END;
 ELSE IF H13006=2 AND N2MARK=1 AND N2NN=1 THEN DO;
    H13007=.C;
    H13008=.C;
    N2=5;
 END;
  ELSE IF H13006 IN (2,.) AND N2MARK>0 THEN DO;
    H13006=1;
    N2=6;
    DO OVER NOTE2;
       IF NOTE2=.N THEN NOTE2=.;
 END;
  ELSE IF H13006=2 AND (N2NMISS=0 OR (N2NMISS>0 AND N2MARK=0)) THEN DO;
    N2=7;
    DO OVER NOTE2;
       IF NOTE2=. THEN NOTE2=.N;
       ELSE NOTE2=.C;
 END:
 ELSE IF H13006=. AND N2NMISS=0 THEN N2=8;
 DROP N2NMISS N2MARK N2NN;
/** Note 3 -- H13009,H13010,H13011: regular or routine healthcare **/
 ARRAY Note3 H13010 H13011;
 N3MARK=0;
 N3NMISS=0;
 N3NN=0;
 DO OVER Note3;
    IF Note3 NE . THEN N3NMISS+1;
    IF Note3 NOT IN (.N,.) THEN N3MARK+1;
    IF Note3 EQ .N THEN N3NN+1;
  IF H13009=1 AND N3NMISS=0 THEN DO;
  END;
 ELSE IF H13009 IN (1,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
    H13009=2;
    N3 = 2;
    DO OVER Note3;
       IF Note3=. THEN Note3=.N;
       ELSE Note3=.C;
     END;
```

```
END;
 ELSE IF H13009=1 AND N3MARK=1 AND N3NN=1 THEN DO;
    DO OVER Note3;
      IF Note3=.N THEN Note3=.;
    END;
    N3 = 3;
 END:
 ELSE IF H13009=1 AND N3MARK>0 THEN DO;
    N3 = 4;
 END;
 ELSE IF H13009=2 AND N3MARK=1 AND N3NN=1 THEN DO;
    H13010=.C;
    H13011=.C;
    N3=5;
 END;
 ELSE IF H13009 IN (2,.) AND N3MARK>0 THEN DO;
    H13009=1;
    N3=6;
    DO OVER Note3;
       IF Note3=.N THEN Note3=.;
    END;
 END;
 ELSE IF H13009=2 AND (N3NMISS=0 OR (N3NMISS>0 AND N3MARK=0)) THEN DO;
    N3 = 7;
    DO OVER Note3;
       IF Note3=. THEN Note3=.N;
       ELSE Note3=.C;
    END;
 END;
 ELSE IF H13009=. AND N3NMISS=0 THEN N3=8;
 DROP N3NMISS N3MARK N3NN;
/** Note 4 -- H13013, H13014-H13018: doctor's office or clinic **/
 ARRAY NOTE4 H13014-H13018;
 N4MARK=0;
 N4NMISS=0;
 DO OVER NOTE4;
    IF NOTE4 NE . THEN N4NMISS+1;
    IF NOTE4 NOT IN (., .N) THEN N4MARK+1;
 END;
 IF H13013=1 THEN DO;
    N4=1;
    DO OVER NOTE4;
       IF NOTE4=. THEN NOTE4=.N;
       ELSE NOTE4=.C;
    END;
 ELSE IF H13013 IN (2,3,4,5,6,7,.) AND N4NMISS>0 AND N4MARK=0 THEN DO;
    H13013=1;
    N4 = 2;
    DO OVER NOTE4;
       IF NOTE4=. THEN NOTE4=.N;
       ELSE NOTE4=.C;
    END;
 END;
 ELSE IF H13013 IN (2,3,4,5,6,7) AND (N4NMISS=0 OR N4MARK>0) THEN DO;
    DO OVER NOTE4;
      IF NOTE4=.N THEN NOTE4=.;
    END;
    N4 = 3;
 ELSE IF H13013=. AND N4NMISS=0 THEN N4=4;
 ELSE IF H13013 IN (.) AND N4MARK>0 THEN DO;
    N4 = 5;
    DO OVER NOTE4;
```

```
IF NOTE4=.N THEN NOTE4=.;
    END;
 END;
 DROP N4NMISS N4MARK;
/** Note 5 -- H13015, H13016-H13017: doctor's office or clinic- treatment **/
IF H13015 IN (.N,.C) THEN N5=1;
ELSE IF H13015= 1 THEN N5=2;
ELSE IF H13015 IN (2,.) AND H13016 IN (1,2) THEN DO;
    H13015=1;
END;
ELSE IF H13015 IN (2,.) AND (H13016 IN (3,4,.) AND H13017 IN (1,2)) THEN DO;
    N5=4;
    H13015=1;
END;
ELSE IF H13015 IN (2) AND (H13016 IN (3,4,.) AND H13017 IN (3,4,.)) THEN DO;
    IF H13016 = . THEN H13016 = .N;
    ELSE H13016 = .C;
    IF H13017 = . THEN H13017 = .N;
    ELSE H13017 = .C;
END;
ELSE IF H13015 IN (.) AND (H13016 IN (3,4,.) AND H13017 IN (3,4,.)) THEN DO;
    N5=6;
END;
/** Note 6 -- H13019, H13020-H13027, S13009: personal doctor **/
/* MER 07/01/09 */
 ARRAY NOTE6 H13021-H13024;
 N6MARK=0;
 DO OVER NOTE6;
    IF NOTE6 NOT IN (., .N) THEN N6MARK+1;
 IF H13020 NOT IN (0,.) THEN N6MARK+1;
 IF H13019 = 1 THEN DO;
    N6=1;
    IF H13027=.N THEN H13027=.;
 ELSE IF H13019 in (2,.) AND H13027 in (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
    N6=2;
    H13019=1;
 END;
 ELSE IF H13019 in (2,.) AND N6MARK>0 AND H13027 = . THEN DO;
    N6 = 3;
    H13019=1;
 ELSE IF H13019 = 2 AND N6MARK>0 AND H13027 = .N THEN DO;
    IF H13020=. THEN H13020=.N;
    ELSE H13020=.C;
    DO OVER NOTE6;
       IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
    END;
    IF H13025=. THEN H13025=.N;
    ELSE H13025=.C;
    IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
    IF S13009=. THEN S13009=.N;
    ELSE S13009=.C;
    H13027=.C;
 END;
```

```
ELSE IF H13019 = 2 AND N6MARK=0 AND H13027 in (.N,.) THEN DO;
     N6 = 5;
     IF H13020=. THEN H13020=.N;
     ELSE H13020=.C;
     DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
     END;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
     ELSE H13026=.C;
     IF S13009=. THEN S13009=.N;
    ELSE S13009=.C;
     IF H13027=. THEN H13027=.N;
     ELSE H13027=.C;
  END;
 ELSE IF \rm H13019 = . AND \rm H13027 = .N THEN DO; /* MER \rm 07/31/09 combined rows 6 and 7 */
    N6=6;
     H13019=2;
     IF H13020=. THEN H13020=.N;
     ELSE H13020=.C;
     DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
     END;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
     ELSE H13026=.C;
     IF S13009=. THEN S13009=.N;
    ELSE S13009=.C;
    H13027=.C;
 ELSE IF H13019 = . AND N6MARK=0 AND H13027 = . THEN N6=7;
 DROP N6MARK;
/** Note 7 -- H13020, H13021-H13026: personal doctor visit **/
 ARRAY NOTE7 H13021-H13024;
 N7MARK=0;
 N7NMISS=0;
 DO OVER NOTE7;
     IF NOTE7 NE . THEN N7NMISS+1;
     IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
  IF H13020 IN (.N, .C) THEN N7=1;
  ELSE IF H13020=0 THEN DO;
     N7 = 2;
     DO OVER NOTE7;
       IF NOTE7=. THEN NOTE7=.N;
       ELSE NOTE7=.C;
     END;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
     ELSE H13026=.C;
 ELSE IF H13020 IN (1,2,3,4,5,6,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
     H13020=0;
     N7 = 3;
     DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
        ELSE NOTE7=.C;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
```

```
IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
  END;
  ELSE IF H13020 IN (1,2,3,4,5,6,.) AND (N7NMISS=0 OR N7MARK>0) THEN DO;
    DO OVER NOTE7;
       IF NOTE7=.N THEN NOTE7=.;
    END:
    N7 = 4;
 END;
 DROP N7NMISS N7MARK;
/** Note 8 -- H13025, H13026: care from another doctor or healthcare provider **/
  IF H13025 IN (.N, .C) THEN N8=1;
  ELSE IF H13025=1 THEN N8=2;
 ELSE IF H13025 IN (2,.) AND H13026 IN (1,2,3,4) THEN DO;
    H13025=1;
 END:
 ELSE IF H13025=2 AND H13026 IN (.) THEN DO;
    H13026=.N;
    N8 = 4;
 END;
 ELSE IF H13025=. AND H13026=. THEN N8=5;
/** Note 8_01 -- S13009, S13010: problem getting new personal doctor or nurse **/
 IF S13009 IN (.N,.C) THEN N8_01=1; /* MER 07/31/09 gave each S13009 value its own row for
analysis purposes */
 ELSE IF S13009=1 THEN DO;
    N8_01=2;
    IF S13010=. THEN S13010=.N;
    ELSE S13010=.C;
 END;
 ELSE IF S13009=2 THEN N8_01=3;
 ELSE IF S13009=. THEN N8_01=4; /* MER 07/31/09 eliminated backward coding for missing S13009
/** Note 9 -- H13028, H13029-H13031: needed to see a specialist in last 12 months **/
 ARRAY NOTE9 H13029 H13031;
 N9MARK=0;
 N9NMISS=0;
 DO OVER NOTE9;
    IF NOTE9 NE . THEN N9NMISS+1;
    IF NOTE9 NOT IN (., .N) THEN N9MARK+1;
 END;
 IF H13030 NE . THEN N9NMISS+1;
  IF H13030 NOT IN (.,0) THEN N9MARK+1;
 IF H13028 IN (1) THEN DO;
    N9=1;
    IF H13029=.N THEN H13029=.;
 END;
  ELSE IF H13028 in (2,.) AND N9MARK>0 THEN DO;
    H13028=1;
    IF H13029=.N THEN H13029=.;
 END;
  ELSE IF H13028 in (2) THEN DO;
    N9 = 3;
    DO OVER NOTE9;
       IF NOTE9=. THEN NOTE9=.N;
       ELSE NOTE9=.C;
     END;
```

```
IF H13030=. THEN H13030=.N;
    ELSE H13030=.C;
  END;
 ELSE IF H13028=. AND N9NMISS>0 AND N9MARK=0 THEN DO;
    N9 = 4;
    H13028=2;
    DO OVER NOTE9;
       IF NOTE9=. THEN NOTE9=.N;
       ELSE NOTE9=.C;
    END;
    IF H13030=. THEN H13030=.N;
    ELSE H13030=.C;
 ELSE IF H13028=. AND N9NMISS=0 THEN N9=5;
 DROP N9NMISS N9MARK;
/** Note 10 -- H13030, H13031: saw a specialist in last 12 months **/
 IF H13030 IN (.N,.C) AND H13031 IN (.N,.C) THEN N10=1;
 ELSE IF H13030 IN (1,2,3,4,5) AND H13031 IN (0,1,2,3,4,5,6,7,8,9,10,.) THEN N10=2;
 ELSE IF H13030 IN (1,2,3,4,5,.) AND H13031 = .N THEN DO;
    N10=3;
    H13030=0;
    H13031=.C;
  ELSE IF H13030 = 0 THEN DO;
    N10=4;
     IF H13031 = . THEN H13031 = .N;
     ELSE H13031 = .C;
 ELSE IF H13030 = . AND H13031 IN (0,1,2,3,4,5,6,7,8,9,10,...) THEN N10=5;
/** Note 10_B1 -- S13B02, S13B03-S13B04: overall mental health **/
 ARRAY NOTE10B1 S13B03-S13B04;
 N10B1MARK=0;
 N10B1NMISS=0;
 DO OVER NOTE10B1;
    IF NOTE10B1 NE . THEN N10B1NMISS+1;
    IF NOTE10B1 NOT IN (., .N) THEN N10B1MARK+1;
 END;
  IF S13B02 = 1 THEN DO;
    N10_B1=1;
    DO OVER NOTE10B1;
       IF NOTE10B1=.N THEN NOTE10B1=.;
 END;
  ELSE IF S13B02 IN (2,.) AND (N10B1MARK>0) THEN DO;
    N10 B1=2;
    S13B02=1;
    DO OVER NOTE10B1;
       IF NOTE10B1=.N THEN NOTE10B1=.;
 END;
  ELSE IF S13B02=2 AND (N10B1NMISS=0 OR (N10B1NMISS > 0 AND N10B1MARK = 0)) THEN DO;
    N10 B1=3;
    DO OVER NOTE10B1;
       IF NOTE10B1 = . THEN NOTE10B1=.N;
       ELSE NOTE10B1 = .C;
 END;
  ELSE IF S13B02 IN (.) AND (N10B1NMISS > 0 AND N10B1MARK = 0) THEN DO;
    N10 B1=4;
    S13B02=2;
    DO OVER NOTE10B1;
        IF NOTE10B1 = . THEN NOTE10B1=.N;
        ELSE NOTE10B1 = .C;
```

```
END;
 END;
 ELSE IF S13B02 IN (.) AND N10B1NMISS=0 THEN N10_B1=5;
 DROP N10B1NMISS N10B1MARK;
/** Note 11 -- H13032, H13033: tried to get care, tests, or treatment from health plan**/
  IF H13032=1 AND H13033 IN (1,2,3,4,.) THEN N11=1;
 ELSE IF H13032 IN (1,.) AND H13033=.N THEN DO;
    H13032=2;
    H13033=.C;
    N11=2;
 END;
 ELSE IF H13032 IN (2,.) AND H13033 IN (1,2,3,4) THEN DO;
    N11=3;
 END;
  ELSE IF H13032=2 AND H13033 IN (.,.N) THEN DO;
    IF H13033=. THEN H13033=.N;
    ELSE H13033=.C;
    N11=4;
 END;
 ELSE IF H13032=. AND H13033=. THEN N11=5;
/** Note 12 -- H13034, H13035: look for info in written materials or on internet**/
 IF H13034=1 AND H13035 IN (1,2,3,4,.) THEN N12=1;
 ELSE IF H13034 IN (1,.) AND H13035=.N THEN DO;
    N12=2;
    H13034=2;
    H13035=.C;
 ELSE IF H13034 IN (2,.) AND H13035 IN (1,2,3,4) THEN DO;
    H13034=1;
  END;
 ELSE IF H13034=2 AND H13035 IN (.N,.) THEN DO;
    IF H13035=. THEN H13035=.N;
    ELSE H13035=.C;
 ELSE IF H13034=. AND H13035=. THEN N12=5;
/** Note 13 -- H13036, H13037: tried to get cost of service/equipment from health plan**/
 IF H13036=1 AND H13037 IN (1,2,3,4,.) THEN N13=1;
 ELSE IF H13036 IN (1,.) AND H13037=.N THEN DO;
    H13036=2;
    H13037=.C;
    N13=2;
 END;
  ELSE IF H13036 IN (2,.) AND H13037 IN (1,2,3,4) THEN DO;
    H13036=1;
    N13=3;
 END;
  ELSE IF H13036=2 AND H13037 IN (.,.N) THEN DO;
    IF H13037=. THEN H13037=.N;
    ELSE H13037=.C;
    N13=4;
 END;
 ELSE IF H13036=. AND H13037=. THEN N13=5;
/** Note 14 -- H13038, H13039: tried to get cost of prescription meds from health plan**/
  IF H13038=1 AND H13039 IN (1,2,3,4,.) THEN N14=1;
  ELSE IF H13038 IN (1,.) AND H13039=.N THEN DO;
    H13038=2;
    H13039=.C;
    N14=2;
```

```
END;
 ELSE IF H13038 IN (2,.) AND H13039 IN (1,2,3,4) THEN DO;
    H13038=1;
    N14=3;
 END;
 ELSE IF H13038=2 AND H13039 IN (.,.N) THEN DO;
    IF H13039=. THEN H13039=.N;
    ELSE H13039=.C;
    N14=4;
 END;
 ELSE IF H13038=. AND H13039=. THEN N14=5;
ARRAY NOTE15 H13041-H13042;
 N15MARK=0;
 N15NMISS=0;
 DO OVER NOTE15;
    IF NOTE15 NE . THEN N15NMISS+1;
    IF NOTE15 NOT IN (., .N) THEN N15MARK+1;
 END;
 IF H13040 = 1 AND (N15MARK>0 OR N15NMISS=0) THEN DO;
    DO OVER NOTE15;
       IF NOTE15=.N THEN NOTE15=.;
    END;
    N15=1;
 END;
 ELSE IF H13040 IN (1,.) AND (N15NMISS > 0 AND N15MARK = 0) THEN DO;
    N15=2;
    H13040=2;
    DO OVER NOTE15;
       IF NOTE15 = . THEN NOTE15=.N;
       ELSE NOTE15 = .C;
    END;
 END;
 ELSE IF H13040 IN (2,.) AND (N15MARK>0) THEN DO;
    N15=3;
    H13040=1;
    DO OVER NOTE15;
       IF NOTE15=.N THEN NOTE15=.;
    END;
 END;
 ELSE IF H13040=2 AND (N15NMISS=0 OR (N15NMISS > 0 AND N15MARK = 0)) THEN DO;
    N15=4;
    DO OVER NOTE15;
       IF NOTE15 = . THEN NOTE15=.N;
       ELSE NOTE15 = .C;
 END;
 ELSE IF H13040 IN (.) AND N15NMISS=0 THEN N15=5;
 DROP N15NMISS N15MARK;
/** Note 16 -- H13043, H13044: received forms to fill out from health plan **/
 IF H13043=1 AND H13044 IN (1,2,3,4,.) THEN N16=1;
 ELSE IF H13043 IN (1,.) AND H13044=.N THEN DO;
    H13043=2;
    H13044=.C;
    N16=2;
 END;
 ELSE IF H13043 IN (2,.) AND H13044 IN (1,2,3,4) THEN DO;
    N16=3;
 END;
 ELSE IF H13043=2 AND H13044 IN (.,.N) THEN DO;
    IF H13044=. THEN H13044=.N;
    ELSE H13044=.C;
```

```
N16=4;
 END;
 ELSE IF H13043=. AND H13044=. THEN N16=5;
/** Note 17 -- H13045, H13046-H13047: claims to health plan **/
 ARRAY NOTE17 H13046-H13047;
 N17MARK=0;
 N17NDK=0;
 DO OVER NOTE17;
     IF NOTE17 NOT IN (.N,.D,.) THEN N17MARK+1; /* At least one is marked */
    IF NOTE17 NOT IN (.,.D) THEN N17NDK+1; /* All are missing or blank or dnk */
  END;
  IF H13045=1 AND (N17MARK>0 OR N17NDK=0) THEN DO;
    N17=1;
    DO OVER NOTE17;
       IF NOTE17=.N THEN NOTE17=.;
    END:
 END;
 ELSE IF H13045 IN (1,.,.D) AND N17MARK=0 AND N17NDK>0 THEN DO;
    N17=2;
    H13045=2;
    DO OVER NOTE17;
       IF NOTE17=. THEN NOTE17=.N;
       ELSE NOTE17=.C;
    END;
 END:
  ELSE IF H13045 IN (2,.,.D) AND N17MARK>0
      THEN DO;
    H13045=1;
    N17=3;
    DO OVER NOTE17;
      IF NOTE17=.N THEN NOTE17=.;
    END;
 END;
 ELSE IF H13045 IN (2) AND N17MARK=0 THEN DO;
    N17 = 4;
    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
       ELSE NOTE17=.C;
    END;
 END;
 ELSE IF H13045 IN (.D) AND N17NDK=0 THEN DO;
    N17=5;
    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
       ELSE NOTE17=.C;
    END;
  END;
 ELSE IF H13045 IN (.) AND N17NDK=0 THEN N17=6;
 DROP N17MARK N17NDK;
/** Note 18 -- smoking: H13053, H13054-H13056, H13057A-H13057D **/
 ARRAY NOTE18a H13054 H13055 H13056;
 ARRAY NOTE18b H13057A--H13057D;
 N18MARK = 0;
 DO OVER NOTE18b;
   IF NOTE18b NOT IN (2,.) THEN N18MARK+1;
  IF H13053 IN (3,4,.) THEN N18=1;
 ELSE IF H13053 IN (2,.D) AND N18MARK = 0 THEN DO;
    N18=2;
    DO OVER NOTE18a;
```

```
IF NOTE18a=. THEN NOTE18a=.N;
       ELSE NOTE18a=.C;
     END;
    DO OVER NOTE18b;
       IF NOTE18b IN (2,.) THEN NOTE18b=.N;
       ELSE NOTE18b=.C;
    END:
 END;
 ELSE IF H13053 = 2 AND N18MARK > 0 THEN DO;
    N18=3;
    H13053=.;
 END;
  ELSE IF H13053 = .D AND N18MARK > 0 THEN DO;
    N18=4;
    DO OVER NOTE18a;
       IF NOTE18a=. THEN NOTE18a=.N;
       ELSE NOTE18a=.C;
    END;
    DO OVER NOTE18b;
        IF NOTE18b IN (2,.) THEN NOTE18b=.N;
       ELSE NOTE18b=.C;
    END;
 END;
 DROP N18MARK;
/** Note 19a - gender H13058, SEX, H13059B--H13064,
             XSEXA */
/* 1/21/98 use SRSEX & responses to gender specific questions
  if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE and MALE based on gender specific questions */
 ARRAY fmaleval H13059B H13060 H13061 H13062 H13063 H13064
 cntfmale=0;
                     /* mammogram/pap smear/PREGNANT*/
 DO OVER fmaleval;
    IF fmaleval>0 THEN cntfmale=cntfmale+1;
 END;
 IF cntfmale>0 THEN FMALE=1;
 ELSE FMALE = 0;
  IF H13058=. THEN DO;
     IF (SEX='F' AND FMALE) THEN DO;
      N19a=1;
       XSEXA=2;
     END;
    ELSE IF (SEX='F' AND FMALE=0) THEN DO;
       N19a=2;
       XSEXA=2;
    END;
    ELSE IF (SEX='M' AND FMALE) THEN DO;
       N19a=3;
       XSEXA=1;
     END;
     ELSE IF (SEX='M' AND FMALE=0) THEN DO;
       N19a=4;
       XSEXA=1;
     ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
       N19a=5;
       XSEXA=2;
     END;
     ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
       N19a=6;
       XSEXA=.;
     END;
     ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
```

```
N19a=7;
       XSEXA=.;
    END;
 END;
 ELSE IF (H13058=1) THEN DO;
    IF FMALE=0 THEN DO;
      N19a=8;
      XSEXA=1;
    END;
    ELSE IF FMALE THEN DO;
       IF SEX='F' THEN DO;
         N19a=9;
          XSEXA=2;
       END;
       ELSE DO;
        N19a=10;
          XSEXA=1;
       END;
    END;
 END;
 ELSE IF (H13058=2) THEN DO;
    IF FMALE THEN DO;
      N19a=11;
      XSEXA=2;
    END;
    ELSE IF FMALE=0 THEN DO;
       IF SEX='M' THEN DO;
         N19a=12;
         XSEXA=1;
       END;
       ELSE DO;
         N19a=13;
          XSEXA=2;
       END;
    END;
 END;
/* Note 19b - gender vs mammogram/paps/pregnancy */
  ARRAY NOTE19b H13059B H13060 H13061 H13062 H13063 H13064
  IF XSEXA=1 THEN DO;    /* male */
    IF FMALE=0 THEN DO;
       N19b=1;
       DO OVER NOTE19b;
         NOTE19b=.N;
       END;
    END; /* valid skip */
    ELSE IF FMALE=1 THEN DO;
       N19b=2;
       DO OVER NOTE19b;
         IF NOTE19b=. THEN NOTE19b = .N;
          ELSE NOTE19b=.C;
       END;
    END; /* inconsistent response */
 ELSE IF XSEXA=2 THEN N19b=3; /* female */
  ELSE IF XSEXA=. THEN DO; /* missing sex */
    N19b=4;
    DO OVER NOTE19b;
       NOTE19b=.;
    END;
 END;
 DROP FMALE CNTFMALE;
/* Note 20- breast exam for female 40 or over */
 IF XSEXA=1 THEN DO; /* male */
```

```
IF (H13060=.C OR H13060=.N) AND (H13061=.C OR H13061=.N)
    THEN N20 = 1;
 END;
 ELSE IF XSEXA=2 THEN DO;
                                   /* female 40 or over */
     IF H13060=2 THEN N20=2;
     ELSE IF H13060=1 THEN DO; /* female < 40 */
       IF H13061 NE . THEN H13061=.C;
       ELSE H13061=.N;
       N20=3;
     END;
    ELSE IF H13060=. THEN DO;
        IF H13061 NE . THEN DO;
          H13060=2;
          N20=4;
        END;
       ELSE IF H13061=. THEN DO;
          IF AGE<40 THEN DO;
             H13060 = 1;
              H13061=.N;
             N20=5;
           END:
          ELSE IF AGE >= 40 THEN DO;
             H13060=2;
             N20=6;
          END;
          ELSE IF AGE=. THEN N20=7;
        END;
    END;
 END;
 ELSE IF XSEXA=. THEN N20=8;
/* Note 21 - gender vs Pregnancy */
                                 /* male
 IF XSEXA=1 THEN N21=1;
                                 /* female */
 ELSE IF XSEXA=2 THEN DO;
    IF H13062=1 THEN DO;
                                 /* pregnant */
       IF H13063=1 THEN DO;
           N21=2;
           IF H13064 = . THEN H13064 = .N;
          ELSE H13064=.C;
        END:
        ELSE IF H13063=2 AND H13064 IN (2) THEN DO;
          N21=3;
          H13064=.;
        END;
        ELSE IF H13063=2 AND H13064 IN (4,3,1,.) THEN DO;
          N21=4;
        END;
       ELSE IF H13063 IN (3,.) THEN N21=5;
     END;
     ELSE IF H13062=2 THEN DO;
        IF H13063 = . THEN H13063 = .N;
        ELSE H13063=.C;
       N21=6;
     END;
     ELSE IF H13062=3 THEN DO;
       N21 = 7;
        IF H13063 = .N;
        ELSE H13063=.C;
       IF H13064=. THEN H13064=.N;
       ELSE H13064=.C;
     END;
     ELSE IF H13062 IN (.) THEN DO;
       IF H13063=1 THEN DO;
          N21=8;
          H13062=1;
           IF H13064=. THEN H13064 = .N;
          ELSE H13064=.C;
        END;
        ELSE IF H13063=2 AND H13064 IN (2) THEN DO;
```

```
N21=9;
          H13062=1;
          H13064=.;
       ELSE IF H13063=2 AND H13064 IN (4,3,1,.) THEN DO;
          N21=10;
       END;
       ELSE IF H13063=3 THEN DO;
          H13062=1;
          N21=11;
       END;
       ELSE IF H13063=. THEN DO;
          N21=12;
        END;
    END;
  END;
 ELSE IF XSEXA=. AND H13062 IN (.) THEN N21=13;
 DROP AGE SEX;
/** Note 22 -- \rm H13067, \rm H13068: seen doctor 3 or more times for same condition **/
 IF H13067=1 THEN N22=1;
 ELSE IF H13067 IN (2,.) AND H13068 IN (1,2) THEN DO;
    H13067=1;
    N22=2;
 ELSE IF H13067=2 AND H13068 IN (.) THEN DO;
    H13068=.N;
    N22=3;
 END;
 ELSE IF H13067=. AND H13068=. THEN N22=4;
/** Note 23 -- H13069, H13070: need or take medicine prescribed by a doctor **/
 IF H13069=1 THEN N23=1;
 ELSE IF H13069 IN (2,.) AND H13070 IN (1,2) THEN DO;
    H13069=1;
    N23=2;
 ELSE IF H13069=2 AND H13070 IN (.) THEN DO;
    H13070=.N;
    N23=3;
 END;
 ELSE IF H13069=. AND H13070=. THEN N23=4;
/** Note 24 -- \rm H13073, \rm H13073A-H13073E: Hispanic or Latino origin or descent **/
  ****Multiple responses were given to this question so H13073 is being created
  ****from the multiple responses.;
 IF H13073B=1 THEN DO;
    N24=1;
    H13073=2;
 END;
 ELSE IF H13073E=1 THEN DO;
    N24=2;
    H13073=5;
 END;
  ELSE IF H13073C=1 THEN DO;
```

```
N24=3;
    H13073=3;
  END;
  ELSE IF H13073D=1 THEN DO;
    N24 = 4;
     H13073=4;
  END:
  ELSE IF H13073A=1 THEN DO;
    N24=5;
    H13073=1;
  ELSE IF \tt H13073A IN (2,.) AND \tt H13073B IN (2,.) AND \tt H13073C IN (2,.) AND
          H13073D IN (2,.) AND H13073E IN (2,.) THEN DO;
    H13073=.;
  END;
/** Note 25 -- currently covered by Medicare: H13074, H13075-H13079 **/
 ARRAY NOTE25 H13075-H13079;
 N25MARK = 0;
  DO OVER NOTE25;
     IF NOTE25 NOT IN (2,.D,.) THEN N25MARK+1;
  END;
  IF H13074 = 1 THEN N25=1;
  ELSE IF H13074 IN (2,.D) AND N25MARK = 0 THEN DO;
    N25=2;
     DO OVER NOTE25;
        IF NOTE25=. THEN NOTE25=.N;
        ELSE NOTE25=.C;
     END;
  END;
  ELSE IF H13074 IN (2,.D,.) AND N25MARK > 0 THEN DO;
    N25=3;
    H13074=1;
  ELSE IF H13074 = . AND N25MARK = 0 THEN N25=4;
 DROP N25MARK;
NOSURVEY:
/* missing values */
  ARRAY MISS MISS_9 MISS_7 MISS_6 MISS_5 MISS_4 MISS_1;
  MISS_TOT=0;
  DO OVER MISS;
    MISS = 0;
  END;
  ARRAY MISSARAY &VARLIST2.;
 DO OVER MISSARAY;
     IF (MISSARAY EQ -9 ) THEN MISS_9 = MISS_9 + 1;
     ELSE IF (MISSARAY EQ -7) THEN MISS_7 = MISS_7 + 1;
     ELSE IF (MISSARAY EQ -6) THEN MISS_6 = MISS_6 + 1;
    ELSE IF (MISSARAY EQ -5) THEN MISS_5 = MISS_5 + 1;
ELSE IF (MISSARAY EQ -4) THEN MISS_4 = MISS_4 + 1;
    ELSE IF (MISSARAY EQ -1) THEN MISS_1 = MISS_1 + 1;
  END;
  DO OVER MISS;
    MISS_TOT=MISS_TOT + MISS;
*******************************
OUTPUT;
```

```
RUN;
```

proc contents data=out.cschm13q;
run;

F.2.B Q1FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.FMT - Include file for Coding Scheme for Ouarter 1 FY2013.

```
/* Formats for original answers to survey questions,
    after variables have been recoded */
       FORMAT H13001
                     H13001_O YN.
              H13003
                      H13003_O HPLAN1_.
              H13004
                      H13004_O HPTIME.
              S13AA01 S13AA01_O S12AA01_.
              S13AA03 S13AA03_O S12AA03_.
              S13AA05 S13AA05_O S12AA05_.
              S13AA04A S13AA04AO YNNA.
              S13AA04B S13AA04BO YNNA.
              S13AA04C S13AA04CO YNNA.
              S13AA04D S13AA04DO YNNA.
              S13AA04E S13AA04EO YNNA.
              H13005 H13005_O PLACE.
              H13006 H13006_O H13009 H13009_O H13019 H13019_O
                YN.
              H13007
                      H13007_O OFTEN2_.
              H13008
                     H13008_O TIME1_.
              H13010 H13010_O OFTEN3_.
              H13011 H13011_O TIME2_.
              H13012 H13012_O OFTEN4_.
              H13013
                      H13013_O OFTEN4_.
              H13014
                      H13014_O OFTEN8_.
                      H13015_O YN.
              н13015
              H13016
                      H13016_O YNDEF.
                      H13017_O YNDEF.
              H13017
                     H13018_O RATE3_.
              H13018
              H13020
                     H13020_O OFTEN10_.
              H13021-H13024 H13021_O--H13024_O OFTEN5_.
              H13025
                      H13025_O YN.
              H13026
                     H13026_O OFTEN8_.
              H13027
                      H13027_O RATE6_.
              S13009
                      S13009_O YN.
              S13010 S13010_O PROB1_.
              H13028
                      H13028_O YN.
                      H13029_O OFTEN9_.
              H13029
              н13030
                      H13030_O SPCLST.
                     H13031_O RATE2_.
              H13031
              S13B01 S13B01_O MNTLHLTH.
              S13B02 S13B02_O YN.
              S13B03 S13B03_O PROB1_.
              S13B04 S13B04_O RATE5_.
                     H13032_O YN.
              H13032
                      H13033_O OFTEN11_.
              H13033
              н13034
                      H13034_O YN.
              H13035
                     H13035_O OFTEN12_.
              H13036
                      H13036_O YN.
              н13037
                      H13037_O OFTEN13_.
                      H13038_O YN.
              H13038
              H13039
                      H13039_O OFTEN14_.
                     H13040_O YN.
              H13040
              H13041
                      H13041_O OFTEN15_.
```

```
H13042
             H13042_O OFTEN15_.
              H13043_O YN.
      H13043
      H13044
               H13044_O OFTEN16_.
      н13045
               H13045_O YNDNK.
               H13046_O OFTEN6_.
      H13046
      H13047
               H13047_O OFTEN6_.
      H13048
              H13048_O RATE4_.
      н13049
               H13049_O TIME5_.
      H13050
               H13050_O YNBP_.
      S13015
              S13015_0 S12015_.
      H13051
               H13051_O TIME7_.
      H13052
               H13052_O YNDNK.
               H13053_O TIME8_.
      H13053
      H13054
               H13054_O OFTEN8_.
               H13055_O OFTEN8_.
      H13055
               H13056_O OFTEN8_.
      H13056
      H13058
             H13058_O SEX.
      H13059B H13059BO TIME16_.
      H13060 H13060_O H13066 H13066_O
      H13061
               H13061_O TIME12_.
               H13062_O YNPREG.
      H13062
               H13063_O PREG1_.
      H13063
      H13064
               H13064_O PREG2_.
              H13065_O HEALTH.
      H13065
      H13067
               H13067_O YN.
               H13068_O YN.
      H13068
      н13069
              H13069_O YN.
      H13070
              H13070_O YN.
      S13B23
               S13B23_O YN.
               S13B24_O YN.
      S13B24
      S13B25
               S13B25_O YN.
      S13B26
               S13B26_O YN.
      H13071F H13071FO
      H13071I H13071IO
      H13072 H13072_O
       TIME14_.
      SREDA
               SREDA_O EDUC.
      H13073
                        HISP.
      SRAGE
               SRAGE_O AGEGRP.
      H13074
               H13074_O YNDNK.
               H13075_O MEDA.
      н13075
               H13076_O MEDB.
      H13076
      H13077
               H13077_O YNDNK.
               H13078_O MEDSUPP.
      H13078
      H13079
              H13079_O YNDNK.
      S13011
               S13011_O AGREE2_.
              S13014_O SATISFY.
      S13014
      S13N11
              S13N11_O S09N11_.
      MISS_1
               MISS_4-MISS_7 MISS_9 MISS_TOT 4.
     ;
LABEL H13001_O='Are you the person listed on envelope'
      H13001 ='Are you the person listed on envelope'
```

```
H13002AO='Health plan(s) covered: TRICARE Prime'
H13002A = 'Health plan(s) covered: TRICARE Prime'
H13002CO='Health plan(s) covered: TRICARE Ext/Stnd'
H13002C = 'Health plan(s) covered: TRICARE Ext/Stnd'
H13002NO='Health plan(s) covered: TRICARE Plus'
H13002N = 'Health plan(s) covered: TRICARE Plus'
H1300200='Health plan(s) covered: TRICARE For Life'
H130020 = 'Health plan(s) covered: TRICARE For Life'
H13002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
H13002P = 'Health plan(s) covered: TRICARE Supplmntl Ins'
H13002QO='Health plan(s) covered: TRICARE Reserve Select'
H13002Q ='Health plan(s) covered: TRICARE Reserve Select'
H13002SO='Health plan(s) covered: TRICARE Retired Reserve'
H13002S = 'Health plan(s) covered: TRICARE Retired Reserve'
H13002TO='Health plan(s) covered: TRICARE Young Adult'
H13002T = 'Health plan(s) covered: TRICARE Young Adult'
H13002UO='Health plan(s) covered: CHCBP'
H13002U = 'Health plan(s) covered: CHCBP'
H13002FO='Health plan(s) covered: Medicare'
H13002F = 'Health plan(s) covered: Medicare'
H13002GO='Health plan(s) covered: FEHBP'
H13002G = 'Health plan(s) covered: FEHBP'
H13002HO='Health plan(s) covered: Medicaid'
H13002H = 'Health plan(s) covered: Medicaid'
H13002IO='Health plan(s) covered: civilian HMO'
H13002I = 'Health plan(s) covered: civilian HMO'
H13002JO='Health plan(s) covered: other civilian'
H13002J = 'Health plan(s) covered: other civilian'
H13002KO='Health plan(s) covered: USFHP'
H13002K = 'Health plan(s) covered: USFHP'
H13002MO='Health plan(s) covered: veterans'
H13002M = 'Health plan(s) covered: veterans'
H13002RO='Health plan(s) covered: gov hlth ins-other cntry'
H13002R = 'Health plan(s) covered: gov hlth ins-other cntry'
H13002LO='Health plan(s) covered: not sure'
H13002L = 'Health plan(s) covered: not sure'
H13003_O='Which health plan did you use most'
H13003 ='Which health plan did you use most'
H13004_O='Yrs in a row with health plan'
H13004 ='Yrs in a row with health plan'
H13005_O='In lst yr:fclty use most for health care'
H13005 ='In 1st yr:fclty use most for health care'
H13006_O='In lst yr:ill/injry/cond care right away'
H13006 ='In lst yr:ill/injry/cond care right away'
H13007_O='In 1st yr:get urgnt care as soon as wntd'
H13007 ='In lst yr:get urgnt care as soon as wntd'
H13008_O='In lst yr:wait btwn try get care,see prv'
H13008 = 'In 1st yr:wait btwn try get care, see prv'
H13009_O='In 1st yr:make appts non-urgnt hlth care'
H13009 ='In 1st yr:make appts non-urgnt hlth care'
H13010_O='In lst yr:non-urg hlth cre appt whn wntd'
H13010 = 'In 1st yr:non-urg hlth cre appt whn wntd'
H13011_O='In lst yr:days btwn appt & see prvder'
H13011 = 'In lst yr:days btwn appt & see prvder'
H13012_O='In lst yr:go to emrgncy rm for own care'
H13012 = 'In 1st yr:go to emrgncy rm for own care'
H13013_O='In 1st yr:go to Dr office/clinic for care'
\tt H13013 = 'In \ lst \ yr:go \ to \ Dr \ office/clinic \ for \ care'
H13014 = 'Lst yr: how often talk to doctor about illness prvntn'
H13014_O='Lst yr: how often talk to doctor about illness prvntn'
H13015 ='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H13015_O='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H13016 ='Lst yr: did talk to doctor about pros/cons of trtmnt'
H13016_O='Lst yr: did talk to doctor about pros/cons of trtmnt'
H13017 = 'Lst yr: did doctor ask which trtmnt option best for you'
H13017_O='Lst yr: did doctor ask which trtmnt option best for you'
H13018_O='Rating of all health care in 1st yr'
H13018 ='Rating of all health care in 1st yr'
H13019_O='Have one person think of as personal Dr'
H13019 = 'Have one person think of as personal Dr'
H13020 ='Lst yr: how often visit prsnl doctor for care for yourself'
H13020_O='Lst yr: how often visit prsnl doctor for care for yourself'
H13021_O='Lst yr: how oftn Drs listen to you'
```

```
H13021 = 'Lst yr: how oftn Drs listen to you'
H13022_O='Lst yr: how oftn Drs explain things'
H13022 = 'Lst yr: how oftn Drs explain things'
H13023_O='Lst yr: how oftn Drs show respect'
H13023 = 'Lst yr: how oftn Drs show respect'
H13024_O='Lst yr: how oftn Drs spend enough time'
H13024 = 'Lst yr: how oftn Drs spend enough time'
H13025 = 'Lst yr: did get care from doctor other than prsnl doctor'
{\tt H13025\_0='Lst~yr:} did get care from doctor other than prsnl doctor'
H13026 ='Lst yr: how often prsnl doctor seemed infrmd of care from other doctors'
H13026_O='Lst yr: how often prsnl doctor seemed infrmd of care from other doctors'
H13027_O='Rating of your personal Dr'
H13027 = 'Rating of your personal Dr'
H13028 = 'Lst yr: did make any appointments to see spclst'
H13028_O='Lst yr: did make any appointments to see spclst'
H13029 = 'Lst yr: how often easy to get appointments with spclsts'
H13029_O='Lst yr: how often easy to get appointments with spclsts'
H13030 = 'Lst yr: how many spclsts seen'
H13030_O='Lst yr: how many spclsts seen'
H13031_O='Rating of specialist seen in 1st yr'
H13031 = 'Rating of specialist seen in 1st yr'
H13032 = 'Lst yr: did try to get care, test, or trtmnt through health plan'
H13032_O='Lst yr: did try to get care, test, or trtmnt through health plan'
H13033 = 'Lst yr: how often easy to get care, test, or trtmnt'
H13033_O='Lst yr: how often easy to get care, test, or trtmnt'
H13034 ='Lst yr: did look for info from written material/Internet'
H13034_O='Lst yr: did look for info from written material/Internet'
H13035 = 'Lst yr: how often written material/Internet provide needed info'
H13035_O='Lst yr: how often written material/Internet provide needed info'
H13036 ='Lst yr: did look for info from health plan on cost of service/equipment'
H13036_0='Lst yr: did look for info from health plan on cost of service/equipment'
H13037 = 'Lst yr: how often able to find out cost of service/equipment'
H13037_O='Lst yr: how often able to find out cost of service/equipment'
H13038 ='Lst yr: did look for info from health plan on cost of prescription meds'
H13038_O='Lst yr: did look for info from health plan on cost of prescription meds'
H13039 = 'Lst yr: how often able to find out cost of prescription meds'
{\tt H13039\_O='Lst~yr:} how often able to find out cost of prescription meds'
H13040 ="Lst yr: did try to get info/help from health plan's cstmr service"
H13040_O="Lst yr: did try to get info/help from health plan's cstmr service"
H13041 ='Lst yr: how often did cstmr service give needed info/help'
H13041_O='Lst yr: how often did cstmr service give needed info/help'
H13042 = 'Lst yr: how often did cstmr service treat with courtesy/respect'
H13042_O='Lst yr: how often did cstmr service treat with courtesy/respect'
H13043 ='Lst yr: did health plan give any forms to fill out'
H13043_0='Lst yr: did health plan give any forms to fill out'
H13044 ='Lst yr: how often were forms easy to fill out'
H13044_O='Lst yr: how often were forms easy to fill out'
H13045 = 'Lst yr: send in any claims'
H13045_O='Lst yr: send in any claims'
H13046 ='Lst yr: how often did health plan handle claims quickly'
H13046_O='Lst yr: how often did health plan handle claims quickly'
H13047_O='Lst yr: how oftn handle claims correctly'
H13047 = 'Lst yr: how oftn handle claims correctly
H13048 ='Rating of all experience with hlth plan'
H13048_O='Rating of all experience with hlth plan'
H13049_O='Blood pressure: when 1st reading'
H13049 = 'Blood pressure: when 1st reading'
H13050_O='Blood pressure: know if too high or not'
H13050 = 'Blood pressure: know if too high or not'
H13051_O='When did you 1st have a flu shot'
H13051 ='When did you 1st have a flu shot'
H13052 ='Smoked at least 100 cigarettes in life'
H13052_O='Smoked at least 100 cigarettes in life'
H13053 ='Smoke or use tobacco everyday, some days or not at all'
H13053_O='Smoke or use tobacco everyday, some days or not at all'
H13054_O='Lst yr: how often advised to quit smoking or use tobacco'
H13054 ='Lst yr: how often advised to quit smoking or use tobacco'
H13055 = 'Lst yr: how often recom medic assist quit smoking or using tobacco'
H13055_O='Lst yr: how often recom medic assist quit smoking or using tobacco'
H13056 = 'Lst yr: how often discu meth/strag asst quit smoking or using tobacco'
H13056_O='Lst yr: how often discu meth/strag asst quit smoking or using tobacco'
H13057A = 'Do you smoke or use: cigarettes'
H13057AO='Do you smoke or use: cigarettes'
```

```
H13057B = 'Do you smoke or use: dip, chewing tobacco, snuff, or snus'
H13057BO='Do you smoke or use: dip, chewing tobacco, snuff, or snus'
H13057C ='Do you smoke or use: cigars'
H13057CO='Do you smoke or use: cigars'
H13057D ='Do you smoke or use: pipes, bidis, or kreteks'
H13057DO='Do you smoke or use: pipes, bidis, or kreteks'
{\tt H13058\_O='Are~you~male~or~female'}
H13058 ='Are you male or female'
H13059BO='Lst have a Pap smear test'
H13059B = 'Lst have a Pap smear test'
H13060_O='Are you under age 40'
H13060 ='Are you under age 40'
H13061_O='Lst time: breasts checked mammography'
H13061 = 'Lst time: breasts checked mammography'
H13062_O='Been pregnant in 1st yr or pregnant now'
H13062 = 'Been pregnant in 1st yr or pregnant now'
H13063_0='In what trimester is your pregnancy'
H13063 ='In what trimester is your pregnancy
H13064_O='Trimester first received prenatal care'
H13064 ='Trimester first received prenatal care'
H13065_O='In gnrl, how would you rate ovrall hlth'
H13065 = 'In gnrl, how would you rate ovrall hlth'
H13066_O='Impairment/Hlth prblm limit activities'
H13066 = 'Impairment/Hlth prblm limit activities'
H13067 ='Lst yr: have seen doctor 3 or more times for same condition'
H13067_O='Lst yr: have seen doctor 3 or more times for same condition'
H13068 = 'Has condition lasted for at least 3 months'
H13068_O='Has condition lasted for at least 3 months'
H13069 ='Need to take medicine prescribed by a doctor'
H13069_O='Need to take medicine prescribed by a doctor'
H13070 ='Medicine to treat condition that has lasted for at least 3 months'
{\tt H13070\_O='Medicine} to treat condition that has lasted for at least 3 months'
H13071FO='Height without shoes (feet)'
H13071F = 'Height without shoes (feet)'
H13071IO='Height without shoes (inches)'
H13071I = 'Height without shoes (inches)'
H13072_O='Weight without shoes'
H13072 ='Weight without shoes'
SREDA_O ='Highest grade completed'
SREDA ='Highest grade completed'
H13073 ='Are you Spanish/Hispanic/Latino'
H13073AO='Not Spanish/Hispanic/Latino'
H13073A = 'Not Spanish/Hispanic/Latino'
H13073BO='Mexican, Mexican American, Chicano'
H13073B = 'Mexican, Mexican American, Chicano'
H13073CO='Puerto Rican'
H13073C = 'Puerto Rican'
H13073D0='Cuban'
H13073D = 'Cuban'
H13073EO='Other Spanish, Hispanic, or Latino'
H13073E = 'Other Spanish, Hispanic, or Latino'
SRRACEAO='Race: White'
SRRACEA = 'Race: White'
SRRACEBO='Race: Black or African American'
SRRACEB ='Race: Black or African American'
SRRACECO='Race: American Indian or Alaska Native'
SRRACEC ='Race: American Indian or Alaska Native'
SRRACEDO='Race: Asian'
SRRACED = 'Race: Asian'
SRRACEEO='Race: Native Hawaiian/other Pacific Isl.'
SRRACEE = 'Race: Native Hawaiian/other Pacific Isl.'
SRAGE_O ='What is your age now'
SRAGE ='What is your age now'
H13074 = 'Currently Covered Medicare'
H13074_O='Currently Covered Medicare'
H13075 = 'Currently Covered Medicare Part A'
H13075_O='Currently Covered Medicare Part A'
H13076 = 'Currently Covered Medicare Part B'
H13076_O='Currently Covered Medicare Part B'
H13077 = 'Enrolled Medicare Advantage'
H13077_O='Enrolled Medicare Advantage'
H13078 = 'Currently Covered Medicare Supplemental'
H13078_O='Currently Covered Medicare Supplemental'
```

```
H13079 = 'Enrolled Medicare Part D'
H13079 O='Enrolled Medicare Part D'
S13AA01 O='Prior health plan'
S13AA01='Prior health plan'
S13AA03_O='Main reason switched'
S13AA03='Main reason switched'
S13AA05_O='Changed doctors when switched plan'
S13AA05='Changed doctors when switched plan'
S13AA04AO='Prob w/ prior plan: expensive bills for services not covered'
S13AA04A='Prob w/ prior plan:expensive bills for services not covered'
S13AA04BO='Prob w/ prior plan: dr charged more than insurance would pay'
S13AA04B='Prob w/ prior plan: dr charged more than insurance would pay'
S13AA04CO="Prob w/ prior plan: dr's office would not accept my insurance"
S13AA04C="Prob w/ prior plan: dr's office would not accept my insurance"
S13AA04D0='Prob w/ prior plan: insurance did not pay bill promptly/denied payment'
S13AA04D='Prob w/ prior plan: insurance did not pay bill promptly/denied payment'
S13AA04EO='Prob w/ prior plan: plan did not include specialist I needed'
S13AA04E='Prob w/ prior plan: plan did not include specialist I needed'
S13AA02AO='Reason switched: I lost my job' S13AA02A='Reason switched: I lost my job'
S13AA02BO='Reason switched: my spouse/parent lost his/her job'
S13AA02B='Reason switched: my spouse/parent lost his/her job'
S13AA02CO='Reason switched: I changed jobs'
S13AA02C='Reason switched: I changed jobs'
S13AA02D0='Reason switched: my spouse/parent changed jobs'
S13AA02D='Reason switched: my spouse/parent changed jobs'
S13AA02EO='Reason switched: I retired from a job that provided coverage'
S13AA02E='Reason switched: I retired from a job that provided coverage'
S13AA02FO='Reason switched: spouse/parent rtd from job that provided coverage'
S13AA02F='Reason switched: spouse/parent rtd from job that provided coverage'
S13AA02GO='Reason switched: moved to a new area'
S13AA02G='Reason switched: moved to a new area'
S13AA02HO='Reason switched: in the Select Reserves and became active'
S13AA02H='Reason switched: in the Select Reserves and became active'
S13AA02IO='Reason switched: spouse/parent activated in Select Reserves'
S13AA02I='Reason switched: spouse/parent activated in Select Reserves'
S13AA02JO='Reason switched: I am a Natl Grd/Reserve Member deactivated'
S13AA02J='Reason switched: I am a Natl Grd/Reserve Member deactivated'
S13AA02KO='Reason switched: spouse/parent deactivated Natl Grd/Reserve Member'
S13AA02K='Reason switched: spouse/parent deactivated Natl Grd/Reserve Member'
S13AA02LO='Reason switched: employer changed plans'
S13AA02L='Reason switched: employer changed plans'
S13AA02VO='Reason switched: employer stopped providing health coverage'
S13AA02V='Reason switched: employer stopped providing health coverage'
S13AA02MO='Reason switched: my dr/other health care provider left the plan'
S13AA02M='Reason switched: my dr/other health care provider left the plan'
S13AA02NO='Reason switched: I did not like the referral requirements'
S13AA02N='Reason switched: I did not like the referral requirements'
S13AA0200='Reason switched: could not get appointments as soon as I wanted'
S13AA020='Reason switched: could not get appointments as soon as I wanted'
S13AA02PO="Reason switched: dissatisfied with the plan's customer service"
S13AA02P="Reason switched: dissatisfied with the plan's customer service"
S13AA02Q0='Reason switched: preferred new plan'
S13AA02Q='Reason switched: preferred new plan'
S13AA02RO="Reason switched: difficult to park at clinic/doctor's office"
S13AA02R="Reason switched: difficult to park at clinic/doctor's office"
S13AA02SO='Reason switched: travel too far to get needed care'
S13AA02S='Reason switched: travel too far to get needed care'
S13AA02TO='Reason switched: married, divorced, or widowed'
S13AA02T='Reason switched: married, divorced, or widowed'
S13AA02UO='Reason switched: became eligible for Medicare'
S13AA02U='Reason switched: became eligible for Medicare'
S13AA02WO='Reason switched: other'
S13AA02W='Reason switched: other'
S13009_O='Same prsnl doctor/nurse before this hlth plan'
S13009 ='Same prsnl doctor/nurse before this hlth plan'
S13010_O='Prblm getting prsnl doctor/nurse you are happy with'
S13010 = 'Prblm getting prsnl doctor/nurse you are happy with'
S13B01_O='Self rate of overall mental/emotional health'
S13B01 ='Self rate of overall mental/emotional health'
```

```
S13B02_O='Lst yr: needed treatmnt/cnslng-prsnl prob'
S13B02 = 'Lst yr: needed treatmnt/cnslng-prsnl prob'
S13B03_O='Lst yr: prblm gttng needed treatmnt/cnslng'
S13B03 = 'Lst yr: prblm gttng needed treatmnt/cnslng'
S13B04_O='Lst yr: rate of treatmnt/cnslng received'
S13B04 = 'Lst yr: rate of treatmnt/cnslng received'
S13015 = 'When did you last have cholesterol screening'
S13015_O='When did you last have cholesterol screening'
S13B23_O='Past month: nightmares/thoughts you did not want'
S13B23 ='Past month: nightmares/thoughts you did not want'
S13B24_O='Past month: tried not to think about or be reminded'
S13B24 = 'Past month: tried not to think about or be reminded'
S13B25_O='Past month: constantly on guard, watchful, or startled'
S13B25 ='Past month: constantly on guard, watchful, or startled'
S13B26_O='Past month: felt numb or detached from others'
S13B26 = 'Past month: felt numb or detached from others'
S13011 ='Agree/disagree: able to see provider when needed'
S13011_0='Agree/disagree: able to see provider when needed'
S13014 = 'How satisfied with health care during last visit'
S13014_O='How satisfied with health care during last visit'
S13N11_O='Prefer civilian or military facilities for hlth care'
S13N11 ='Prefer civilian or military facilities for hlth care'
S13N12A0='Reason preferred: greater choice of doctors'
S13N12A = 'Reason preferred: greater choice of doctors'
S13N12B0='Reason preferred: personal doctor at that facility type'
S13N12B ='Reason preferred: personal doctor at that facility type'
S13N12CO='Reason preferred: specialist at that facility type'
S13N12C ='Reason preferred: specialist at that facility type'
S13N12D0='Reason preferred: no military facilities near me'
S13N12D ='Reason preferred: no military facilities near me'
S13N12EO='Reason preferred: travel too far to civilian facility'
S13N12E ='Reason preferred: travel too far to civilian facility'
S13N12FO='Reason preferred: travel too far to military facility'
S13N12F ='Reason preferred: travel too far to military facility'
S13N12GO='Reason preferred: easier to get care'
S13N12G ='Reason preferred: easier to get care'
S13N12H0='Reason preferred: told to get care at military facility'
S13N12H ='Reason preferred: told to get care at military facility'
S13N12IO='Reason preferred: good value for out-of-pocket costs'
S13N12I ='Reason preferred: good value for out-of-pocket costs'
S13N12J0='Reason preferred: out-of-pocket costs are less'
S13N12J ='Reason preferred: out-of-pocket costs are less'
S13N12KO='Reason preferred: have not needed health care'
S13N12K ='Reason preferred: have not needed health care'
S13N12LO='Reason preferred: another reason'
S13N12L = 'Reason preferred: another reason'
S13N12MO='Reason preferred: no preference'
S13N12M = 'Reason preferred: no preference'
N1 O1 = "Coding Scheme Note 1 O1"
N1_AA1= "Coding Scheme Note 1_AA1"
N2
    = "Coding Scheme Note 2"
     = "Coding Scheme Note 3"
ИЗ
     = "Coding Scheme Note 4"
N4
N5
     = "Coding Scheme Note 5"
N6
     = "Coding Scheme Note 6"
Ν7
     = "Coding Scheme Note 7"
     = "Coding Scheme Note 8"
М8
N8 01 = "Coding Scheme Note 8 01"
     = "Coding Scheme Note 9"
Ν9
     = "Coding Scheme Note 10"
N10_B1= "Coding Scheme Note 10_B1"
N11 = "Coding Scheme Note 11"
     = "Coding Scheme Note 12"
N12
     = "Coding Scheme Note 13"
N13
     = "Coding Scheme Note 14"
N14
N15
     = "Coding Scheme Note 15"
     = "Coding Scheme Note 16"
N16
```

```
N17 = "Coding Scheme Note 17"
N18 = "Coding Scheme Note 18"
N19A = "Coding Scheme Note 19A"
N19B = "Coding Scheme Note 19B"
     = "Coding Scheme Note 20"
N20
N21
     = "Coding Scheme Note 21"
     = "Coding Scheme Note 22"
N22
N23 = "Coding Scheme Note 23"
N24 = "Coding Scheme Note 24"
N25
     = "Coding Scheme Note 25"
MISS_1 = "Count of: violates skip pattern"
/*MISS_3 = "Count of: do not use other tobacco products response"*/
MISS_4 = "Count of: incomplete grid error"
MISS_5 = "Count of: scalable reponse of don't know"
MISS_6 = "Count of: not applicable - valid skip"
MISS_7 = "Count of: out-of-range error"
MISS_9 = "Count of: no response - invalid skip"
MISS_TOT = "Total number of missing responses"
XSEXA = "Male or Female - R"
```

F-33

F.2.C Q2FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.SAS - Implement Coding Scheme and Coding Tables for Ouarter 2 FY2013.

```
Program: Cschm13q.sas
  Written: 06/04/2001
   Author: C. Rankin
    Input: MERGESYN.sas7bdat - Merged MPR Sampling, DEERS, and Synovate Response Data
   Output: CSCHM13Q.sas7bdat - Coding scheme file
 Modified: 9/20/2001 - Recodes removed (stored in recodes_old.sas)
           10/31/2001 - Revised notes 16 and 17 (became notes 26 and 27)
            3/22/2002 - Updated Variable names for Q1 2002 and added
                       Include file RENAME.SAS to change the variable
                       names from 01 to 02. Skipping 01 designation to make
                       survey reflect year of fielding
            5/09/2002 - Change to logic in TFL supplement
            3/17/2003 - Updated Variables names for Q1 2003 4/11/2003 - Added note 19a to accomodate Q1 2003 error where
                       an option on most of the questionnaires was omitted for
                       H03062
            3/28/2008 - Updated Variable names for Q2 FY 2008
           12/14/2009 - Updated Variable names for Q1 FY 2010
           12/01/2010 - Updated Variable names for Q1 FY 2011
           12/09/2011 - Updated Variable names for Q1 FY 2012
           12/15/2012 - Updated Variable names for Q1 FY 2013
           12/15/2012 - Removed logic for handling check boxes for height and
                       weight variables. Also no longer have to convert the
                       weight variable from character to numeric
           12/21/2012 - Added code on line 146 to correct out of range height (in)
 Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
            Response Data, check for consistency in responses and skip
            patterns
  Include
    files: Cschm13q.fmt
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2;
*OPTIONS OBS=100;
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN
                 "..\..\DATA\AFINAL";
                 "..\..\DATA\AFINAL";
LIBNAME OUT
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM13q;
%LET PERIOD=January, 2012 to December, 2012;
/* Variable names in survey -- become recoded varibles */
%Let varlist1 =
H13001 H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
H13003 H13004
S13J01 S13J02A S13J02B S13J02C S13J02D S13J02E S13J02F S13J02G S13J02H S13J02I
S13J03 S13J04 S13J05 S13J06 S13J07A S13J07B S13J07C S13J07D S13J07E S13J07F
S13J07G S13J07H S13J07I S13J07J S13J07K S13J07L S13J07M S13J07N S13J07O S13J08
S13J09A S13J09B S13J09C S13J09D S13J09E S13J09F S13J09G S13J09H S13J09I S13J09J
S13J13H S13J13I S13J13J S13J13K S13J13L S13J13M S13J13N S13J14
S13AC01 S13AC02A S13AC02B S13AC02C S13AC02D S13AC02E S13AC02F S13AC02G S13AC03
S13AC04 S13AC05A S13AC05B S13AC05C S13AC05D S13AC05E S13AC05F S13AC05G
H13006 H13007 H13008 H13009 H13010 H13011 H13012 H13013 H13014 H13015
H13016 H13017 H13018 H13019 H13020 H13021 H13022 H13023 H13024 H13025
H13026 H13027
S13009 S13010
H13028 H13029 H13030 H13031
```

```
S13B01 S13B02 S13B03 S13B04
H13032 H13033 H13034 H13035 H13036 H13037 H13038 H13039 H13040 H13041 H13042 H13043 H13044 H13045 H13046 H13047 H13048 H13049 H13050 H13051
H13052 H13053 H13054 H13055 H13056 H13057A H13057B H13057C H13057D H13058
H13059B H13060 H13061 H13062 H13063 H13064 H13065 H13066 H13067 H13068
H13069 H13070
S13B23 S13B24 S13B25 S13B26
H13071F H13071I H13072
SREDA H13073A H13073B H13073C H13073D H13073E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
H13074 H13075 H13076 H13077 H13078 H13079
S13011 S13014
^{\prime \star} _O variables are the original values from the survey response ^{\star \prime}
%Let varlist2 =
H13001_O H13002AO H13002CO H13002NO H13002OO H13002PO H13002QO H13002SO H13002TO H13002UO
H13002FO H13002GO H13002HO H13002IO H13002JO H13002KO H13002MO H13002RO H13002LO
H13003 O H13004 O
S13J01_O S13J02AO S13J02BO S13J02CO S13J02DO S13J02FO S13J02FO S13J02GO S13J02HO S13J02IO
$13J03_0 $13J04_0 $13J05_0 $13J06_0 $13J07A0 $13J07B0 $13J07C0 $13J07D0 $13J07E0 $13J07F0
$13J07GO $13J07HO $13J07IO $13J07JO $13J07KO $13J07LO $13J07MO $13J07NO $13J07OO $13J08_O
S13J09AO S13J09BO S13J09CO S13J09DO S13J09EO S13J09FO S13J09GO S13J09HO S13J09IO S13J09JO
$13J09KO $13J09LO $13J10_O $13J13AO $13J13BO $13J13CO $13J13DO $13J13EO $13J13FO $13J13GO
$13J13HO $13J13IO $13J13JO $13J13KO $13J13LO $13J13MO $13J13NO $13J14_O
H13005 O
S13AC01_0 S13AC02A0 S13AC02B0 S13AC02C0 S13AC02D0 S13AC02E0 S13AC02F0 S13AC02G0 S13AC03_0
S13AC04 O S13AC05AO S13AC05BO S13AC05CO S13AC05DO S13AC05EO S13AC05FO S13AC05GO
H13006_O H13007_O H13008_O H13009_O H13010_O H13011_O H13012_O H13013_O H13014_O H13015_O
H13016_O H13017_O H13018_O H13019_O H13020_O H13021_O H13022_O H13023_O H13024_O H13025_O
H13026_O H13027_O
S13009_O S13010_O
H13028_O H13029_O H13030_O H13031_O
S13B01_0 S13B02_0 S13B03_0 S13B04_0
H13032_O H13033_O H13034_O H13035_O H13036_O H13037_O H13038_O H13039_O H13040_O H13041_O
H13042_O H13043_O H13044_O H13045_O H13046_O H13047_O H13048_O H13049_O H13050_O H13051_O
H13052_O H13053_O H13054_O H13055_O H13056_O H13057AO H13057BO H13057CO H13057DO H13058_O
H13059BO H13060_O H13061_O H13062_O H13063_O H13064_O H13065_O H13066_O H13067_O H13068_O
н13069 О н13070 О
S13B23_O S13B24_O S13B25_O S13B26_O
H13071FO H13071IO H13072_O
SREDA_O H13073AO H13073BO H13073CO H13073DO H13073EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O
H13074_O H13075_O H13076_O H13077_O H13078_O H13079_O
S13011_0 S13014_0
TITLE "DoD 2013 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";
DATA MERGESYN;
 SET IN.MERGESYN(RENAME=(S13J05 = S13J05CH));
*******************
* Code added by Jacqueline Agufa 09/15/2004 to fix name of race variable;
 RENAME SRACEA = SRRACEA;
 RENAME SRACEB = SRRACEB;
  RENAME SRACEC = SRRACEC;
  RENAME SRACED = SRRACED;
 RENAME SRACEE = SRRACEE;
  *** Correct odd height and weights Per Eric Schone;
  IF H13071F NOT IN (-9,.) THEN DO;
   IF H13071F < 2 OR
```

```
H13071F > 8
   THEN H13071F= -7;
 END;
  IF H13071I NOT IN (-9,.) THEN DO;
   IF H13071I > 11 then H13071I=-7;
  END:
 IF 0 <= H13072 < 40 OR
   H13072 > 500
 THEN H13072= -7;
  ^{\prime \star} MER 12/1/10 Handle monthly cost variable similar to weight variable ^{\star \prime}
 S13J05= COMPRESS(S13J05CH,'')*1;
 DROP S13J05CH;
 IF S13J05=0 AND S13J05N IN (-9)
                                     THEN S13J05 =S13J05N;
DATA OUT.CSCHM13q;
 LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
 INFORMAT &VARLIST2. 4.;
 %INCLUDE "CSCHM13q.FMT";
/* label and format statements for original variables */
  SET MERGESYN;
**** Recodes for invalid responses:**************************;
/* This is a version of the coding scheme and coding tables for the
  FY 2013 HCSDB Form A.
  The following tables outline the coding of screening questions (skip),
  and subsequent items to be answered (or not answered in a series
  following a skip question.) */
/* First set up new variables that capture the original values */
/* recode the initial numeric values to the SAS numeric values */
/* specified in the coding scheme
  SEX=PNSEXCD;
 AGE=INPUT(DAGEQY,8.);
 ARRAY RECODE(*) &VARLIST1;
 ARRAY ORIG(*) &VARLIST2;
 DO I = 1 to DIM(ORIG);
     ORIG(I) = RECODE(I);
     IF ORIG(I) < 0 THEN DO;</pre>
            IF ORIG(I) = -9 THEN RECODE(I) = .;
        ELSE IF ORIG(I) = -7 THEN RECODE(I) = .O;
        ELSE IF ORIG(I) = -6 THEN RECODE(I) = .N;
        ELSE IF ORIG(I) = -5 THEN RECODE(I) = .D;
        ELSE IF ORIG(I) = -4 THEN RECODE(I) = .I;
        ELSE IF ORIG(I) = -1 THEN RECODE(I) = .C;
     END;
  END;
 DROP I;
/* recode selected responses to be 1=marked, 2=unmarked */
```

```
ARRAY
       MARKED(*)
        H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
        H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
        S13J02A S13J02B S13J02C S13J02D S13J02E S13J02F S13J02G S13J02H S13J02I
        $13J07A $13J07B $13J07C $13J07D $13J07E $13J07F $13J07G $13J07H $13J07I
        S13J07J S13J07K S13J07L S13J07M S13J07N S13J07O S13J09A S13J09B S13J09C
        S13J09D S13J09E S13J09F S13J09G S13J09H S13J09I S13J09J S13J09K S13J09L
        S13J13A S13J13B S13J13C S13J13D S13J13E S13J13F S13J13G S13J13H S13J13I
        S13J13J S13J13K S13J13L S13J13M S13J13N
        S13AC02A S13AC02B S13AC02C S13AC02D S13AC02E S13AC02F S13AC02G
        $13AC05A $13AC05B $13AC05C $13AC05D $13AC05E $13AC05F $13AC05G
        H13057A H13057B H13057C H13057D
        H13073A H13073B H13073C H13073D H13073E
        SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
ARRAY INFORMAT(*)
        H13002AO H13002CO H13002NO H13002OO H13002PO H13002QO H13002SO H13002TO H13002UO
        H13002FO H13002GO H13002HO H13002IO H13002JO H13002KO H13002MO H13002RO H13002LO
        $13J02AO $13J02BO $13J02CO $13J02DO $13J02EO $13J02FO $13J02GO $13J02HO $13J02IO
        $13J07AO $13J07BO $13J07CO $13J07DO $13J07EO $13J07FO $13J07GO $13J07HO $13J07IO
        $13J07JO $13J07KO $13J07LO $13J07MO $13J07NO $13J07OO $13J09AO $13J09BO $13J09CO
        S13J09DO S13J09EO S13J09FO S13J09GO S13J09HO S13J09IO S13J09JO S13J09KO S13J09LO
        $13J13AO $13J13BO $13J13CO $13J13DO $13J13EO $13J13FO $13J13GO $13J13HO $13J13IO
        S13J13J0 S13J13KO S13J13LO S13J13MO S13J13NO
        $13AC02AO $13AC02BO $13AC02CO $13AC02DO $13AC02EO $13AC02FO $13AC02GO
        $13AC05AO $13AC05BO $13AC05CO $13AC05DO $13AC05EO $13AC05FO $13AC05GO
        H13057AO H13057BO H13057CO H13057DO
        H13073AO H13073BO H13073CO H13073DO H13073EO
        SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO
DO J=1 TO DIM(INFORMAT);
   IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
   ELSE MARKED(J)=2;
END:
DROP J;
FORMAT
        H13002A H13002C H13002N H13002O H13002P H13002O H13002S H13002T H13002U
        H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
        S13J02A S13J02B S13J02C S13J02D S13J02E S13J02F S13J02G S13J02H S13J02I
        S13J07A S13J07B S13J07C S13J07D S13J07E S13J07F S13J07G S13J07H S13J07I
        S13J07J S13J07K S13J07L S13J07M S13J07N S13J07O S13J09A S13J09B S13J09C
        S13J09D S13J09E S13J09F S13J09G S13J09H S13J09I S13J09J S13J09K S13J09L
        S13J13A S13J13B S13J13C S13J13D S13J13E S13J13F S13J13G S13J13H S13J13I
        S13J13J S13J13K S13J13L S13J13M S13J13N
        S13AC02A S13AC02B S13AC02C S13AC02D S13AC02E S13AC02F S13AC02G
        S13AC05A S13AC05B S13AC05C S13AC05D S13AC05E S13AC05F S13AC05G
        H13057A H13057B H13057C H13057D
        H13073A H13073B H13073C H13073D H13073E
        SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
        MARKED.;
```

```
************************
/* skip coding scheme for all surveys not returned **/
IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;
/** Note 1 -- H13003, H13004 health plan usage **/
 IF H13003 > 0 OR H13003 =.D THEN N1=1;
 ELSE IF H13003=.N THEN DO;
    IF H13004 NOT=. THEN DO;
       N1 = 2;
       H13004=.C;
    END;
    ELSE DO;
       N1=3;
       H13004 = .N;
 END:
 ELSE IF H13003=. THEN N1=4;
/** Note 1_J1 -- S13J01, S13J02A-S13J02I, S13J03-S13J06,
              S13J07A-S13J07O, S13J08, S13J09A-S13J09L,
              S13J10, S13J13A-S13J13N, S13J14: COBRA or retirement coverage
                      from a previous job or some other group **/
 ARRAY NOTE1J11 S13J02A--S13J02H;
 ARRAY NOTE1J12 S13J07A--S13J07O S13J09A--S13J09L S13J13A--S13J13N;
 ARRAY NOTE1J13 S13J03-S13J06 S13J08 S13J10 S13J14;
 N1J1MARK1=0;
 N1J1MARK2=0;
 DO OVER NOTE1J11;
    IF NOTE1J11 NOT IN (.,2) THEN N1J1MARK1+1;
 DO OVER NOTE1J12;
   IF NOTE1J12 NOT IN (.,2) THEN N1J1MARK2+1;
 DO OVER NOTE1J13;
    IF NOTE1J13 NOT IN (.,.D) THEN N1J1MARK2+1;
 END;
 IF S13J01=1 THEN N1_J1=1;
 ELSE IF S13J01 IN (2,.) AND N1J1MARK1 > 0 THEN DO;
    N1_J1=2;
    S13J01=1;
 END;
 ELSE IF S13J01=2 AND N1J1MARK1=0 THEN DO;
    N1_J1=3;
    DO OVER NOTE1J11;
       NOTE1J11=.N;
    END;
    IF S13J02I IN (.,2) THEN S13J02I=.N;
    ELSE S13J02I=.C;
    DO OVER NOTE1J12;
       IF NOTE1J12 IN (.,2) THEN NOTE1J12=.N;
       ELSE NOTE1J12=.C;
    END;
    DO OVER NOTE1J13;
       IF NOTE1J13=. THEN NOTE1J13=.N;
       ELSE NOTE1J13=.C;
    END;
 END;
 ELSE IF S13J01=. AND N1J1MARK1=0 THEN DO;
```

```
IF N1J1MARK2 > 0 THEN DO;
       N1 J1=4;
       S13J01=1;
    END;
    ELSE DO;
       N1_J1=5;
       DO OVER NOTE1J11;
         NOTE1J11=.;
       END;
       S13J02I=.;
       DO OVER NOTE1J12;
         NOTE1J12=.;
       END;
    END;
 END;
 DROP N1J1MARK1 N1J1MARK2;
/** Note 1_J2 -- S13J03-S13J05: You/you and others covered in civilian policy **/
 ARRAY NOTE1J2 S13J04-S13J05;
 IF S13J03 IN (.N,.C) THEN N1_J2=1;
 ELSE IF S13J03 IN (1, 2)
 THEN DO;
   N1_J2=2;
 END;
 ELSE IF S13J03 IN (4)
      THEN DO;
    N1_J2=3;
    DO OVER NOTE1J2;
       IF NOTE1J2=. THEN NOTE1J2=.N;
       ELSE NOTE1J2=.C;
    END;
 END;
 ELSE IF S13J03 IN (.) THEN N1_J2=4;
/** Note 1_J3 -- S13J04, S13J05: Insurance Coverage payment **/
 IF S13J04 IN(.N, .C) AND S13J05 IN (.N, .C) THEN N1_J3=1;
 ELSE IF S13J04 IN (1,2,.D,.) AND (S13J05 > 0 or S13J05 IN (.D, .))
 THEN DO;
    N1_J3=2;
 END;
 ELSE IF S13J04 IN (1,2,.D,.) AND (S13J05=0) THEN DO;
    N1 J3=3;
    S13J04=3;
    S13J05=.C;
 END;
 ELSE IF S13J04=3 THEN DO;
    N1_J3=4;
    IF S13J05=. THEN S13J05=.N;
    ELSE S13J05=.C;
 END;
/** Note 1_J4 -- S13J06, S13J07A-S13J070: Used civilian coverage **/
 $13J07E $13J07C $13J07M $13J07N $13J07H $13J07O $13J07K $13J07L;
 N1J4NMISS=0;
 DO OVER NOTE1J4;
    IF NOTE1J4 NOT IN (.,2) THEN N1J4NMISS+1;
 END;
 IF S13J06 IN (.N, .C) THEN N1_J4=1;
```

```
ELSE IF S13J06 IN (.,1) AND N1J4NMISS > 0 THEN DO;
    N1 J4=2;
    S13J06=2;
 END;
 ELSE IF S13J06=1 AND N1J4NMISS=0 THEN DO;
    N1_J4=3;
    DO OVER NOTE1J4;
     NOTE1J4=.N;
    END;
 END;
 ELSE IF S13J06=2 THEN DO;
    N1_J4=4;
 ELSE IF S13J06=. AND N1J4NMISS=0 THEN DO;
    DO OVER NOTE1J4;
       IF NOTE1J4 NE . THEN NOTE1J4=.;
 END;
 DROP N1J4NMISS;
/** Note 1_J5 -- S13J08, S13J09A-S13J09L: Used TRICARE for health coverage **/
 S13J09F S13J09B S13J09G S13J09K S13J09L;
 N1J5NMISS=0;
 DO OVER NOTE1J5;
   IF NOTE1J5 NOT IN (.,2) THEN N1J5NMISS+1;
 IF S13J08 IN (.N, .C) THEN N1_J5=1;
 ELSE IF S13J08 IN (.,1) AND N1J5NMISS > 0 THEN DO;
    N1_J5=2;
    S13J08=2;
 END;
 ELSE IF S13J08=1 AND N1J5NMISS=0 THEN DO;
    N1_J5=3;
    DO OVER NOTE1J5;
      NOTE1J5=.N;
    END;
 END;
 ELSE IF S13J08=2 THEN DO;
    N1_J5=4;
 END;
 ELSE IF S13J08=. AND N1J5NMISS=0 THEN DO;
    N1_J5=5;
    DO OVER NOTE1J5;
       IF NOTE1J5 NE . THEN NOTE1J5=.;
    END;
 END;
 DROP N1J5NMISS;
/** Note 1_J6 -- S13J10, S13J13A-S13J13N, S13J14: Dropped civilian coverage **/
 ARRAY NOTE1J6 S13J13A--S13J13N;
 N1J6NMISS=0;
 DO OVER NOTE1J6;
    IF NOTE1J6 NOT IN (.,2) THEN N1J6NMISS+1;
 IF S13J14 > 0 THEN N1J6NMISS+1;
 IF S13J10 IN (.N, .C) THEN N1_J6=1;
 ELSE IF S13J10=1 THEN N1_J6=2;
```

```
ELSE IF S13J10 IN (.,2) AND N1J6NMISS > 0 THEN DO;
    N1_J6=3;
    S13J10=1;
 END;
 ELSE IF S13J10=2 AND N1J6NMISS=0 THEN DO;
    N1_J6=4;
    DO OVER NOTE1J6;
      NOTE1J6=.N;
    END;
    S13J14=.N;
 END;
 ELSE IF S13J10=. AND N1J6NMISS=0 THEN DO;
    N1_J6=5;
    DO OVER NOTE1J6;
      IF NOTE1J6 NE . THEN NOTE1J6=.;
    END;
    S13J14=.;
 END;
 DROP N1J6NMISS;
/** Note 1_AC1 -- H13005, S13AC01, S13AC02A-S13AC02G, S13AC03-S13AC04,
                 S13AC05A-S13AC05G: missed, cancelled, or rescheduled
                 appointments **/
 IF H13005 < 5 THEN N1_AC1=1;</pre>
  ELSE DO;
    N1 AC1=2;
    DO OVER NOTE1AC1_1;
       IF NOTE1AC1_1 = . THEN NOTE1AC1_1 = .N;
ELSE NOTE1AC1_1 = .C;
    DO OVER NOTE1AC1_2;
       IF NOTE1AC1_2 IN (.,2) THEN NOTE1AC1_2 = .N;
       ELSE NOTE1AC1_2 = .C;
    END;
 END;
/** Note 1_AC2 -- S13AC01, S13AC02A-S13AC02G: missed appointments **/
 ARRAY NOTE1AC2 S13AC02A--S13AC02G;
 N1AC2NMISS=0;
 DO OVER NOTE1AC2;
    IF NOTE1AC2 NOT IN (.,2) THEN N1AC2NMISS+1;
  IF S13AC01 IN (.N,.C) THEN N1_AC2=1;
 ELSE IF S13AC01=1 THEN N1_AC2=2;
 ELSE IF S13AC01 IN (.,2) AND N1AC2NMISS > 0 THEN DO;
    N1_AC2=3;
    S13AC01=1;
 END;
 ELSE IF S13AC01=2 AND N1AC2NMISS=0 THEN DO;
    N1_AC2=4;
    DO OVER NOTE1AC2;
       NOTE1AC2=.N;
    END;
 END;
  ELSE IF S13AC01=. AND N1AC2NMISS=0 THEN DO;
    N1 AC2=5;
    DO OVER NOTE1AC2;
       IF NOTE1AC2 NE . THEN NOTE1AC2=.;
    END;
 END;
 DROP N1AC2NMISS;
```

```
/** Note 1_AC3 -- S13AC03, S13AC04, S13AC05A-S13AC05G:
                 cancelled and rescheduled appointments **/
 ARRAY NOTE1AC3 S13AC05A--S13AC05G;
 N1AC3NMISS=0;
 DO OVER NOTE1AC3;
    IF NOTE1AC3 NOT IN (.,2) THEN N1AC3NMISS+1;
 IF S13AC04 > 0 THEN N1AC3NMISS+1;
 IF S13AC03 IN (.N,.C) THEN N1_AC3=1;
  ELSE IF S13AC03=1 THEN N1_AC3=2;
 ELSE IF S13AC03 IN (.,2) AND N1AC3NMISS > 0 THEN DO;
    N1_AC3=3;
    S13AC03=1;
 END:
 ELSE IF S13AC03=2 AND N1AC3NMISS=0 THEN DO;
    N1_AC3=4;
    DO OVER NOTE1AC3;
      NOTE1AC3=.N;
    END;
    S13AC04=.N;
 END;
 ELSE IF S13AC03=. AND N1AC3NMISS=0 THEN DO;
    N1_AC3=5;
    DO OVER NOTE1AC3;
      IF NOTE1AC3 NE . THEN NOTE1AC3=.;
    END;
 END;
 DROP N1AC3NMISS;
/** Note 2 -- H13006, H13007, H13008: illness or injury **/
 ARRAY NOTE2 H13007 H13008;
 N2MARK=0;
 N2NMISS=0;
 N2NN=0;
 DO OVER NOTE2;
    IF NOTE2 NE . THEN N2NMISS+1;
    IF NOTE2 NOT IN (.N,.) THEN N2MARK+1;
    IF NOTE2 EQ .N THEN N2NN+1;
  IF H13006=1 AND N2NMISS=0 THEN DO;
  ELSE IF H13006 IN (1,.) AND N2NMISS>0 AND N2MARK=0 THEN DO;
    H13006=2;
    N2 = 2;
    DO OVER NOTE2;
       IF NOTE2=. THEN NOTE2=.N;
       ELSE NOTE2=.C;
    END;
 END;
  ELSE IF H13006=1 AND N2MARK=1 AND N2NN=1 THEN DO;
    DO OVER NOTE2;
      IF NOTE2=.N THEN NOTE2=.;
    END;
    N2 = 3;
  END;
  ELSE IF H13006=1 AND N2MARK>0 THEN DO;
   N2 = 4;
  END;
 ELSE IF H13006=2 AND N2MARK=1 AND N2NN=1 THEN DO;
```

```
H13007=.C;
    H13008 = .C;
    N2=5;
 END;
 ELSE IF H13006 IN (2,.) AND N2MARK>0 THEN DO;
    H13006=1;
    N2=6;
    DO OVER NOTE2;
       IF NOTE2=.N THEN NOTE2=.;
    END;
 END;
 ELSE IF H13006=2 AND (N2NMISS=0 OR (N2NMISS>0 AND N2MARK=0)) THEN DO;
    DO OVER NOTE2;
       IF NOTE2=. THEN NOTE2=.N;
       ELSE NOTE2=.C;
    END;
 ELSE IF H13006=. AND N2NMISS=0 THEN N2=8;
 DROP N2NMISS N2MARK N2NN;
/** Note 3 -- H13009,H13010,H13011: regular or routine healthcare **/
 ARRAY Note3 H13010 H13011;
 N3MARK=0;
 N3NMISS=0;
 N3NN=0;
 DO OVER Note3;
    IF Note3 NE . THEN N3NMISS+1;
     IF Note3 NOT IN (.N,.) THEN N3MARK+1;
    IF Note3 EQ .N THEN N3NN+1;
 END;
  IF H13009=1 AND N3NMISS=0 THEN DO;
      N3=1;
  END;
 ELSE IF H13009 IN (1,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
    H13009=2;
    DO OVER Note3;
       IF Note3=. THEN Note3=.N;
       ELSE Note3=.C;
    END;
 ELSE IF H13009=1 AND N3MARK=1 AND N3NN=1 THEN DO;
    DO OVER Note3;
      IF Note3=.N THEN Note3=.;
    END;
    N3 = 3;
  END;
  ELSE IF H13009=1 AND N3MARK>0 THEN DO;
    N3 = 4;
 ELSE IF H13009=2 AND N3MARK=1 AND N3NN=1 THEN DO;
    H13010=.C;
    H13011=.C;
    N3 = 5;
  ELSE IF H13009 IN (2,.) AND N3MARK>0 THEN DO;
    H13009=1;
    N3=6;
    DO OVER Note3;
       IF Note3=.N THEN Note3=.;
    END;
  END;
  ELSE IF H13009=2 AND (N3NMISS=0 OR (N3NMISS>0 AND N3MARK=0)) THEN DO;
    DO OVER Note3;
       IF Note3=. THEN Note3=.N;
```

```
ELSE Note3=.C;
    END;
  END;
 ELSE IF H13009=. AND N3NMISS=0 THEN N3=8;
 DROP N3NMISS N3MARK N3NN;
/** Note 4 -- H13013, H13014-H13018: doctor's office or clinic **/
 ARRAY NOTE4 H13014-H13018;
 N4MARK=0;
 N4NMISS=0;
 DO OVER NOTE4;
    IF NOTE4 NE . THEN N4NMISS+1;
    IF NOTE4 NOT IN (., .N) THEN N4MARK+1;
 IF H13013=1 THEN DO;
    N4=1;
    DO OVER NOTE4;
       IF NOTE4=. THEN NOTE4=.N;
       ELSE NOTE4=.C;
    END;
 ELSE IF H13013 IN (2,3,4,5,6,7,.) AND N4NMISS>0 AND N4MARK=0 THEN DO;
    H13013=1;
    N4 = 2;
    DO OVER NOTE4;
       IF NOTE4=. THEN NOTE4=.N;
       ELSE NOTE4=.C;
    END;
 END;
  ELSE IF H13013 IN (2,3,4,5,6,7) AND (N4NMISS=0 OR N4MARK>0) THEN DO;
    DO OVER NOTE4;
       IF NOTE4=.N THEN NOTE4=.;
    END;
    N4 = 3;
 ELSE IF H13013=. AND N4NMISS=0 THEN N4=4;
 ELSE IF H13013 IN (.) AND N4MARK>0 THEN DO;
    N4 = 5;
    DO OVER NOTE4;
       IF NOTE4=.N THEN NOTE4=.;
    END;
 END;
 DROP N4NMISS N4MARK;
/** Note 5 -- H13015, H13016-H13017: doctor's office or clinic- treatment **/
IF H13015 IN (.N,.C) THEN N5=1;
ELSE IF H13015= 1 THEN N5=2;
ELSE IF H13015 IN (2,.) AND H13016 IN (1,2) THEN DO;
    N5=3;
    H13015=1;
ELSE IF H13015 IN (2,.) AND (H13016 IN (3,4,.) AND H13017 IN (1,2)) THEN DO;
    N5=4;
    H13015=1;
END;
ELSE IF H13015 IN (2) AND (H13016 IN (3,4,.) AND H13017 IN (3,4,.)) THEN DO;
     IF H13016 = . THEN H13016 = .N;
     ELSE H13016 = .C;
    IF H13017 = .THEN H13017 = .N;
    ELSE H13017 = .C;
END;
```

```
ELSE IF H13015 IN (.) AND (H13016 IN (3,4,.) AND H13017 IN (3,4,.)) THEN DO;
    N5 = 6;
END;
/** Note 6 -- H13019, H13020-H13027, S13009: personal doctor **/
/* MER 07/01/09 */
 ARRAY NOTE6 H13021-H13024;
 N6MARK=0;
 DO OVER NOTE6;
   IF NOTE6 NOT IN (., .N) THEN N6MARK+1;
  END;
 IF H13020 NOT IN (0,.) THEN N6MARK+1;
  IF H13019 = 1 THEN DO;
    N6=1;
    IF H13027=.N THEN H13027=.;
 END;
  ELSE IF H13019 in (2,.) AND H13027 in (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
    N6=2;
    H13019=1;
  END;
  ELSE IF H13019 in (2,.) AND N6MARK>0 AND H13027 = . THEN DO;
    H13019=1;
  END;
 ELSE IF H13019 = 2 AND N6MARK>0 AND H13027 = .N THEN DO;
     IF H13020=. THEN H13020=.N;
    ELSE H13020=.C;
    DO OVER NOTE6;
       IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
    END;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
    IF H13026=. THEN H13026=.N;
     ELSE H13026=.C;
    IF S13009=. THEN S13009=.N;
    ELSE S13009=.C;
    H13027=.C;
 END;
  ELSE IF H13019 = 2 AND N6MARK=0 AND H13027 in (.N,.) THEN DO;
    IF H13020=. THEN H13020=.N;
    ELSE H13020=.C;
    DO OVER NOTE6;
       IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
     END;
     IF H13025=. THEN H13025=.N;
    ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
     ELSE H13026=.C;
    IF S13009=. THEN S13009=.N;
    ELSE S13009=.C;
    IF H13027=. THEN H13027=.N;
    ELSE H13027=.C;
 ELSE IF H13019 = . AND H13027 = .N THEN DO; /* MER 07/31/09 combined rows 6 and 7 */
    H13019=2;
     IF H13020=. THEN H13020=.N;
    ELSE H13020=.C;
    DO OVER NOTE6;
       IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
     END;
```

```
IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
     ELSE H13026=.C;
     IF S13009=. THEN S13009=.N;
     ELSE S13009=.C;
    H13027 = .C;
 END;
 ELSE IF H13019 = . AND N6MARK=0 AND H13027 = . THEN N6=7;
 DROP N6MARK;
/** Note 7 -- H13020, H13021-H13026: personal doctor visit **/
 ARRAY NOTE7 H13021-H13024;
 N7MARK=0;
 N7NMISS=0;
 DO OVER NOTE7;
     IF NOTE7 NE . THEN N7NMISS+1;
    IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
  END;
  IF H13020 IN (.N, .C) THEN N7=1;
 ELSE IF H13020=0 THEN DO;
    N7 = 2;
     DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
       ELSE NOTE7=.C;
     END;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
  END;
 ELSE IF \tt H13020 IN (1,2,3,4,5,6,.) AND \tt N7NMISS>0 AND \tt N7MARK=0 THEN DO;
    H13020=0;
     N7 = 3;
     DO OVER NOTE7;
       IF NOTE7=. THEN NOTE7=.N;
       ELSE NOTE7=.C;
     END;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
     ELSE H13026=.C;
 ELSE IF H13020 IN (1,2,3,4,5,6,.) AND (N7NMISS=0 OR N7MARK>0) THEN DO;
    DO OVER NOTE7;
       IF NOTE7=.N THEN NOTE7=.;
     END;
     N7 = 4;
 END;
 DROP N7NMISS N7MARK;
/** Note 8 -- H13025, H13026: care from another doctor or healthcare provider **/
 IF H13025 IN (.N, .C) THEN N8=1;
 ELSE IF H13025=1 THEN N8=2;
 ELSE IF H13025 IN (2,.) AND H13026 IN (1,2,3,4) THEN DO;
    H13025=1;
    N8 = 3;
 END;
 ELSE IF H13025=2 AND H13026 IN (.) THEN DO;
    H13026=.N;
    N8 = 4;
 END;
  ELSE IF H13025=. AND H13026=. THEN N8=5;
```

```
/** Note 8_01 -- S13009, S13010: problem getting new personal doctor or nurse **/
 IF S13009 IN (.N,.C) THEN N8_01=1; /* MER 07/31/09 gave each S13009 value its own row for
analysis purposes */
 ELSE IF S13009=1 THEN DO;
    N8_01=2;
    IF S13010=. THEN S13010=.N;
    ELSE S13010=.C;
 ELSE IF S13009=2 THEN N8_01=3;
 ELSE IF S13009=. THEN N8_01=4; /* MER 07/31/09 eliminated backward coding for missing S13009
/** Note 9 -- H13028, H13029-H13031: needed to see a specialist in last 12 months **/
 ARRAY NOTE9 H13029 H13031;
 N9MARK=0;
 N9NMISS=0;
  DO OVER NOTE9;
    IF NOTE9 NE . THEN N9NMISS+1;
     IF NOTE9 NOT IN (., .N) THEN N9MARK+1;
  END;
  IF H13030 NE . THEN N9NMISS+1;
 IF H13030 NOT IN (.,0) THEN N9MARK+1;
 IF H13028 IN (1) THEN DO;
    N9=1;
    IF H13029=.N THEN H13029=.;
 ELSE IF H13028 in (2,.) AND N9MARK>0 THEN DO;
    N9 = 2;
    H13028=1;
    IF H13029=.N THEN H13029=.;
  END;
  ELSE IF H13028 in (2) THEN DO;
    DO OVER NOTE9;
       IF NOTE9=. THEN NOTE9=.N;
       ELSE NOTE9=.C;
    END;
    IF H13030=. THEN H13030=.N;
    ELSE H13030=.C;
 ELSE IF H13028=. AND N9NMISS>0 AND N9MARK=0 THEN DO;
    H13028=2;
    DO OVER NOTE9;
       IF NOTE9=. THEN NOTE9=.N;
       ELSE NOTE9=.C;
    IF H13030=. THEN H13030=.N;
    ELSE H13030=.C;
 END;
 ELSE IF H13028=. AND N9NMISS=0 THEN N9=5;
 DROP N9NMISS N9MARK;
/** Note 10 -- H13030, H13031: saw a specialist in last 12 months **/
  IF H13030 IN (.N,.C) AND H13031 IN (.N,.C) THEN N10=1;
  ELSE IF H13030 IN (1,2,3,4,5) AND H13031 IN (0,1,2,3,4,5,6,7,8,9,10,.) THEN N10=2;
  ELSE IF H13030 IN (1,2,3,4,5,.) AND H13031 = .N THEN DO;
    N10=3;
    H13030=0;
    H13031=.C;
```

```
END;
 ELSE IF H13030 = 0 THEN DO;
    N10=4;
    IF H13031 = . THEN H13031 = .N;
    ELSE H13031 = .C;
 ELSE IF H13030 = . AND H13031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN N10=5;
/** Note 10_B1 -- S13B02, S13B03-S13B04: overall mental health **/
 ARRAY NOTE10B1 S13B03-S13B04;
 N10B1MARK=0;
 N10B1NMISS=0;
 DO OVER NOTE10B1;
    IF NOTE10B1 NE . THEN N10B1NMISS+1;
     IF NOTE10B1 NOT IN (., .N) THEN N10B1MARK+1;
  IF S13B02 = 1 THEN DO;
    N10 B1=1;
    DO OVER NOTE10B1;
       IF NOTE10B1=.N THEN NOTE10B1=.;
    END;
  END;
  ELSE IF S13B02 IN (2,.) AND (N10B1MARK>0) THEN DO;
    N10_B1=2;
     S13B02=1;
    DO OVER NOTE10B1;
      IF NOTE10B1=.N THEN NOTE10B1=.;
    END;
 END;
 ELSE IF S13B02=2 AND (N10B1NMISS=0 OR (N10B1NMISS > 0 AND N10B1MARK = 0)) THEN DO;
    N10_B1=3;
    DO OVER NOTE10B1;
       IF NOTE10B1 = . THEN NOTE10B1=.N;
       ELSE NOTE10B1 = .C;
    END;
  END;
  ELSE IF S13B02 IN (.) AND (N10B1NMISS > 0 AND N10B1MARK = 0) THEN DO;
    N10_B1=4;
    S13B02=2;
    DO OVER NOTE10B1;
       IF NOTE10B1 = . THEN NOTE10B1=.N;
       ELSE NOTE10B1 = .C;
    END;
 END;
 ELSE IF S13B02 IN (.) AND N10B1NMISS=0 THEN N10 B1=5;
 DROP N10B1NMISS N10B1MARK;
/** Note 11 -- H13032, H13033: tried to get care, tests, or treatment from health plan**/
  IF H13032=1 AND H13033 IN (1,2,3,4,.) THEN N11=1;
 ELSE IF H13032 IN (1,.) AND H13033=.N THEN DO;
    H13032=2;
    H13033= .C;
    N11=2;
  ELSE IF H13032 IN (2,.) AND H13033 IN (1,2,3,4) THEN DO;
    H13032=1;
    N11=3;
 ELSE IF H13032=2 AND H13033 IN (.,.N) THEN DO;
    IF H13033=. THEN H13033=.N;
    ELSE H13033=.C;
    N11=4;
 ELSE IF H13032=. AND H13033=. THEN N11=5;
```

```
/** Note 12 -- \tt H13034, \tt H13035: look for info in written materials or on internet**/
 IF H13034=1 AND H13035 IN (1,2,3,4,.) THEN N12=1;
 ELSE IF H13034 IN (1,.) AND H13035=.N THEN DO;
    N12=2;
    H13034=2;
    H13035=.C;
 END;
 ELSE IF H13034 IN (2,.) AND H13035 IN (1,2,3,4) THEN DO;
    N12=3;
    H13034=1;
 END;
  ELSE IF H13034=2 AND H13035 IN (.N,.) THEN DO;
    N12=4;
    IF H13035=. THEN H13035=.N;
    ELSE H13035=.C;
  END;
 ELSE IF H13034=. AND H13035=. THEN N12=5;
/** Note 13 -- H13036, H13037: tried to get cost of service/equipment from health plan**/
  IF H13036=1 AND H13037 IN (1,2,3,4,.) THEN N13=1;
  ELSE IF H13036 IN (1,.) AND H13037=.N THEN DO;
    H13036=2;
    H13037=.C;
    N13=2;
 END;
 ELSE IF H13036 IN (2,.) AND H13037 IN (1,2,3,4) THEN DO;
    H13036=1;
    N13=3;
 END;
 ELSE IF H13036=2 AND H13037 IN (.,.N) THEN DO;
     IF H13037=. THEN H13037=.N;
    ELSE H13037=.C;
    N13=4;
 END;
 ELSE IF H13036=. AND H13037=. THEN N13=5;
/** Note 14 -- H13038, H13039: tried to get cost of prescription meds from health plan**/
  IF H13038=1 AND H13039 IN (1,2,3,4,.) THEN N14=1;
 ELSE IF H13038 IN (1,.) AND H13039=.N THEN DO;
    H13038=2;
    H13039= C;
    N14=2;
 ELSE IF H13038 IN (2,.) AND H13039 IN (1,2,3,4) THEN DO;
    H13038=1;
    N14=3;
  END;
 ELSE IF H13038=2 AND H13039 IN (.,.N) THEN DO;
    IF H13039=. THEN H13039=.N;
    ELSE H13039=.C;
    N14=4;
 ELSE IF H13038=. AND H13039=. THEN N14=5;
/** Note 15 -- \tt H13040, \tt H13041-H13042: tried to use health plan's customer service **/
 ARRAY NOTE15 H13041-H13042;
 N15MARK=0;
 N15NMISS=0;
  DO OVER NOTE15;
    IF NOTE15 NE . THEN N15NMISS+1;
     IF NOTE15 NOT IN (., .N) THEN N15MARK+1;
  IF H13040 = 1 AND (N15MARK>0 OR N15NMISS=0) THEN DO;
```

```
DO OVER NOTE15;
       IF NOTE15=.N THEN NOTE15=.;
     END;
    N15=1;
 END;
  ELSE IF H13040 IN (1,.) AND (N15NMISS > 0 AND N15MARK = 0) THEN DO;
    N15=2;
    H13040=2;
    DO OVER NOTE15;
       IF NOTE15 = . THEN NOTE15=.N;
       ELSE NOTE15 = .C;
    END;
 ELSE IF H13040 IN (2,.) AND (N15MARK>0) THEN DO;
    H13040=1;
    DO OVER NOTE15;
       IF NOTE15=.N THEN NOTE15=.;
    END;
 ELSE IF \rm H13040=2 AND \rm (N15NMISS=0 OR \rm (N15NMISS>0 AND \rm N15MARK=0)) THEN DO;
    DO OVER NOTE15;
       IF NOTE15 = . THEN NOTE15=.N;
       ELSE NOTE15 = .C;
    END;
 ELSE IF H13040 IN (.) AND N15NMISS=0 THEN N15=5;
 DROP N15NMISS N15MARK;
/** Note 16 -- H13043, H13044: received forms to fill out from health plan **/
 IF H13043=1 AND H13044 IN (1,2,3,4,.) THEN N16=1;
 ELSE IF H13043 IN (1,.) AND H13044=.N THEN DO;
    H13043=2;
    H13044=.C;
    N16=2;
 END;
  ELSE IF H13043 IN (2,.) AND H13044 IN (1,2,3,4) THEN DO;
    H13043=1;
    N16=3;
 END:
 ELSE IF H13043=2 AND H13044 IN (.,.N) THEN DO;
    IF H13044=. THEN H13044=.N;
    ELSE H13044=.C;
    N16=4;
 END;
 ELSE IF H13043=. AND H13044=. THEN N16=5;
/** Note 17 -- H13045, H13046-H13047: claims to health plan **/
 ARRAY NOTE17 H13046-H13047;
 N17MARK=0;
 N17NDK=0;
 DO OVER NOTE17;
    IF NOTE17 NOT IN (.N,.D,.) THEN N17MARK+1; /* At least one is marked */
    IF NOTE17 NOT IN (.,.D) THEN N17NDK+1; /* All are missing or blank or dnk */
  IF H13045=1 AND (N17MARK>0 OR N17NDK=0) THEN DO;
    N17=1;
    DO OVER NOTE17;
       IF NOTE17=.N THEN NOTE17=.;
     END;
  END;
  ELSE IF H13045 IN (1,.,.D) AND N17MARK=0 AND N17NDK>0 THEN DO;
    N17=2;
    H13045=2;
    DO OVER NOTE17;
```

```
IF NOTE17=. THEN NOTE17=.N;
       ELSE NOTE17=.C;
    END;
 END;
 ELSE IF H13045 IN (2,.,.D) AND N17MARK>0
      THEN DO;
    H13045=1;
    N17=3;
    DO OVER NOTE17;
       IF NOTE17=.N THEN NOTE17=.;
 END;
  ELSE IF H13045 IN (2) AND N17MARK=0 THEN DO;
    N17=4;
    DO OVER NOTE17;
       IF NOTE17=. THEN NOTE17=.N;
       ELSE NOTE17=.C;
    END;
 END;
  ELSE IF H13045 IN (.D) AND N17NDK=0 THEN DO;
    N17=5;
    DO OVER NOTE17;
       IF NOTE17=. THEN NOTE17=.N;
       ELSE NOTE17=.C;
    END;
 END;
 ELSE IF H13045 IN (.) AND N17NDK=0 THEN N17=6;
 DROP N17MARK N17NDK;
/** Note 18 -- smoking: H13053, H13054-H13056, H13057A-H13057D **/
 ARRAY NOTE18a H13054 H13055 H13056;
 ARRAY NOTE18b H13057A--H13057D;
 N18MARK = 0;
 DO OVER NOTE18b;
    IF NOTE18b NOT IN (2,.) THEN N18MARK+1;
 END;
  IF H13053 IN (3,4,.) THEN N18=1;
  ELSE IF H13053 IN (2,.D) AND N18MARK = 0 THEN DO;
    N18=2;
    DO OVER NOTE18a;
       IF NOTE18a=. THEN NOTE18a=.N;
       ELSE NOTE18a=.C;
    DO OVER NOTE18b;
       IF NOTE18b IN (2,.) THEN NOTE18b=.N;
       ELSE NOTE18b=.C;
    END;
  ELSE IF H13053 = 2 AND N18MARK > 0 THEN DO;
    N18=3;
    H13053=.;
 END;
 ELSE IF H13053 = .D AND N18MARK > 0 THEN DO;
    N18=4;
    DO OVER NOTE18a;
        IF NOTE18a=. THEN NOTE18a=.N;
       ELSE NOTE18a=.C;
    END;
     DO OVER NOTE18b;
       IF NOTE18b IN (2,.) THEN NOTE18b=.N;
       ELSE NOTE18b=.C;
     END;
  END;
 DROP N18MARK;
```

```
/** Note 19a - gender H13058, SEX, H13059B--H13064,
             XSEXA */
/\! ^* 1/21/98 use SRSEX & responses to gender specific questions
  if there is discrepancy between SRSEX and SEX */
/\!\!\!\!\!^* set imputed FMALE and MALE based on gender specific questions ^*/\!\!\!\!
 ARRAY fmaleval H13059B H13060 H13061 H13062 H13063 H13064
 cntfmale=0;
                             /* mammogram/pap smear/PREGNANT*/
 DO OVER fmaleval;
   IF fmaleval>0 THEN cntfmale=cntfmale+1;
 IF cntfmale>0 THEN FMALE=1;
 ELSE FMALE = 0;
  IF H13058=. THEN DO;
     IF (SEX='F' AND FMALE) THEN DO;
       N19a=1;
       XSEXA=2;
     END;
     ELSE IF (SEX='F' AND FMALE=0) THEN DO;
       N19a=2;
     END;
     ELSE IF (SEX='M' AND FMALE) THEN DO;
       N19a=3;
       XSEXA=1;
     ELSE IF (SEX='M' AND FMALE=0) THEN DO;
       N19a=4;
       XSEXA=1;
     END;
     ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
     END;
     ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
       N19a=6;
       XSEXA=.;
     END;
     ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
       N19a=7;
       XSEXA=.;
     END;
 END;
  ELSE IF (H13058=1) THEN DO;
     IF FMALE=0 THEN DO;
      N19a=8;
       XSEXA=1;
     END;
     ELSE IF FMALE THEN DO;
       IF SEX='F' THEN DO;
          N19a=9;
          XSEXA=2;
        END;
        ELSE DO;
          N19a=10;
          XSEXA=1;
       END;
     END;
 END;
  ELSE IF (H13058=2) THEN DO;
     IF FMALE THEN DO;
      N19a=11;
      XSEXA=2;
     END;
     ELSE IF FMALE=0 THEN DO;
```

```
IF SEX='M' THEN DO;
         N19a=12;
         XSEXA=1;
       END;
       ELSE DO;
          N19a=13;
          XSEXA=2;
       END;
    END;
 END;
/* Note 19b - gender vs mammogram/paps/pregnancy */
  ARRAY NOTE19b H13059B H13060 H13061 H13062 H13063 H13064
  IF XSEXA=1 THEN DO;    /* male */
    IF FMALE=0 THEN DO;
       N19b=1;
       DO OVER NOTE19b;
         NOTE19b=.N;
    END; /* valid skip */
    ELSE IF FMALE=1 THEN DO;
       N19b=2;
       DO OVER NOTE19b;
          IF NOTE19b=. THEN NOTE19b = .N;
          ELSE NOTE19b=.C;
    END; /* inconsistent response */
  END;
 ELSE IF XSEXA=2 THEN N19b=3; /* female */
  ELSE IF XSEXA=. THEN DO; /* missing sex */
    N19b=4;
    DO OVER NOTE19b;
     NOTE19b=.;
    END;
  END;
 DROP FMALE CNTFMALE;
/* Note 20- breast exam for female 40 or over */
  IF XSEXA=1 THEN DO; /* male */
    IF (H13060=.C OR H13060=.N) AND (H13061=.C OR H13061=.N)
    THEN N20 = 1;
 ELSE IF XSEXA=2 THEN DO;
    IF H13060=2 THEN N20=2;
                                   /* female 40 or over */
    ELSE IF H13060=1 THEN DO; /* female < 40 */
       IF H13061 NE . THEN H13061=.C;
       ELSE H13061=.N;
       N20=3;
    ELSE IF H13060=. THEN DO;
       IF H13061 NE . THEN DO;
         H13060=2;
          N20=4;
       END;
       ELSE IF H13061=. THEN DO;
          IF AGE<40 THEN DO;
             H13060 = 1;
             H13061=.N;
             N20=5;
          END;
          ELSE IF AGE >= 40 THEN DO;
             H13060=2;
             N20=6;
          END;
          ELSE IF AGE=. THEN N20=7;
```

```
END;
    END;
 END;
 ELSE IF XSEXA=. THEN N20=8;
/* Note 21 - gender vs Pregnancy */
 IF XSEXA=1 THEN N21=1;
                                 /* male
                                 /* female */
 ELSE IF XSEXA=2 THEN DO;
     IF H13062=1 THEN DO;
                                 /* pregnant */
       IF H13063=1 THEN DO;
          N21=2;
          IF H13064=. THEN H13064 = .N;
           ELSE H13064=.C;
        END;
       ELSE IF H13063=2 AND H13064 IN (2) THEN DO;
          H13064=.;
        END;
       ELSE IF H13063=2 AND H13064 IN (4,3,1,.) THEN DO;
          N21=4;
       END;
       ELSE IF H13063 IN (3,.) THEN N21=5;
     END;
     ELSE IF H13062=2 THEN DO;
       IF H13063 = .N;
       ELSE H13063=.C;
       N21=6;
     END;
    ELSE IF H13062=3 THEN DO;
       N21=7;
       IF H13063 = . THEN H13063 = . N;
       ELSE H13063=.C;
       IF H13064=. THEN H13064=.N;
       ELSE H13064=.C;
    END;
    ELSE IF H13062 IN (.) THEN DO;
        IF H13063=1 THEN DO;
          N21=8;
          H13062=1;
          IF H13064=. THEN H13064 = .N;
          ELSE H13064=.C;
       END;
        ELSE IF H13063=2 AND H13064 IN (2) THEN DO;
          N21=9;
          H13062=1;
          H13064=.;
        END;
        ELSE IF H13063=2 AND H13064 IN (4,3,1,.) THEN DO;
          H13062=1;
          N21=10;
        ELSE IF H13063=3 THEN DO;
          H13062=1;
          N21=11;
        END;
       ELSE IF H13063=. THEN DO;
          N21=12;
        END;
    END;
 ELSE IF XSEXA=. AND H13062 IN (.) THEN N21=13;
 DROP AGE SEX;
/** Note 22 -- H13067, H13068: seen doctor 3 or more times for same condition **/
```

```
ELSE IF H13067 IN (2,.) AND H13068 IN (1,2) THEN DO;
    H13067=1;
    N22=2;
 ELSE IF H13067=2 AND H13068 IN (.) THEN DO;
    N22=3;
 END;
 ELSE IF H13067=. AND H13068=. THEN N22=4;
/** Note 23 -- H13069, H13070: need or take medicine prescribed by a doctor **/
 IF H13069=1 THEN N23=1;
 ELSE IF \mbox{H13069} IN (2,.) AND \mbox{H13070} IN (1,2) THEN \mbox{DO}\mbox{;}
    H13069=1;
    N23=2;
 END;
 ELSE IF H13069=2 AND H13070 IN (.) THEN DO;
    H13070=.N;
    N23=3;
 END;
 ELSE IF H13069=. AND H13070=. THEN N23=4;
/** Note 24 -- H13073, H13073A-H13073E: Hispanic or Latino origin or descent **/
  /* JMA
  ****Multiple responses were given to this question so H13073 is being created
  ****from the multiple responses.;
 IF H13073B=1 THEN DO;
    N24=1;
    H13073=2;
 END;
 ELSE IF H13073E=1 THEN DO;
    N24=2;
    H13073=5;
 END;
 ELSE IF H13073C=1 THEN DO;
    N24=3;
    H13073=3;
 ELSE IF H13073D=1 THEN DO;
    N24=4;
    H13073=4;
 END;
 ELSE IF H13073A=1 THEN DO;
    N24=5;
    H13073=1;
 END;
  ELSE IF H13073A IN (2,.) AND H13073B IN (2,.) AND H13073C IN (2,.) AND
         H13073D IN (2,.) AND H13073E IN (2,.) THEN DO;
     N24=6;
    H13073=.;
 END;
/** Note 25 -- currently covered by Medicare: H13074, H13075-H13079 **/
 ARRAY NOTE25 H13075-H13079;
 N25MARK = 0;
 DO OVER NOTE25;
```

IF H13067=1 THEN N22=1;

```
IF NOTE25 NOT IN (2,.D,.) THEN N25MARK+1;
 END;
  IF H13074 = 1 THEN N25=1;
  ELSE IF H13074 IN (2,.D) AND N25MARK = 0 THEN DO;
     DO OVER NOTE25;
       IF NOTE25=. THEN NOTE25=.N;
       ELSE NOTE25=.C;
     END;
  ELSE IF H13074 IN (2,.D,.) AND N25MARK > 0 THEN DO;
    H13074=1;
  END;
 ELSE IF H13074 = . AND N25MARK = 0 THEN N25=4;
 DROP N25MARK;
NOSURVEY:
/* missing values */
 ARRAY MISS MISS_9 MISS_7 MISS_6 MISS_5 MISS_4 MISS_1;
 MISS_TOT=0;
 DO OVER MISS;
    MISS = 0;
  END;
 ARRAY MISSARAY &VARLIST2.;
  DO OVER MISSARAY;
    IF (MISSARAY EQ -9 ) THEN MISS_9 = MISS_9 + 1;
    ELSE IF (MISSARAY EQ -7) THEN MISS_7 = MISS_7 + 1;
ELSE IF (MISSARAY EQ -6) THEN MISS_6 = MISS_6 + 1;
    ELSE IF (MISSARAY EQ -5) THEN MISS_5 = MISS_5 + 1;
    ELSE IF (MISSARAY EQ -4) THEN MISS_4 = MISS_4 + 1;
    ELSE IF (MISSARAY EQ -1) THEN MISS_1 = MISS_1 + 1;
  END;
  DO OVER MISS;
    MISS_TOT=MISS_TOT + MISS;
OUTPUT;
RUN;
proc contents data=out.cschm13q;
```

F.2.D Q2FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.FMT - Include file for Coding Scheme for Ouarter 2 FY2013.

/* Formats for original answers to survey questions, after variables have been recoded */ FORMAT H13001 H13001_O YN. H13003 H13003_O HPLAN1_. H13004 H13004_O HPTIME. S13J01 S13J01_0 S13J06_O S13J06 S13J08 S13J08_O S13J10 S13J10_0 YN. S13J03 S13J03_0 YNPOL6_. S13J04 S13J04_O YNPOL5_. S13J05_O AMOUNT. S13J05 S13J14 S13J14_O S12J14_. S13AC01 S13AC01_O S13AC03 S13AC03_O YN. S13AC04 S13AC04_O S13AC04_. H13005 H13005 O PLACE. H13006 H13006_O H13009 H13009_O H13019 H13019_O YN. H13007 H13007_O OFTEN2_. H13008 H13008_O TIME1_. H13010 H13010_O OFTEN3_. H13011 H13011_O TIME2_. H13012 H13012_O OFTEN4_. H13013_O OFTEN4_. H13013 H13014 H13014_O OFTEN8_. H13015 H13015_O YN. H13016 H13016_O YNDEF. H13017 H13017 O YNDEF. H13018 H13018_O RATE3_. H13020 H13020_O OFTEN10_. H13021-H13024 H13021_O--H13024_O OFTEN5_. H13025 H13025_O YN. H13026_O OFTEN8_. H13026 H13027_O RATE6_. H13027 S13009 S13009_0 YN. S13010 S13010_O PROB1_. н13028 H13028_O YN. H13029 H13029_O OFTEN9_. H13030_O SPCLST. H13030 H13031_O RATE2_. H13031 S13B01 S13B01_O MNTLHLTH. S13B02 S13B02_O YN. S13B03 S13B03_O PROB1_. S13B04 S13B04_O RATE5_. H13032 H13032_O YN. H13033_O OFTEN11_. H13033 н13034 H13034_O YN.

```
н13035
         H13035_O OFTEN12_.
         H13036_O YN.
H13036
H13037
          H13037_O OFTEN13_.
          H13038_O YN.
н13038
H13039
          H13039_O OFTEN14_.
H13040
          H13040_O YN.
H13041
          H13041_O OFTEN15_.
H13042
          H13042_O OFTEN15_.
          H13043_O YN.
H13043
H13044
          H13044_O OFTEN16_.
          H13045_O YNDNK.
н13045
          H13046_O OFTEN6_.
H13046
H13047
          H13047_O OFTEN6_.
         H13048_O RATE4_.
H13048
H13049
          H13049_O TIME5_.
H13050
          H13050_O YNBP_.
H13051
          H13051_O TIME7_.
          H13052_O YNDNK.
H13052
          H13053_O TIME8_.
H13053
H13054
          H13054_O OFTEN8_.
          H13055_O OFTEN8_.
H13055
H13056
          H13056_O OFTEN8_.
н13058
         H13058_O SEX.
H13059B H13059BO TIME16_.
Н13060 Н13060_О Н13066 Н13066_О
   YN.
Н13061
          H13061_O TIME12_.
          H13062_O YNPREG.
H13062
          H13063_O PREG1_.
H13063
н13064
          H13064_O PREG2_.
         H13065_O HEALTH.
Н13065
H13067
          H13067_O YN.
H13068
          H13068_O YN.
H13069
         H13069_O YN.
H13070
         H13070_O YN.
S13B23
          S13B23_O YN.
          S13B24_O YN.
S13B24
S13B25
          S13B25_O YN.
S13B26
         S13B26_O YN.
H13071F H13071FO
H13071I H13071IO
H13072 H13072_O
  TIME14_.
SREDA
          SREDA_O EDUC.
H13073
                   HISP.
SRAGE
          SRAGE_O AGEGRP.
H13074
          H13074_O YNDNK.
         H13075_O MEDA.
H13076_O MEDB.
H13075
H13076
          H13077_O YNDNK.
H13077
          H13078_O MEDSUPP.
H13078
H13079
          H13079_O YNDNK.
S13011
          S13011_O AGREE2_.
S13014
         S13014_O SATISFY.
MISS_1
         MISS_4-MISS_7 MISS_9 MISS_TOT 4.
;
```

```
LABEL H13001_O='Are you the person listed on envelope'
      H13001 ='Are you the person listed on envelope'
      H13002AO='Health plan(s) covered: TRICARE Prime'
      H13002A = 'Health plan(s) covered: TRICARE Prime'
      H13002CO='Health plan(s) covered: TRICARE Ext/Stnd'
      H13002C = 'Health plan(s) covered: TRICARE Ext/Stnd'
      H13002NO='Health plan(s) covered: TRICARE Plus'
      H13002N = 'Health plan(s) covered: TRICARE Plus'
      H1300200='Health plan(s) covered: TRICARE For Life'
      H130020 = 'Health plan(s) covered: TRICARE For Life'
      H13002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
      H13002P = 'Health plan(s) covered: TRICARE Supplmntl Ins'
      H13002QO='Health plan(s) covered: TRICARE Reserve Select'
      H13002Q ='Health plan(s) covered: TRICARE Reserve Select'
      H13002SO='Health plan(s) covered: TRICARE Retired Reserve'
      H13002S = 'Health plan(s) covered: TRICARE Retired Reserve'
      H13002TO='Health plan(s) covered: TRICARE Young Adult'
      H13002T = 'Health plan(s) covered: TRICARE Young Adult'
      H13002UO='Health plan(s) covered: CHCBP'
      H13002U = 'Health plan(s) covered: CHCBP'
      H13002FO='Health plan(s) covered: Medicare'
      H13002F = 'Health plan(s) covered: Medicare'
      H13002GO='Health plan(s) covered: FEHBP'
      H13002G = 'Health plan(s) covered: FEHBP'
      H13002HO='Health plan(s) covered: Medicaid'
      H13002H = 'Health plan(s) covered: Medicaid'
      H13002IO='Health plan(s) covered: civilian HMO'
      H13002I = 'Health plan(s) covered: civilian HMO'
      H13002JO='Health plan(s) covered: other civilian'
      H13002J = 'Health plan(s) covered: other civilian'
      H13002KO='Health plan(s) covered: USFHP'
      H13002K = 'Health plan(s) covered: USFHP'
      H13002MO='Health plan(s) covered: veterans'
      H13002M = 'Health plan(s) covered: veterans'
      H13002RO='Health plan(s) covered: gov hlth ins-other cntry'
      H13002R = 'Health plan(s) covered: gov hlth ins-other cntry'
      H13002LO='Health plan(s) covered: not sure'
      H13002L = 'Health plan(s) covered: not sure'
      H13003_O='Which health plan did you use most'
      H13003 = 'Which health plan did you use most'
      H13004_O='Yrs in a row with health plan'
      H13004 = 'Yrs in a row with health plan'
      H13005_O='In 1st yr:fclty use most for health care'
      H13005 = 'In 1st yr:fclty use most for health care'
      H13006_O='In lst yr:ill/injry/cond care right away'
      H13006 ='In lst yr:ill/injry/cond care right away'
      H13007_O='In 1st yr:get urgnt care as soon as wntd'
      H13007 ='In 1st yr:get urgnt care as soon as wntd'
      H13008 O='In 1st yr:wait btwn try get care, see prv'
      H13008 ='In lst yr:wait btwn try get care,see prv'
      H13009_O='In lst yr:make appts non-urgnt hlth care'
      H13009 ='In lst yr:make appts non-urgnt hlth care'
      H13010_O='In lst yr:non-urg hlth cre appt whn wntd'
      H13010 = 'In lst yr:non-urg hlth cre appt whn wntd'
      H13011_O='In lst yr:days btwn appt & see prvder'
      H13011 = 'In lst yr:days btwn appt & see prvder'
      H13012_O='In lst yr:go to emrgncy rm for own care'
      H13012 = 'In 1st yr:go to emrgncy rm for own care'
      H13013_O='In lst yr:go to Dr office/clinic for care'
      H13013 ='In lst yr:go to Dr office/clinic for care'
      H13014 ='Lst yr: how often talk to doctor about illness prvntn'
      H13014_O='Lst yr: how often talk to doctor about illness prvntn'
      H13015 = 'Lst yr: did doctor tell you more than 1 choice for trtmnt'
      H13015_O='Lst yr: did doctor tell you more than 1 choice for trtmnt'
      H13016 = 'Lst yr: did talk to doctor about pros/cons of trtmnt'
      H13016_O='Lst yr: did talk to doctor about pros/cons of trtmnt
      H13017 = 'Lst yr: did doctor ask which trtmnt option best for you'
      H13017_O='Lst yr: did doctor ask which trtmnt option best for you'
      H13018_O='Rating of all health care in 1st yr'
      H13018 ='Rating of all health care in 1st yr'
      {\tt H13019\_0='Have} one person think of as personal Dr'
      H13019 = 'Have one person think of as personal Dr'
```

```
H13020 ='Lst yr: how often visit prsnl doctor for care for yourself'
H13020_O='Lst yr: how often visit prsnl doctor for care for yourself'
H13021_O='Lst yr: how oftn Drs listen to you'
H13021 = 'Lst yr: how oftn Drs listen to you'
H13022_O='Lst yr: how oftn Drs explain things'
H13022 = 'Lst yr: how oftn Drs explain things
H13023_O='Lst yr: how oftn Drs show respect'
H13023 = 'Lst yr: how oftn Drs show respect'
H13024_O='Lst yr: how oftn Drs spend enough time'
H13024 = 'Lst yr: how oftn Drs spend enough time'
H13025 = 'Lst yr: did get care from doctor other than prsnl doctor'
H13025_O='Lst yr: did get care from doctor other than prsnl doctor'
H13026 = 'Lst yr: how often prsnl doctor seemed infrmd of care from other doctors'
H13026_O='Lst yr: how often prsnl doctor seemed infrmd of care from other doctors'
H13027_O='Rating of your personal Dr'
H13027 ='Rating of your personal Dr'
H13028 ='Lst yr: did make any appointments to see spclst'
H13028_O='Lst yr: did make any appointments to see spclst'
H13029 ='Lst yr: how often easy to get appointments with spclsts'
H13029_O='Lst yr: how often easy to get appointments with spclsts'
H13030 = 'Lst yr: how many spclsts seen'
H13030_0='Lst yr: how many spclsts seen'
H13031_O='Rating of specialist seen in 1st yr'
H13031 = 'Rating of specialist seen in 1st yr'
H13032 ='Lst yr: did try to get care, test, or trtmnt through health plan'
H13032_O='Lst yr: did try to get care, test, or trtmnt through health plan'
H13033 = 'Lst yr: how often easy to get care, test, or trtmnt'
H13033_O='Lst yr: how often easy to get care, test, or trtmnt'
H13034 = 'Lst yr: did look for info from written material/Internet'
H13034_O='Lst yr: did look for info from written material/Internet'
H13035 = 'Lst yr: how often written material/Internet provide needed info'
H13035_O='Lst yr: how often written material/Internet provide needed info'
H13036 ='Lst yr: did look for info from health plan on cost of service/equipment'
H13036_O='Lst yr: did look for info from health plan on cost of service/equipment'
H13037 = 'Lst yr: how often able to find out cost of service/equipment'
H13037_O='Lst yr: how often able to find out cost of service/equipment'
H13038 ='Lst yr: did look for info from health plan on cost of prescription meds'
H13038_O='Lst yr: did look for info from health plan on cost of prescription meds'
H13039 ='Lst yr: how often able to find out cost of prescription meds'
H13039_O='Lst yr: how often able to find out cost of prescription meds'
H13040 ="Lst yr: did try to get info/help from health plan's cstmr service"
H13040_O="Lst yr: did try to get info/help from health plan's cstmr service"
H13041 = 'Lst yr: how often did cstmr service give needed info/help'
{\tt H13041\_0='Lst~yr:} how often did cstmr service give needed info/help'
H13042 = 'Lst yr: how often did cstmr service treat with courtesy/respect'
H13042_O='Lst yr: how often did cstmr service treat with courtesy/respect'
H13043 ='Lst yr: did health plan give any forms to fill out'
H13043_0='Lst yr: did health plan give any forms to fill out'
H13044 = 'Lst yr: how often were forms easy to fill out'
H13044_O='Lst yr: how often were forms easy to fill out'
H13045 = 'Lst yr: send in any claims'
H13045_O='Lst yr: send in any claims'
H13046 ='Lst yr: how often did health plan handle claims quickly'
H13046_O='Lst yr: how often did health plan handle claims quickly'
H13047_O='Lst yr: how oftn handle claims correctly'
H13047 = 'Lst yr: how oftn handle claims correctly
H13048 ='Rating of all experience with hlth plan'
H13048_O='Rating of all experience with hlth plan'
H13049_O='Blood pressure: when 1st reading'
H13049 = 'Blood pressure: when 1st reading'
H13050_O='Blood pressure: know if too high or not'
H13050 = 'Blood pressure: know if too high or not'
{\tt H13051\_O='When~did~you~lst~have~a~flu~shot'}
H13051 ='When did you lst have a flu shot'
H13052 ='Smoked at least 100 cigarettes in life'
H13052_O='Smoked at least 100 cigarettes in life'
H13053 ='Smoke or use tobacco everyday, some days or not at all'
H13053_O='Smoke or use tobacco everyday, some days or not at all'
H13054_O='Lst yr: how often advised to quit smoking or use tobacco'
H13054 ='Lst yr: how often advised to quit smoking or use tobacco'
H13055 = 'Lst yr: how often recom medic assist quit smoking or using tobacco'
H13055_O='Lst yr: how often recom medic assist quit smoking or using tobacco'
H13056 = 'Lst yr: how often discu meth/strag asst quit smoking or using tobacco'
```

```
H13056_O='Lst yr: how often discu meth/strag asst quit smoking or using tobacco'
H13057A = 'Do you smoke or use: cigarettes'
H13057AO='Do you smoke or use: cigarettes'
H13057B = 'Do you smoke or use: dip, chewing tobacco, snuff, or snus'
H13057BO='Do you smoke or use: dip, chewing tobacco, snuff, or snus'
H13057C = 'Do you smoke or use: cigars'
H13057CO='Do you smoke or use: cigars'
H13057D = 'Do you smoke or use: pipes, bidis, or kreteks'
H13057DO='Do you smoke or use: pipes, bidis, or kreteks'
H13058_O='Are you male or female'
H13058 ='Are you male or female'
H13059BO='Lst have a Pap smear test'
H13059B = 'Lst have a Pap smear test'
H13060_O='Are you under age 40'
H13060 ='Are you under age 40'
H13061_O='Lst time: breasts checked mammography'
H13061 = 'Lst time: breasts checked mammography'
H13062_O='Been pregnant in 1st yr or pregnant now'
H13062 = 'Been pregnant in 1st yr or pregnant now'
H13063_0='In what trimester is your pregnancy'
H13063 ='In what trimester is your pregnancy'
H13064_O='Trimester first received prenatal care'
H13064 ='Trimester first received prenatal care'
H13065_O='In gnrl, how would you rate ovrall hlth'
H13065 = 'In gnrl, how would you rate ovrall hlth'
H13066_O='Impairment/Hlth prblm limit activities'
H13066 = 'Impairment/Hlth prblm limit activities'
H13067 = 'Lst yr: have seen doctor 3 or more times for same condition'
H13067_O='Lst yr: have seen doctor 3 or more times for same condition'
H13068 = 'Has condition lasted for at least 3 months'
H13068_O='Has condition lasted for at least 3 months'
H13069 ='Need to take medicine prescribed by a doctor'
H13069_O='Need to take medicine prescribed by a doctor'
H13070 ='Medicine to treat condition that has lasted for at least 3 months'
H13070_O='Medicine to treat condition that has lasted for at least 3 months'
H13071FO='Height without shoes (feet)'
H13071F = 'Height without shoes (feet)'
H13071IO='Height without shoes (inches)'
H13071I = 'Height without shoes (inches)'
H13072_O='Weight without shoes'
H13072 = 'Weight without shoes'
SREDA_O ='Highest grade completed'
SREDA = 'Highest grade completed'
H13073 = 'Are you Spanish/Hispanic/Latino'
H13073AO='Not Spanish/Hispanic/Latino'
H13073A = 'Not Spanish/Hispanic/Latino'
H13073BO='Mexican, Mexican American, Chicano'
H13073B = 'Mexican, Mexican American, Chicano'
H13073CO='Puerto Rican'
H13073C = 'Puerto Rican'
H13073D0='Cuban'
H13073D = 'Cuban'
H13073EO='Other Spanish, Hispanic, or Latino'
H13073E ='Other Spanish, Hispanic, or Latino'
SRRACEAO='Race: White'
SRRACEA ='Race: White'
SRRACEBO='Race: Black or African American'
SRRACEB ='Race: Black or African American'
SRRACECO='Race: American Indian or Alaska Native'
SRRACEC ='Race: American Indian or Alaska Native'
SRRACEDO='Race: Asian'
SRRACED ='Race: Asian'
SRRACEEO='Race: Native Hawaiian/other Pacific Isl.'
SRRACEE = 'Race: Native Hawaiian/other Pacific Isl.'
SRAGE_O ='What is your age now'
SRAGE ='What is your age now'
H13074 ='Currently Covered Medicare'
H13074_O='Currently Covered Medicare'
H13075 = 'Currently Covered Medicare Part A'
H13075_O='Currently Covered Medicare Part A'
H13076 = 'Currently Covered Medicare Part B'
H13076_O='Currently Covered Medicare Part B'
H13077 = 'Enrolled Medicare Advantage'
```

```
H13077_O='Enrolled Medicare Advantage'
H13078 = 'Currently Covered Medicare Supplemental'
H13078_O='Currently Covered Medicare Supplemental'
H13079 = 'Enrolled Medicare Part D'
H13079_O='Enrolled Medicare Part D'
S13J01_O='Can obtain civilian hlth ins for self'
S13J01 ='Can obtain civilian hlth ins for self'
S13J02AO='Obtain civ cvrg: my current employer'
S13J02A ='Obtain civ cvrg: my current employer'
S13J02B0='Obtain civ cvrg: prev-emplyr COBRA '
S13J02B ='Obtain civ cvrg: prev-emplyr COBRA '
S13J02CO='Obtain civ cvrg: prev-emplyr retirement'
S13J02C ='Obtain civ cvrg: prev-emplyr retirement'
S13J02D0='Obtain civ cvrg: family mem employer'
S13J02D ='Obtain civ cvrg: family mem employer'
S13J02EO='Obtain civ cvrg: fam mem prv-employer COBRA'
S13J02E = 'Obtain civ cvrg: fam mem prv-employer COBRA'
S13J02F0='Obtain civ cvrg: fam mem retirement'
S13J02F = 'Obtain civ cvrg: fam mem retirement'
S13J02G0='Obtain civ cvrg: another organization'
S13J02G ='Obtain civ cvrg: another organization'
S13J02HO='Obtain civ cvrg: government program'
S13J02H ='Obtain civ cvrg: government program'
S13J02IO="Obtain civ cvrg: don't know"
S13J02I ="Obtain civ cvrg: don't know"
S13J03_O="Are you/fam covered by a civilian policy"
S13J03 = "Are you/fam covered by a civilian policy"
S13J04_O="Pay all or part of civilian insrnc premimum"
S13J04 = "Pay all or part of civilian insrnc premimum"
S13J05_O="How much per mnth you/fam pay for coverage"
S13J05 = "How much per mnth you/fam pay for coverage"
S13J06_O="Used civilian coverage in past year"
S13J06 = "Used civilian coverage in past year"
S13J07AO='Not used civ cvrg: not available'
S13J07A ='Not used civ cvrg: not available'
S13J07B0='Not used civ cvrg: better choice of drs with TRICARE'
S13J07B ='Not used civ cvrg: better choice of drs with TRICARE'
S13J07CO="Not used civ cvrg: don't want to pay premium"
S13J07C = "Not used civ cvrg: don't want to pay premium"
S13J07DO='Not used civ cvrg: TRICARE better customer service' S13J07D ='Not used civ cvrg: TRICARE better customer service'
S13J07E0='Not used civ cvrg: benefits are poor'
S13J07E ='Not used civ cvrg: benefits are poor'
S13J07F0='Not used civ cvrg: personal Dr not available'
S13J07F ='Not used civ cvrg: personal Dr not available'
S13J07G0='Not used civ cvrg: always want military hlth care'
S13J07G ='Not used civ cvrg: always want military hlth care'
S13J07HO='Not used civ cvrg: TRICARE costs less'
S13J07H ='Not used civ cvrq: TRICARE costs less'
S13J07IO="Not used civ cvrg: prefer military drs"
S13J07I ="Not used civ cvrg: prefer military drs"
S13J07J0="Not used civ cvrg: prefer military hospitals"
S13J07J ="Not used civ cvrg: prefer military hospitals"
S13J07KO="Not used civ cvrg: have not needed health care"
S13J07K ="Not used civ cvrg: have not needed health care"
S13J07L0="Not used civ cvrg: another reason"
S13J07L ="Not used civ cvrg: another reason"
S13J07MO="Not used civ cvrg: employer bonus"
S13J07M = "Not used civ cvrg: employer bonus"
S13J07NO="Not used civ cvrg: family member employer bonus"
S13J07N = "Not used civ cvrg: family member employer bonus" S13J0700= "Not used civ cvrg: better qlty care thru TRICARE"
S13J070 = "Not used civ cvrg: better glty care thru TRICARE"
S13J08_O="Used TRICARE for non-prscrp drug hlth care"
S13J08 = "Used TRICARE for non-prscrp drug hlth care"
S13J09AO='Not used TRICARE: better choice of civ drs'
S13J09A ='Not used TRICARE: better choice of civ drs'
S13J09B0="Not used TRICARE: don't want to pay premium"
S13J09B = "Not used TRICARE: don't want to pay premium"
S13J09C0='Not used TRICARE: better civ customer service'
S13J09C ='Not used TRICARE: better civ customer service'
S13J09D0='Not used TRICARE: personal Dr not available'
```

```
S13J09D ='Not used TRICARE: personal Dr not available'
S13J09EO='Not used TRICARE: benefits are poor'
S13J09E = 'Not used TRICARE: benefits are poor'
S13J09F0='Not used TRICARE: easier to get civ care'
S13J09F ='Not used TRICARE: easier to get civ care'
S13J09G0='Not used TRICARE: civ plan costs less'
S13J09G ='Not used TRICARE: civ plan costs less'
S13J09HO='Not used TRICARE: no mil fclty near me'
S13J09H ='Not used TRICARE: no mil fclty near me'
S13J09IO="Not used TRICARE: prefer civilian drs"
S13J09I = "Not used TRICARE: prefer civilian drs"
S13J09J0="Not used TRICARE: prefer civilian hospitals"
S13J09J = "Not used TRICARE: prefer civilian hospitals"
S13J09KO="Not used TRICARE: have not needed health care"
S13J09K ="Not used TRICARE: have not needed health care"
S13J09LO="Not used TRICARE: another reason"
S13J09L ="Not used TRICARE: another reason"
S13J10_O="Dropped civ coverage in past year"
S13J10 = "Dropped civ coverage in past year"
S13J13AO="Dropped civ cvrg: lost job"
S13J13A ="Dropped civ cvrg: lost job"
S13J13B0="Dropped civ cvrg: spouse or parent lost job"
S13J13B ="Dropped civ cvrg: spouse or parent lost job"
S13J13C0="Dropped civ cvrg: changed jobs"
S13J13C ="Dropped civ cvrg: changed jobs"
S13J13D0="Dropped civ cvrg: spouse or parent changed jobs"
S13J13D = "Dropped civ cvrg: spouse or parent changed jobs"
S13J13EO="Dropped civ cvrg: retired from job"
S13J13E ="Dropped civ cvrg: retired from job"
S13J13F0="Dropped civ cvrg: spouse or parent retired"
S13J13F = "Dropped civ cvrg: spouse or parent retired"
S13J13GO="Dropped civ cvrg: moved to new location"
S13J13G = "Dropped civ cvrg: moved to new location"
S13J13HO="Dropped civ cvrg: you/spouse/parent became active rsrvst"
S13J13H = "Dropped civ cvrg: you/spouse/parent became active rsrvst"
S13J13IO="Dropped civ cvrq: you/spouse/parent returned to select rsrv"
S13J13I ="Dropped civ cvrg: you/spouse/parent returned to select rsrv"
S13J13J0="Dropped civ cvrg: employer changed plans"
S13J13J = "Dropped civ cvrg: employer changed plans"
S13J13KO="Dropped civ cvrg: found less expensive plan"
S13J13K = "Dropped civ cvrg: found less expensive plan"
S13J13L0="Dropped civ cvrg: married, divorced, or widowed"
S13J13L = "Dropped civ cvrg: married, divorced, or widowed"
S13J13MO="Dropped civ cvrg: went on Medicare"
S13J13M = "Dropped civ cvrg: went on Medicare"
S13J13N0="Dropped civ cvrg: problems with health plan"
S13J13N ="Dropped civ cvrg: problems with health plan"
S13J14_O="Main reason dropped civ cvrg"
S13J14 = "Main reason dropped civ cvrg"
S13AC01 ="Lst yr: missed appointment at this fclty"
S13AC01_0="Lst yr: missed appointment at this fclty"
S13AC02A = "Missed apptmt: forgot about appointment"
S13AC02AO="Missed apptmt: forgot about appointment"
S13AC02B = "Missed apptmt: felt better" S13AC02BO= "Missed apptmt: felt better"
S13AC02C = "Missed apptmt: felt worse"
S13AC02CO="Missed apptmt: felt worse"
S13AC02D = "Missed apptmt: got care somewhere else"
S13AC02D0="Missed apptmt: got care somewhere else"
S13AC02E = "Missed apptmt: scheduling conflict"
S13AC02EO="Missed apptmt: scheduling conflict"
S13AC02F = "Missed apptmt: difficulty getting to fclty"
S13AC02F0="Missed apptmt: difficulty getting to fclty"
S13AC02G = "Missed apptmt: other"
S13AC02GO="Missed apptmt: other"
S13AC03 ="Lst yr: cancel/resched appointment at this fclty"
S13AC03_0="Lst yr: cancel/resched appointment at this fclty"
S13AC04 = "Lst yr: how many appointments cancel/resched"
S13AC04_O="Lst yr: how many appointments cancel/resched"
S13AC05A = "Cncl/resched apptmt: forgot about appointment"
S13AC05AO="Cncl/resched apptmt: forgot about appointment"
S13AC05B = "Cncl/resched apptmt: felt better"
```

```
S13AC05B0="Cncl/resched apptmt: felt better"
S13AC05C = "Cncl/resched apptmt: felt worse"
S13AC05C0="Cncl/resched apptmt: felt worse"
S13AC05D = "Cncl/resched apptmt: got care somewhere else"
S13AC05D0="Cncl/resched apptmt: got care somewhere else"
S13AC05E = "Cncl/resched apptmt: scheduling conflict"
S13AC05EO="Cncl/resched apptmt: scheduling conflict"
S13AC05F = "Cncl/resched apptmt: difficulty getting to fclty"
S13AC05F0="Cncl/resched apptmt: difficulty getting to fclty"
S13AC05G = "Cncl/resched apptmt: other"
S13AC05GO="Cncl/resched apptmt: other"
S13009_O='Same prsnl doctor/nurse before this hlth plan'
S13009 = 'Same prsnl doctor/nurse before this hlth plan'
S13010_O='Prblm getting prsnl doctor/nurse you are happy with'
S13010 ='Prblm getting prsnl doctor/nurse you are happy with'
S13B01_O='Self rate of overall mental/emotional health'
S13B01 ='Self rate of overall mental/emotional health'
S13B02_O='Lst yr: needed treatmnt/cnslng-prsnl prob'
S13B02 = 'Lst yr: needed treatmnt/cnslng-prsnl prob'
S13B03_O='Lst yr: prblm gttng needed treatmnt/cnslng'
S13B03 ='Lst yr: prblm gttng needed treatmnt/cnslng'
S13B04_O='Lst yr: rate of treatmnt/cnslng received'
S13B04 = 'Lst yr: rate of treatmnt/cnslng received'
S13B23_O='Past month: nightmares/thoughts you did not want'
S13B23 = 'Past month: nightmares/thoughts you did not want'
S13B24_O='Past month: tried not to think about or be reminded'
S13B24 ='Past month: tried not to think about or be reminded'
S13B25_O='Past month: constantly on guard, watchful, or startled'
S13B25 = 'Past month: constantly on guard, watchful, or startled'
S13B26_O='Past month: felt numb or detached from others'
S13B26 = 'Past month: felt numb or detached from others'
S13011 ='Agree/disagree: able to see provider when needed'
S13011_0='Agree/disagree: able to see provider when needed'
S13014 = 'How satisfied with health care during last visit'
S13014_O='How satisfied with health care during last visit'
    = "Coding Scheme Note 1"
N1
N1_J1 = "Coding Scheme Note 1_J1"
N1_J2 = "Coding Scheme Note 1_J2"
N1_J3 = "Coding Scheme Note 1_J3"
N1_J4 = "Coding Scheme Note 1_J4"
N1_J5 = "Coding Scheme Note 1_J5"
N1_J6 = "Coding Scheme Note 1_J6"
N1_AC1= "Coding Scheme Note 1_AC1"
N1 AC2= "Coding Scheme Note 1 AC2"
N1_AC3= "Coding Scheme Note 1_AC3"
    = "Coding Scheme Note 2"
     = "Coding Scheme Note 3"
N3
N4
     = "Coding Scheme Note 4"
N5
     = "Coding Scheme Note 5"
     = "Coding Scheme Note 6"
N6
     = "Coding Scheme Note 7"
     = "Coding Scheme Note 8"
N8
N8_01 = "Coding Scheme Note 8_01"
   = "Coding Scheme Note 9"
И9
N10
     = "Coding Scheme Note 10"
N10_B1= "Coding Scheme Note 10_B1"
N11 = "Coding Scheme Note 11"
    = "Coding Scheme Note 12"
N12
     = "Coding Scheme Note 13"
N13
     = "Coding Scheme Note 14"
N14
     = "Coding Scheme Note 15"
N15
N16
     = "Coding Scheme Note 16"
     = "Coding Scheme Note 17"
N17
N18
     = "Coding Scheme Note 18"
N19A = "Coding Scheme Note 19A"
N19B = "Coding Scheme Note 19B"
     = "Coding Scheme Note 20"
```

```
N21 = "Coding Scheme Note 21"
N22 = "Coding Scheme Note 22"
N23 = "Coding Scheme Note 23"
N24 = "Coding Scheme Note 24"
N25 = "Coding Scheme Note 25"

MISS_1 = "Count of: violates skip pattern"
/*MISS_3 = "Count of: do not use other tobacco products response"*/
MISS_4 = "Count of: incomplete grid error"
MISS_5 = "Count of: scalable reponse of don't know"
MISS_6 = "Count of: not applicable - valid skip"
MISS_7 = "Count of: out-of-range error"
MISS_9 = "Count of: no response - invalid skip"
MISS_TOT = "Total number of missing responses"
XSEXA = "Male or Female - R"
```

F-65

F.2.E Q3FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.SAS - Implement Coding Scheme and Coding Tables for Ouarter 3 FY2013.

```
*************************
  Program: Cschm13q.sas
  Written: 06/04/2001
   Author: C. Rankin
    Input: MERGESYN.sas7bdat - Merged MPR Sampling, DEERS, and Synovate Response Data
   Output: CSCHM13Q.sas7bdat - Coding scheme file
* Modified: 9/20/2001 - Recodes removed (stored in recodes_old.sas)
           10/31/2001 - Revised notes 16 and 17 (became notes 26 and 27)
            3/22/2002 - Updated Variable names for Q1 2002 and added
                        Include file RENAME.SAS to change the variable
                        names from 01 to 02. Skipping 01 designation to make
                        survey reflect year of fielding
            5/09/2002 - Change to logic in TFL supplement
            3/17/2003 - Updated Variables names for Q1 2003 4/11/2003 - Added note 19a to accomodate Q1 2003 error where
                        an option on most of the questionnaires was omitted for
                        H03062
            3/28/2008 - Updated Variable names for Q2 FY 2008
           12/14/2009 - Updated Variable names for Q1 FY 2010
           12/01/2010 - Updated Variable names for Q1 FY 2011
           12/09/2011 - Updated Variable names for Q1 FY 2012
           12/15/2012 - Updated Variable names for Q1 FY 2013
           12/15/2012 - Removed logic for handling check boxes for height and
                        weight variables. Also no longer have to convert the
                        weight variable from character to numeric
           12/21/2012 - Added code on line 146 to correct out of range height (in)
 Purpose: Apply Coding Scheme Specifications to DoD Health Care Survey
            Response Data, check for consistency in responses and skip
            patterns
  Include
    files: Cschm13q.fmt
OPTIONS PS=80 LS=120 NOCENTER COMPRESS=YES PAGENO=1 SOURCE SOURCE2 VARLENCHK=NOWARN;
*OPTIONS OBS=100;
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
LIBNAME IN
                  "..\..\DATA\AFINAL";
                  "..\.\DATA\AFINAL";
LIBNAME OUT
%LET INDATA=MERGESYN;
%LET OUTDATA=CSCHM13q;
%LET PERIOD=April, 2012 to March, 2013;
/* Variable names in survey -- become recoded varibles */
%Let varlist1 =
H13001 H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
H13003 H13004
H13005 H13006 H13007 H13008 H13009 H13010 H13011 H13012 H13013 H13014
H13015 H13016 H13017 H13018
S13C09 S13C10 S13C11 S13C12 S13C13 S13C14
H13019 H13020 H13021 H13022 H13023 H13024 H13025 H13026 H13027
S13009 S13010
H13028 H13029 H13030 H13031
S13B01 S13B02 S13B03 S13B04
H13032 H13033 H13034 H13035 H13036 H13037 H13038 H13039 H13040 H13041
H13042 H13043 H13044 H13045 H13046 H13047 H13048 H13049 H13050
S13Q08 S13Q01 S13Q02 S13Q03 S13Q04 S13Q05
H13051 H13052 H13053 H13054 H13055 H13056 H13057A H13057B H13057C H13057D H13058
H13059B H13060 H13061 H13062 H13063 H13064 H13065 H13066 H13067 H13068
H13069 H13070
 S13B23 S13B24 S13B25 S13B26
```

```
H13071F H13071I H13072
SREDA H13073A H13073B H13073C H13073D H13073E
SRRACEA SRRACEB SRRACEC SRRACED SRRACEE SRAGE
H13074 H13075 H13076 H13077 H13078 H13079
S13011 S13014
/* _O variables are the original values from the survey response */
%Let varlist2 =
H13001_O H13002AO H13002CO H13002NO H13002OO H13002PO H13002QO H13002SO H13002TO H13002UO
H13002FO H13002GO H13002HO H13002IO H13002JO H13002KO H13002MO H13002RO H13002LO
H13003_O H13004_O
H13005_O H13006_O H13007_O H13008_O H13009_O H13011_O H13011_O H13012_O H13013_O H13014_O
Н13015_О Н13016_О Н13017_О Н13018_О
S13C09_O S13C10_O S13C11_O S13C12_O S13C13_O S13C14_O
H13019_O H13020_O H13021_O H13022_O H13023_O H13024_O H13025_O H13026_O H13027_O
S13009_O S13010_O
H13028_O H13029_O H13030_O H13031_O
S13B01_0 S13B02_0 S13B03_0 S13B04_0
H13032_O H13033_O H13034_O H13035_O H13036_O H13037_O H13038_O H13039_O H13040_O H13041_O
H13042_O H13043_O H13044_O H13045_O H13046_O H13047_O H13048_O H13049_O H13050_O
S13Q08_O S13Q01_O S13Q02_O S13Q03_O S13Q04_O S13Q05_O
H13051_O H13052_O H13053_O H13054_O H13055_O H13056_O H13057AO H13057BO H13057CO H13057DO
H13058 O
H13059BO H13060_O H13061_O H13062_O H13063_O H13064_O H13065_O H13066_O H13067_O H13068_O
H13069_O H13070_O
S13B23_O S13B24_O S13B25_O S13B26_O
H13071FO H13071IO H13072_O
SREDA_O H13073AO H13073BO H13073CO H13073DO H13073EO
SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO SRAGE_O
H13074_O H13075_O H13076_O H13077_O H13078_O H13079_O
S13011_0 S13014_0
TITLE "DoD 2013 Survey Form A -- &PERIOD";
TITLE2 "Apply Coding Scheme";
DATA MERGESYN;
 SET IN.MERGESYN;
* Code added by Jacqueline Agufa 09/15/2004 to fix name of race variable;
************************
 RENAME SRACEA = SRRACEA;
 RENAME SRACEB = SRRACEB;
 RENAME SRACEC = SRRACEC;
 RENAME SRACED = SRRACED;
 RENAME SRACEE = SRRACEE;
 *** Correct odd height and weights Per Eric Schone;
 IF H13071F NOT IN (-9,.) THEN DO;
   IF H13071F < 2 OR
     H13071F >= 8
   THEN H13071F= -7;
 END:
 IF H13071I NOT IN (-9,.) THEN DO;
  IF H13071I > 11 then H13071I=-7;
 END;
 IF 0 <= H13072 < 40 OR
   H13072 > 500
 THEN H13072= -7;
```

```
RUN;
DATA OUT.CSCHM13q;
  LENGTH &VARLIST1. &VARLIST2. 4. MPRID $8.;
  INFORMAT &VARLIST2. 4.;
  %INCLUDE "CSCHM13q.FMT";
/* label and format statements for original variables */
  SET MERGESYN;
**** Recodes for invalid responses:**************************;
**************************************
/* This is a version of the coding scheme and coding tables for the
   FY 2013 HCSDB Form A.
  The following tables outline the coding of screening questions (skip),
   and subsequent items to be answered (or not answered in a series {\bf r}
   following a skip question.) */
/* First set up new variables that capture the original values */
/* recode the initial numeric values to the SAS numeric values */
/* specified in the coding scheme
 SEX=PNSEXCD;
 AGE=INPUT(DAGEQY,8.);
 ARRAY RECODE(*) &VARLIST1;
 ARRAY ORIG(*) &VARLIST2;
 DO I = 1 to DIM(ORIG);
     ORIG(I) = RECODE(I);
      IF ORIG(I) < 0 THEN DO;</pre>
              IF ORIG(I) = -9 THEN RECODE(I) = .;
         ELSE IF ORIG(I) = -7 THEN RECODE(I) = .O;
         ELSE IF ORIG(I) = -6 THEN RECODE(I) = .N;
         ELSE IF ORIG(I) = -5 THEN RECODE(I) = .D;
        ELSE IF ORIG(I) = -4 THEN RECODE(I) = .I;
        ELSE IF ORIG(I) = -1 THEN RECODE(I) = .C;
     END;
 END;
 DROP I;
/* recode selected responses to be 1=marked, 2=unmarked */
 ARRAY
         MARKED(*)
         H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
         H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
         H13057A H13057B H13057C H13057D
         H13073A H13073B H13073C H13073D H13073E
         SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
          ;
  ARRAY INFORMAT(*)
         H13002AO H13002CO H13002NO H13002OO H13002PO H13002QO H13002SO H13002TO H13002UO
         H13002FO H13002GO H13002HO H13002IO H13002JO H13002KO H13002MO H13002RO H13002LO
         H13057AO H13057BO H13057CO H13057DO
```

```
H13073AO H13073BO H13073CO H13073DO H13073EO
         SRRACEAO SRRACEBO SRRACECO SRRACEDO SRRACEEO
 DO J=1 TO DIM(INFORMAT);
    IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
    ELSE MARKED(J)=2;
 END;
 DROP J;
 FORMAT
         H13002A H13002C H13002N H13002O H13002P H13002Q H13002S H13002T H13002U
         H13002F H13002G H13002H H13002I H13002J H13002K H13002M H13002R H13002L
         H13057A H13057B H13057C H13057D
         H13073A H13073B H13073C H13073D H13073E
         SRRACEA SRRACEB SRRACEC SRRACED SRRACEE
         MARKED.;
/* skip coding scheme for all surveys not returned **/
IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;
/** Note 1 -- H13003, H13004 health plan usage **/
 IF H13003 > 0 OR H13003 =.D THEN N1=1;
 ELSE IF H13003=.N THEN DO;
    IF H13004 NOT=. THEN DO;
       N1 = 2;
      H13004=.C;
    END;
    ELSE DO;
       N1=3;
       H13004=.N;
    END;
 END;
 ELSE IF H13003=. THEN N1=4;
/** Note 2 -- H13006, H13007, H13008: illness or injury **/
 ARRAY NOTE2 H13007 H13008;
 N2MARK=0;
 N2NMISS=0;
 N2NN=0;
 DO OVER NOTE2;
    IF NOTE2 NE . THEN N2NMISS+1;
    IF NOTE2 NOT IN (.N,.) THEN N2MARK+1;
    IF NOTE2 EQ .N THEN N2NN+1;
 END;
 IF H13006=1 AND N2NMISS=0 THEN DO;
      N2=1;
 END;
 ELSE IF H13006 IN (1,.) AND N2NMISS>0 AND N2MARK=0 THEN DO;
    H13006=2;
    N2=2;
    DO OVER NOTE2;
```

IF NOTE2=. THEN NOTE2=.N;

```
ELSE NOTE2=.C;
    END;
 END;
 ELSE IF H13006=1 AND N2MARK=1 AND N2NN=1 THEN DO;
    DO OVER NOTE2;
       IF NOTE2=.N THEN NOTE2=.;
    END:
    N2 = 3;
 END;
 ELSE IF H13006=1 AND N2MARK>0 THEN DO;
    N2 = 4;
 END;
 ELSE IF H13006=2 AND N2MARK=1 AND N2NN=1 THEN DO;
    H13007= .C;
    H13008=.C;
    N2=5i
 END;
 ELSE IF H13006 IN (2,.) AND N2MARK>0 THEN DO;
    H13006=1;
    DO OVER NOTE2;
      IF NOTE2=.N THEN NOTE2=.;
    END;
 END;
 ELSE IF H13006=2 AND (N2NMISS=0 OR (N2NMISS>0 AND N2MARK=0)) THEN DO;
    N2 = 7;
    DO OVER NOTE2;
        IF NOTE2=. THEN NOTE2=.N;
       ELSE NOTE2=.C;
    END;
 END;
 ELSE IF H13006=. AND N2NMISS=0 THEN N2=8;
 DROP N2NMISS N2MARK N2NN;
/** Note 3 -- H13009, H13010, H13011: regular or routine healthcare **/
 ARRAY Note3 H13010 H13011;
 N3MARK=0;
 N3NMISS=0;
 N3NN=0;
 DO OVER Note3;
    IF Note3 NE . THEN N3NMISS+1;
    IF Note3 NOT IN (.N,.) THEN N3MARK+1;
    IF Note3 EQ .N THEN N3NN+1;
 END;
 IF H13009=1 AND N3NMISS=0 THEN DO;
 ELSE IF H13009 IN (1,.) AND N3NMISS>0 AND N3MARK=0 THEN DO;
    H13009=2;
    N3 = 2;
    DO OVER Note3;
       IF Note3=. THEN Note3=.N;
       ELSE Note3=.C;
    END;
 END;
 ELSE IF H13009=1 AND N3MARK=1 AND N3NN=1 THEN DO;
    DO OVER Note3;
      IF Note3=.N THEN Note3=.;
    END;
    N3 = 3;
 END;
 ELSE IF H13009=1 AND N3MARK>0 THEN DO;
    N3 = 4;
 END;
 ELSE IF H13009=2 AND N3MARK=1 AND N3NN=1 THEN DO;
    H13010=.C;
    H13011=.C;
```

```
N3 = 5;
 END;
 ELSE IF H13009 IN (2,.) AND N3MARK>0 THEN DO;
    H13009=1;
    N3=6;
    DO OVER Note3;
       IF Note3=.N THEN Note3=.;
 END;
 ELSE IF H13009=2 AND (N3NMISS=0 OR (N3NMISS>0 AND N3MARK=0)) THEN DO;
    N3 = 7;
    DO OVER Note3;
       IF Note3=. THEN Note3=.N;
       ELSE Note3=.C;
    END;
 END;
  ELSE IF H13009=. AND N3NMISS=0 THEN N3=8;
 DROP N3NMISS N3MARK N3NN;
/** Note 4 -- H13013, H13014-H13018: doctor's office or clinic **/
 ARRAY NOTE4 H13014-H13018;
 N4MARK=0;
 N4NMISS=0;
 DO OVER NOTE4;
     IF NOTE4 NE . THEN N4NMISS+1;
    IF NOTE4 NOT IN (., .N) THEN N4MARK+1;
 END;
 IF H13013=1 THEN DO;
    N4=1;
    DO OVER NOTE4;
       IF NOTE4=. THEN NOTE4=.N;
       ELSE NOTE4=.C;
    END;
 END;
 ELSE IF H13013 IN (2,3,4,5,6,7,.) AND N4NMISS>0 AND N4MARK=0 THEN DO;
    H13013=1;
    N4 = 2;
    DO OVER NOTE4;
       IF NOTE4=. THEN NOTE4=.N;
       ELSE NOTE4=.C;
    END;
 ELSE IF H13013 IN (2,3,4,5,6,7) AND (N4NMISS=0 OR N4MARK>0) THEN DO;
    DO OVER NOTE4;
       IF NOTE4=.N THEN NOTE4=.;
    END;
    N4 = 3;
 END;
 ELSE IF H13013=. AND N4NMISS=0 THEN N4=4;
 ELSE IF H13013 IN (.) AND N4MARK>0 THEN DO;
    N4=5;
    DO OVER NOTE4;
       IF NOTE4=.N THEN NOTE4=.;
    END;
 END;
 DROP N4NMISS N4MARK;
/** Note 5 -- H13015, H13016-H13017: doctor's office or clinic- treatment **/
IF H13015 IN (.N,.C) THEN N5=1;
ELSE IF H13015= 1 THEN N5=2;
ELSE IF H13015 IN (2,.) AND H13016 IN (1,2) THEN DO;
    N5=3;
```

```
END;
ELSE IF H13015 IN (2,.) AND (H13016 IN (3,4,.) AND H13017 IN (1,2)) THEN DO;
    N5=4;
    H13015=1;
ELSE IF H13015 IN (2) AND (H13016 IN (3,4,.) AND H13017 IN (3,4,.)) THEN DO;
     IF H13016 = . THEN H13016 = .N;
     ELSE H13016 = .C;
     IF H13017 = . THEN H13017 = .N;
     ELSE H13017 = .C;
ELSE IF H13015 IN (.) AND (H13016 IN (3,4,.) AND H13017 IN (3,4,.)) THEN DO;
END;
/** Note 5A1 -- S13C09, S13C10: special medical equipment **/
 IF $13C09 = 1 \text{ AND } $13C10 \text{ IN } (1,2,3,.) \text{ THEN } $N5A1=1$;}
 ELSE IF $13C09 IN (1,.) AND $13C10 = .N THEN DO;
    N5A1=2;
    S13C09=2;
    S13C10=.C;
  ELSE IF S13C09 IN (2,.) AND S13C10 IN (1,2,3) THEN DO;
     S13C09=1;
  END;
 ELSE IF S13C09 = 2 AND S13C10 IN (.N,.) THEN DO;
     IF $13C10 = . THEN $13C10 = .N;
    ELSE S13C10 = .C;
 END;
 ELSE IF S13C09 = . AND S13C10 = . THEN N5A1=5;
/** Note 5A2 -- S13C11, S13C12: special therapy **/
  IF S13C11 = 1 AND S13C12 IN (1,2,3,.) THEN N5A2=1;
 ELSE IF S13C11 IN (1,.) AND S13C12 = .N THEN DO;
    N5A2=2;
    S13C11=2;
    S13C12=.C;
 ELSE IF S13C11 IN (2,.) AND S13C12 IN (1,2,3) THEN DO;
    N5A2=3;
    S13C11=1;
 END;
 ELSE IF $13C11 = 2 AND $13C12 IN (.N,.) THEN DO;
     IF S13C12 = . THEN S13C12 = .N;
    ELSE S13C12 = .C;
 ELSE IF S13C11 = . AND S13C12 = . THEN N5A2=5;
/** Note 5A3 -- S13C13, S13C14: home health care **/
 IF S13C13 = 1 AND S13C14 IN (1,2,3,.) THEN N5A3=1;
 ELSE IF S13C13 IN (1,.) AND S13C14 = .N THEN DO;
    N5A3=2;
     S13C13=2;
     S13C14=.C;
  ELSE IF S13C13 IN (2,.) AND S13C14 IN (1,2,3) THEN DO;
    N5A3=3;
    S13C13=1;
  END;
```

H13015=1;

```
ELSE IF $13C13 = 2 AND $13C14 IN (.N,.) THEN DO;
    N5A3=4;
    IF S13C14 = . THEN S13C14 = .N;
    ELSE S13C14 = .C;
 END;
 ELSE IF S13C13 = . AND S13C14 = . THEN N5A3=5;
/** Note 6 -- H13019, H13020-H13027, S13009: personal doctor **/
/* MER 07/01/09 */
 ARRAY NOTE6 H13021-H13024;
 N6MARK=0;
 DO OVER NOTE6;
    IF NOTE6 NOT IN (., .N) THEN N6MARK+1;
 IF H13020 NOT IN (0,.) THEN N6MARK+1;
 IF H13019 = 1 THEN DO;
    N6=1;
    IF H13027=.N THEN H13027=.;
 ELSE IF H13019 in (2,.) AND H13027 in (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
    H13019=1;
 END;
 ELSE IF H13019 in (2,.) AND N6MARK>0 AND H13027 = . THEN DO;
    N6=3;
    H13019=1;
 END;
 ELSE IF H13019 = 2 AND N6MARK>0 AND H13027 = .N THEN DO;
    N6=4;
    IF H13020=. THEN H13020=.N;
    ELSE H13020=.C;
    DO OVER NOTE6;
       IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
    END;
    IF H13025=. THEN H13025=.N;
    ELSE H13025=.C;
    IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
    IF S13009=. THEN S13009=.N;
    ELSE S13009=.C;
    H13027=.C;
 END;
 ELSE IF H13019 = 2 AND N6MARK=0 AND H13027 in (.N,.) THEN DO;
    N6=5;
    IF H13020=. THEN H13020=.N;
    ELSE H13020=.C;
    DO OVER NOTE6;
       IF NOTE6=. THEN NOTE6=.N;
       ELSE NOTE6=.C;
    END;
    IF H13025=. THEN H13025=.N;
    ELSE H13025=.C;
    IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
    IF S13009=. THEN S13009=.N;
    ELSE S13009=.C;
    IF H13027=. THEN H13027=.N;
    ELSE H13027=.C;
 END;
 ELSE IF \rm H13019 = . AND \rm H13027 = .N THEN DO; /* MER \rm 07/31/09 combined rows 6 and 7 */
    N6=6;
    H13019=2;
    IF H13020=. THEN H13020=.N;
    ELSE H13020=.C;
```

```
DO OVER NOTE6;
        IF NOTE6=. THEN NOTE6=.N;
        ELSE NOTE6=.C;
     END;
     IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
    IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
    IF S13009=. THEN S13009=.N;
     ELSE S13009=.C;
    H13027=.C;
 END;
 ELSE IF H13019 = . AND N6MARK=0 AND H13027 = . THEN N6=7;
 DROP N6MARK;
/** Note 7 -- H13020, H13021-H13026: personal doctor visit **/
 ARRAY NOTE7 H13021-H13024;
 N7MARK=0;
 N7NMISS=0;
 DO OVER NOTE7;
    IF NOTE7 NE . THEN N7NMISS+1;
     IF NOTE7 NOT IN (., .N) THEN N7MARK+1;
 END;
  IF H13020 IN (.N, .C) THEN N7=1;
 ELSE IF H13020=0 THEN DO;
    N7 = 2;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
       ELSE NOTE7=.C;
    END;
     IF H13025=. THEN H13025=.N;
    ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
 END;
 ELSE IF H13020 IN (1,2,3,4,5,6,.) AND N7NMISS>0 AND N7MARK=0 THEN DO;
    H13020=0;
    N7 = 3;
    DO OVER NOTE7;
        IF NOTE7=. THEN NOTE7=.N;
       ELSE NOTE7=.C;
    END;
    IF H13025=. THEN H13025=.N;
     ELSE H13025=.C;
     IF H13026=. THEN H13026=.N;
    ELSE H13026=.C;
  END;
  ELSE IF H13020 IN (1,2,3,4,5,6,.) AND (N7NMISS=0 OR N7MARK>0) THEN DO;
    DO OVER NOTE7;
       IF NOTE7=.N THEN NOTE7=.;
    END;
    N7 = 4;
 END;
 DROP N7NMISS N7MARK;
/** Note 8 -- \rm H13025, \rm H13026: care from another doctor or healthcare provider **/
  IF H13025 IN (.N, .C) THEN N8=1;
 ELSE IF H13025=1 THEN N8=2;
 ELSE IF H13025 IN (2,.) AND H13026 IN (1,2,3,4) THEN DO;
    H13025=1;
    N8 = 3;
 END;
 ELSE IF H13025=2 AND H13026 IN (.) THEN DO;
```

```
H13026=.N;
    N8 = 4;
 END;
 ELSE IF H13025=. AND H13026=. THEN N8=5;
/** Note 8_01 -- S13009, S13010: problem getting new personal doctor or nurse **/
 IF S13009 IN (.N,.C) THEN N8_01=1; /* MER 07/31/09 gave each S13009 value its own row for
analysis purposes */
 ELSE IF S13009=1 THEN DO;
    N8_01=2;
    IF S13010=. THEN S13010=.N;
    ELSE S13010=.C;
 END;
 ELSE IF S13009=2 THEN N8_01=3;
 ELSE IF S13009=. THEN N8_01=4; /* MER 07/31/09 eliminated backward coding for missing S13009
/** Note 9 -- H13028, H13029-H13031: needed to see a specialist in last 12 months **/
 ARRAY NOTE9 H13029 H13031;
 N9MARK=0;
 N9NMISS=0;
 DO OVER NOTE9;
    IF NOTE9 NE . THEN N9NMISS+1;
    IF NOTE9 NOT IN (., .N) THEN N9MARK+1;
  END;
 IF H13030 NE . THEN N9NMISS+1;
 IF H13030 NOT IN (.,0) THEN N9MARK+1;
 IF H13028 IN (1) THEN DO;
    N9=1;
    IF H13029=.N THEN H13029=.;
 END;
 ELSE IF H13028 in (2,.) AND N9MARK>0 THEN DO;
    N9 = 2;
    H13028=1;
    IF H13029=.N THEN H13029=.;
 END;
 ELSE IF H13028 in (2) THEN DO;
    N9 = 3;
    DO OVER NOTE9;
       IF NOTE9=. THEN NOTE9=.N;
       ELSE NOTE9=.C;
    END;
     IF H13030=. THEN H13030=.N;
    ELSE H13030 = .Ci
 END;
 ELSE IF H13028=. AND N9NMISS>0 AND N9MARK=0 THEN DO;
    N9 = 4;
    H13028=2;
    DO OVER NOTE9;
       IF NOTE9=. THEN NOTE9=.N;
       ELSE NOTE9=.C;
    END;
    IF H13030=. THEN H13030=.N;
    ELSE H13030=.C;
 ELSE IF H13028=. AND N9NMISS=0 THEN N9=5;
 DROP N9NMISS N9MARK;
/** Note 10 -- H13030, H13031: saw a specialist in last 12 months **/
 IF H13030 IN (.N,.C) AND H13031 IN (.N,.C) THEN N10=1;
 ELSE IF H13030 IN (1,2,3,4,5) AND H13031 IN (0,1,2,3,4,5,6,7,8,9,10,.) THEN N10=2;
```

```
ELSE IF H13030 IN (1,2,3,4,5,..) AND H13031 = .N THEN DO;
    N10=3;
    H13030=0;
    H13031=.C;
 END;
  ELSE IF H13030 = 0 THEN DO;
    N10=4:
    IF H13031 = . THEN H13031 = .N;
    ELSE H13031 = .C;
 END;
 ELSE IF H13030 = . AND H13031 IN (0,1,2,3,4,5,6,7,8,9,10,..) THEN N10=5;
/** Note 10_B1 -- S13B02, S13B03-S13B04: overall mental health **/
 ARRAY NOTE10B1 S13B03-S13B04;
 N10B1MARK=0;
 N10B1NMISS=0;
 DO OVER NOTE10B1;
    IF NOTE10B1 NE . THEN N10B1NMISS+1;
    IF NOTE10B1 NOT IN (., .N) THEN N10B1MARK+1;
  END;
 IF S13B02 = 1 THEN DO;
    N10 B1=1;
    DO OVER NOTE10B1;
       IF NOTE10B1=.N THEN NOTE10B1=.;
    END:
  END;
 ELSE IF S13B02 IN (2,.) AND (N10B1MARK>0) THEN DO;
    N10_B1=2;
     S13B02=1;
    DO OVER NOTE10B1;
       IF NOTE10B1=.N THEN NOTE10B1=.;
    END;
 END;
 ELSE IF $13802=2 AND (N1081NMISS=0 OR (N1081NMISS>0 AND N1081MARK=0)) THEN DO;
    N10_B1=3;
     DO OVER NOTE10B1;
        IF NOTE10B1 = . THEN NOTE10B1=.N;
       ELSE NOTE10B1 = .C;
    END;
 END;
 ELSE IF S13B02 IN (.) AND (N10B1NMISS > 0 AND N10B1MARK = 0) THEN DO;
    N10_B1=4;
     S13B02=2;
    DO OVER NOTE10B1;
       IF NOTE10B1 = . THEN NOTE10B1=.N;
       ELSE NOTE10B1 = .C;
 END;
 ELSE IF S13B02 IN (.) AND N10B1NMISS=0 THEN N10_B1=5;
 DROP N10B1NMISS N10B1MARK;
/** Note 11 -- H13032, H13033: tried to get care, tests, or treatment from health plan**/
  IF H13032=1 AND H13033 IN (1,2,3,4,.) THEN N11=1;
 ELSE IF H13032 IN (1,.) AND H13033=.N THEN DO;
    H13032=2;
    H13033=.C;
    N11=2;
  END;
 ELSE IF H13032 IN (2,.) AND H13033 IN (1,2,3,4) THEN DO;
    N11=3;
 END;
 ELSE IF H13032=2 AND H13033 IN (.,.N) THEN DO;
    IF H13033=. THEN H13033=.N;
    ELSE H13033=.C;
```

```
N11=4;
 END;
 ELSE IF H13032=. AND H13033=. THEN N11=5;
/** Note 12 -- \tt H13034, \tt H13035: look for info in written materials or on internet**/
 IF \mbox{H13034=1} AND \mbox{H13035} IN (\mbox{1,2,3,4,.}) THEN \mbox{N12=1;}
 ELSE IF H13034 IN (1,.) AND H13035=.N THEN DO;
    N12=2;
     H13034=2;
    H13035=.C;
 END;
  ELSE IF H13034 IN (2,.) AND H13035 IN (1,2,3,4) THEN DO;
    N12=3;
    H13034=1;
 END;
  ELSE IF H13034=2 AND H13035 IN (.N,.) THEN DO;
    N12=4;
     IF H13035=. THEN H13035=.N;
     ELSE H13035=.C;
 END:
 ELSE IF H13034=. AND H13035=. THEN N12=5;
/** Note 13 -- H13036, H13037: tried to get cost of service/equipment from health plan**/
  IF H13036=1 AND H13037 IN (1,2,3,4,.) THEN N13=1;
 ELSE IF H13036 IN (1,.) AND H13037=.N THEN DO;
    H13036=2;
     H13037 = .C;
     N13=2;
  ELSE IF H13036 IN (2,.) AND H13037 IN (1,2,3,4) THEN DO;
    H13036=1;
    N13=3;
 END;
 ELSE IF H13036=2 AND H13037 IN (.,.N) THEN DO;
     IF H13037=. THEN H13037=.N;
    ELSE H13037=.C;
    N13=4;
 ELSE IF H13036=. AND H13037=. THEN N13=5;
/** Note 14 -- H13038, H13039: tried to get cost of prescription meds from health plan**/
  IF H13038=1 AND H13039 IN (1,2,3,4,.) THEN N14=1;
 ELSE IF H13038 IN (1,.) AND H13039=.N THEN DO;
    H13038=2;
    H13039=.C;
    N14=2;
  END;
 ELSE IF H13038 IN (2,.) AND H13039 IN (1,2,3,4) THEN DO;
    N14=3;
 END;
 ELSE IF H13038=2 AND H13039 IN (.,.N) THEN DO;
     IF H13039=. THEN H13039=.N;
     ELSE H13039=.C;
    N14=4;
 END;
 ELSE IF H13038=. AND H13039=. THEN N14=5;
/** Note 15 -- H13040, H13041-H13042: tried to use health plan's customer service **/
 ARRAY NOTE15 H13041-H13042;
 N15MARK=0;
 N15NMISS=0;
 DO OVER NOTE15;
     IF NOTE15 NE . THEN N15NMISS+1;
```

```
IF NOTE15 NOT IN (., .N) THEN N15MARK+1;
 END;
  IF H13040 = 1 AND (N15MARK>0 OR N15NMISS=0) THEN DO;
    DO OVER NOTE15;
       IF NOTE15=.N THEN NOTE15=.;
    END:
    N15=1;
 END;
 ELSE IF H13040 IN (1,.) AND (N15NMISS > 0 AND N15MARK = 0) THEN DO;
    N15=2;
    H13040=2;
    DO OVER NOTE15;
       IF NOTE15 = . THEN NOTE15=.N;
       ELSE NOTE15 = .C;
    END;
  END;
 ELSE IF H13040 IN (2,.) AND (N15MARK>0) THEN DO;
    N15=3;
    H13040=1;
    DO OVER NOTE15;
      IF NOTE15=.N THEN NOTE15=.;
    END;
 END;
 ELSE IF H13040=2 AND (N15NMISS=0 OR (N15NMISS > 0 AND N15MARK = 0)) THEN DO;
    N15=4;
    DO OVER NOTE15;
        IF NOTE15 = . THEN NOTE15=.N;
       ELSE NOTE15 = .C;
    END;
  END;
 ELSE IF H13040 IN (.) AND N15NMISS=0 THEN N15=5;
 DROP N15NMISS N15MARK;
/** Note 16 -- H13043, H13044: received forms to fill out from health plan **/
  IF H13043=1 AND H13044 IN (1,2,3,4,.) THEN N16=1;
  ELSE IF H13043 IN (1,.) AND H13044=.N THEN DO;
    H13043=2;
    H13044=.C;
    N16=2;
 END:
 ELSE IF H13043 IN (2,.) AND H13044 IN (1,2,3,4) THEN DO;
    H13043=1;
    N16=3;
  ELSE IF H13043=2 AND H13044 IN (.,.N) THEN DO;
    IF H13044=. THEN H13044=.N;
    ELSE H13044=.C;
    N16=4;
 END;
 ELSE IF H13043=. AND H13044=. THEN N16=5;
/** Note 17 -- H13045, H13046-H13047: claims to health plan **/
 ARRAY NOTE17 H13046-H13047;
 N17MARK=0;
 N17NDK=0;
 DO OVER NOTE17;
    IF NOTE17 NOT IN (.N,.D,.) THEN N17MARK+1; /* At least one is marked */
    IF NOTE17 NOT IN (.,.D) THEN N17NDK+1; /* All are missing or blank or dnk */
  IF H13045=1 AND (N17MARK>0 OR N17NDK=0) THEN DO;
    N17=1;
    DO OVER NOTE17;
       IF NOTE17=.N THEN NOTE17=.;
    END;
 END;
```

```
ELSE IF H13045 IN (1,.,.D) AND N17MARK=0 AND N17NDK>0 THEN DO;
    N17=2;
    H13045=2;
    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
    END;
 END;
 ELSE IF H13045 IN (2,.,.D) AND N17MARK>0
       THEN DO;
    H13045=1;
    N17=3;
    DO OVER NOTE17;
       IF NOTE17=.N THEN NOTE17=.;
     END;
 END;
  ELSE IF H13045 IN (2) AND N17MARK=0 THEN DO;
    N17=4;
    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
    END;
 END;
 ELSE IF H13045 IN (.D) AND N17NDK=0 THEN DO;
    N17=5;
    DO OVER NOTE17;
        IF NOTE17=. THEN NOTE17=.N;
        ELSE NOTE17=.C;
  END:
  ELSE IF H13045 IN (.) AND N17NDK=0 THEN N17=6;
 DROP N17MARK N17NDK;
/** NOTE17_Q0 \, -- S13Q08, S11Q01-S11Q05: Age and colon cancer tests \, **/
 ARRAY NOTE17Q0 S13Q01-S13Q05;
 N17Q0MARK=0;
  IF S13Q08 = 1 THEN DO;
    N17_Q0 = 1;
     DO OVER NOTE17Q0;
        IF NOTE17Q0 = . THEN NOTE17Q0 = .N;
        ELSE NOTE17Q0 = .C;
    END;
 END;
 ELSE IF $13Q08 = 2$ THEN $17_Q0 = 2$;
  ELSE IF S13Q08 = . THEN DO;
     DO OVER NOTE17Q0;
       IF NOTE17Q0 NE . THEN N17Q0MARK = N17Q0MARK+1;
      END;
      IF N17Q0MARK>0 THEN DO;
        N17_Q0 = 3;
        S13Q08 = 2;
      END;
      ELSE IF N17Q0MARK = 0 THEN N17_Q0=4;
 END;
DROP N17Q0MARK;
/** NOTE17_Q1 -- S13Q01, S13Q02: Blood stool test
 IF S13Q01 IN (.N, .C) AND S13Q02 IN (.N, .C) THEN N17_Q1=0;
 ELSE IF S13Q01=1 AND S13Q02 IN (1,2,3,4,.,.D) THEN N17_Q1=1;
 ELSE IF S13Q01 IN (1,.) AND S13Q02=.N THEN DO;
    S13Q01=2;
     S13002=.C;
    N17_Q1=2;
  ELSE IF S13Q01 IN (2,.D, .) AND S13Q02 IN (1,2,3,4) THEN DO;
    S13Q01=1;
    N17_Q1=3;
  END;
```

```
ELSE IF S13Q01 IN (2, .D) AND S13Q02 IN (.N,.,.D) THEN DO;
     IF S13Q02=. THEN S13Q02=.N;
     ELSE S13Q02=.C;
    N17_Q1=4;
  END;
  ELSE IF S13Q01 < 0 AND S13Q02 < 0 THEN N17_Q1=5;
/** Note 17_Q2 -- S13Q03, S13Q04-S13Q05: Sigmoidoscopy and colonoscopy **/
  IF S13Q03 IN (.N, .C) AND S13Q04 IN (.N, .C) AND S13Q05 IN (.N, .C) THEN N17_Q2=0;
  IF N17_Q2 NE 0 THEN DO;
  ARRAY NOTE17Q2 S13Q04-S13Q05;
  N17Q2MARK=0;
 N1702NMISS=0;
 N17Q2DNK=0;
  DO OVER NOTE17Q2;
     IF NOTE17Q2 NE . THEN N17Q2NMISS+1;
     IF NOTE17Q2 NOT IN (.N,.) THEN N17Q2MARK+1;
     IF NOTE17Q2 = .D THEN N17Q2DNK+1;
  IF $13Q03=1$ AND (N17Q2NMISS=0 OR N17Q2MARK>0) THEN N17\_Q2=1; /* N17Q2NMISS=0 means "all are
blank" */
                                                                /* N17Q2MARK>0 means "unmarked or
don't know" OR "at least one is marked" */
  ELSE IF S13Q03 IN (1,.,.D) AND N17Q2NMISS>0 AND N17Q2MARK=0 THEN DO; /* "blank or NA" */
    N17 O2=2;
     S13Q03=2;
     DO OVER NOTE17Q2;
        IF NOTE17Q2=. THEN NOTE17Q2=.N;
       ELSE NOTE17Q2=.C;
    END;
  END;
  ELSE IF S13Q03 IN (2,.,.D) AND N17Q2MARK>N17Q2DNK THEN DO; /* "at least one is marked" */
     S13003=1;
  END;
 ELSE IF S13Q03 = 2 AND N17Q2MARK=N17Q2DNK THEN DO; /* N17Q2MARK=N17Q2DNK means none are
"marked". This translates to */
                                                      /* either "all are blank" OR "blank or NA"
OR "unmarked or don't know */
     N17_Q2=4;
     DO OVER NOTE17Q2;
        IF NOTE17Q2=. THEN NOTE17Q2=.N;
        ELSE NOTE1702=.C;
     END;
  END;
  ELSE IF S13Q03 = .D AND (N17Q2NMISS=0 OR (N17Q2DNK>0 AND N17Q2DNK=N17Q2MARK)) THEN DO; /*
N17Q2NMISS=0 means "all are blank" */
N17Q2DNK=N17Q2MARK means none are "marked", but combined with */
                                                                                           /*
N17Q2DNK>0 this translates to "unmarked or don't know" */
     N17_Q2=5;
     DO OVER NOTE17Q2;
        IF NOTE17Q2=. THEN NOTE17Q2=.N;
        ELSE NOTE17Q2=.C;
     END;
  ELSE IF S13Q03 =. AND (N17Q2NMISS=0 OR (N17Q2DNK>0 AND N17Q2DNK=N17Q2MARK)) THEN N17_Q2=6; /*
Same as above for N17_Q2=5 */
  DROP N17Q2NMISS N17Q2MARK N17Q2DNK;
  END;
/** Note 18 -- smoking: H13053, H13054-H13056, H13057A-H13057D **/
```

```
ARRAY NOTE18a H13054 H13055 H13056;
 ARRAY NOTE18b H13057A--H13057D;
 N18MARK = 0;
 DO OVER NOTE18b;
   IF NOTE18b NOT IN (2,.) THEN N18MARK+1;
  IF H13053 IN (3,4,.) THEN N18=1;
 ELSE IF H13053 IN (2,.D) AND N18MARK = 0 THEN DO;
    N18=2;
    DO OVER NOTE18a;
       IF NOTE18a=. THEN NOTE18a=.N;
       ELSE NOTE18a=.C;
     END;
     DO OVER NOTE18b;
       IF NOTE18b IN (2,.) THEN NOTE18b=.N;
       ELSE NOTE18b=.C;
 END;
 ELSE IF H13053 = 2 AND N18MARK > 0 THEN DO;
    N18=3;
    H13053=.;
 ELSE IF H13053 = .D AND N18MARK > 0 THEN DO;
    DO OVER NOTE18a;
       IF NOTE18a=. THEN NOTE18a=.N;
       ELSE NOTE18a=.C;
     END;
    DO OVER NOTE18b;
       IF NOTE18b IN (2,.) THEN NOTE18b=.N;
       ELSE NOTE18b=.C;
    END;
 END;
 DROP N18MARK;
/** Note 19a - gender H13058, SEX, H13059B--H13064,
             XSEXA */
/* 1/21/98 use SRSEX & responses to gender specific questions
  if there is discrepancy between SRSEX and SEX */
/* set imputed FMALE and MALE based on gender specific questions */
 ARRAY fmaleval H13059B H13060 H13061 H13062 H13063 H13064
  cntfmale=0;
  DO OVER fmaleval;
                             /* mammogram/pap smear/PREGNANT*/
    IF fmaleval>0 THEN cntfmale=cntfmale+1;
 IF cntfmale>0 THEN FMALE=1;
 ELSE FMALE = 0;
  IF H13058=. THEN DO;
     IF (SEX='F' AND FMALE) THEN DO;
       N19a=1;
       XSEXA=2;
    END;
     ELSE IF (SEX='F' AND FMALE=0) THEN DO;
       N19a=2;
       XSEXA=2;
     ELSE IF (SEX='M' AND FMALE) THEN DO;
       N19a=3;
       XSEXA=1;
     END;
```

```
ELSE IF (SEX='M' AND FMALE=0) THEN DO;
       N19a=4;
       XSEXA=1;
     ELSE IF ((SEX IN ('Z',' ') AND FMALE)) THEN DO;
       N19a=5;
       XSEXA=2;
     END;
    ELSE IF (SEX='Z' AND FMALE=0) THEN DO;
       N19a=6;
       XSEXA=.;
    END;
     ELSE IF (SEX=' ' AND FMALE=0) THEN DO;
       N19a=7;
      XSEXA=.;
    END;
  END;
  ELSE IF (H13058=1) THEN DO;
    IF FMALE=0 THEN DO;
       N19a=8;
       XSEXA=1;
    END;
    ELSE IF FMALE THEN DO;
       IF SEX='F' THEN DO;
          N19a=9;
          XSEXA=2;
       END;
       ELSE DO;
          N19a=10;
          XSEXA=1;
       END;
    END;
 END;
  ELSE IF (H13058=2) THEN DO;
    IF FMALE THEN DO;
      N19a=11;
      XSEXA=2;
    END;
    ELSE IF FMALE=0 THEN DO;
       IF SEX='M' THEN DO;
         N19a=12;
         XSEXA=1;
       ELSE DO;
          N19a=13;
          XSEXA=2;
       END;
    END;
 END;
/* Note 19b - gender vs mammogram/paps/pregnancy */
  ARRAY NOTE19b H13059B H13060 H13061 H13062 H13063 H13064
  IF XSEXA=1 THEN DO;  /* male */
    IF FMALE=0 THEN DO;
       N19b=1;
       DO OVER NOTE19b;
         NOTE19b=.N;
       END;
    END; /* valid skip */
    ELSE IF FMALE=1 THEN DO;
       N19b=2;
       DO OVER NOTE19b;
          IF NOTE19b=. THEN NOTE19b = .N;
          ELSE NOTE19b=.C;
    END; /* inconsistent response */
 END;
 ELSE IF XSEXA=2 THEN N19b=3; /* female */
 ELSE IF XSEXA=. THEN DO; /* missing sex */
    N19b=4;
```

```
DO OVER NOTE19b;
       NOTE19b=.;
     END;
 END;
 DROP FMALE CNTFMALE;
/* Note 20- breast exam for female 40 or over */
  IF XSEXA=1 THEN DO;  /* male */
    IF (H13060=.C OR H13060=.N) AND (H13061=.C OR H13061=.N)
    THEN N20 = 1;
 END;
  ELSE IF XSEXA=2 THEN DO;
    IF H13060=2 THEN N20=2;
                                   /* female 40 or over */
     ELSE IF H13060=1 THEN DO; /* female < 40 */
        IF H13061 NE . THEN H13061=.C;
       ELSE H13061=.N;
       N20=3;
     END;
     ELSE IF H13060=. THEN DO;
       IF H13061 NE . THEN DO;
          H13060=2;
          N20=4;
       END;
        ELSE IF H13061=. THEN DO;
          IF AGE<40 THEN DO;
             H13060 = 1;
             H13061=.N;
             N20=5;
           END;
           ELSE IF AGE >= 40 THEN DO;
             H13060=2;
             N20=6;
           END;
          ELSE IF AGE=. THEN N20=7;
        END;
    END;
 END;
 ELSE IF XSEXA=. THEN N20=8;
/* Note 21 - gender vs Pregnancy */
                                /* male */
/* female */
 IF XSEXA=1 THEN N21=1;
 ELSE IF XSEXA=2 THEN DO;
    IF H13062=1 THEN DO;
                                 /* pregnant */
       IF H13063=1 THEN DO;
          N21=2;
          IF H13064=. THEN H13064 = .N;
          ELSE H13064=.C;
        ELSE IF H13063=2 AND H13064 IN (2) THEN DO;
          N21=3;
          H13064=.;
        END;
       ELSE IF H13063=2 AND H13064 IN (4,3,1,.) THEN DO;
          N21=4;
       ELSE IF H13063 IN (3,.) THEN N21=5;
     ELSE IF H13062=2 THEN DO;
       IF H13063=. THEN H13063 = .N;
       ELSE H13063=.C;
       N21=6;
     ELSE IF H13062=3 THEN DO;
       N21=7;
```

```
IF H13063 = .N;
        ELSE H13063=.C;
        IF H13064=. THEN H13064=.N;
        ELSE H13064=.C;
     END;
     ELSE IF H13062 IN (.) THEN DO;
        IF H13063=1 THEN DO;
          N21=8;
           H13062=1;
           IF H13064 = . THEN H13064 = .N;
          ELSE H13064=.C;
        END;
        ELSE IF H13063=2 AND H13064 IN (2) THEN DO;
          N21=9;
          H13062=1;
          H13064=.;
        END;
        ELSE IF H13063=2 AND H13064 IN (4,3,1,.) THEN DO;
          H13062=1;
          N21=10;
        END:
        ELSE IF H13063=3 THEN DO;
          H13062=1;
          N21=11;
        END;
        ELSE IF H13063=. THEN DO;
          N21=12;
        END;
     END;
 END:
  ELSE IF XSEXA=. AND H13062 IN (.) THEN N21=13;
 DROP AGE SEX;
/** Note 22 -- H13067, H13068: seen doctor 3 or more times for same condition **/
  IF H13067=1 THEN N22=1;
 ELSE IF \mbox{H13067} IN (2,.) AND \mbox{H13068} IN (1,2) THEN \mbox{DO}\mbox{;}
    H13067=1;
    N22=2;
 END;
 ELSE IF H13067=2 AND H13068 IN (.) THEN DO;
    H13068=.N;
    N22=3;
 END;
 ELSE IF H13067=. AND H13068=. THEN N22=4;
/** Note 23 -- \rm H13069, \rm H13070: need or take medicine prescribed by a doctor **/
 IF H13069=1 THEN N23=1;
 ELSE IF H13069 IN (2,.) AND H13070 IN (1,2) THEN DO;
    H13069=1;
    N23=2;
 END;
 ELSE IF H13069=2 AND H13070 IN (.) THEN DO;
    H13070 = .N;
    N23=3;
 END;
 ELSE IF H13069=. AND H13070=. THEN N23=4;
/** Note 24 -- H13073, H13073A-H13073E: Hispanic or Latino origin or descent **/
  /* JMA
  ****Multiple responses were given to this question so H13073 is being created
```

```
****from the multiple responses.;
  IF H13073B=1 THEN DO;
    N24=1;
    H13073=2;
  END;
 ELSE IF H13073E=1 THEN DO;
    N24=2;
    H13073=5;
 END;
  ELSE IF H13073C=1 THEN DO;
    N24=3;
    H13073=3;
  END;
  ELSE IF H13073D=1 THEN DO;
    N24=4;
    H13073=4;
  ELSE IF H13073A=1 THEN DO;
    H13073=1;
  END;
  ELSE IF H13073A IN (2,.) AND H13073B IN (2,.) AND H13073C IN (2,.) AND
        H13073D IN (2,.) AND H13073E IN (2,.) THEN DO;
    N24=6;
    H13073=.;
 END;
/** Note 25 -- currently covered by Medicare: H13074, H13075-H13079 **/
 ARRAY NOTE25 H13075-H13079;
 N25MARK = 0;
  DO OVER NOTE25;
    IF NOTE25 NOT IN (2,.D,.) THEN N25MARK+1;
  IF H13074 = 1 THEN N25=1;
  ELSE IF H13074 IN (2,.D) AND N25MARK = 0 THEN DO;
    N25=2;
     DO OVER NOTE25;
       IF NOTE25=. THEN NOTE25=.N;
       ELSE NOTE25=.C;
    END;
  ELSE IF H13074 IN (2,.D,.) AND N25MARK > 0 THEN DO;
    N25=3;
    H13074=1;
  END;
  ELSE IF H13074 = . AND N25MARK = 0 THEN N25=4;
 DROP N25MARK;
NOSURVEY:
/* missing values */
  ARRAY MISS MISS_9 MISS_7 MISS_6 MISS_5 MISS_4 MISS_1;
  MISS_TOT=0;
  DO OVER MISS;
    MISS = 0;
  END;
 ARRAY MISSARAY &VARLIST2.;
  DO OVER MISSARAY;
     IF (MISSARAY EQ -9 ) THEN MISS_9 = MISS_9 + 1;
     ELSE IF (MISSARAY EQ -7) THEN MISS_7 = MISS_7 + 1;
```

F.2.F Q3FY2013\PROGRAMS\CODINGSCHEME\CSCHM13Q.FMT - Include file for Coding Scheme for Quarter 3 FY2013.

```
/* Formats for original answers to survey questions,
    after variables have been recoded */
       FORMAT H13001
                     H13001_O YN.
              H13003
                      H13003_O HPLAN1_.
              H13004
                      H13004_O HPTIME.
              H13005
                      H13005_O PLACE.
              H13006 H13006_O H13009 H13009_O H13019 H13019_O
                YN.
              н13007
                      H13007_O OFTEN2_.
              H13008
                      H13008_O TIME1_.
              H13010
                     H13010_O OFTEN3_.
              H13011
                       H13011_O TIME2_.
              H13012
                      H13012_O OFTEN4_.
              H13013 H13013_O OFTEN4_.
              H13014
                      H13014_O OFTEN8_.
                      H13015_O YN.
              H13015
              Н13016
                     H13016_O YNDEF.
              H13017
                      H13017_O YNDEF.
                     H13018_O RATE3_.
              H13018
                      S13C09_O YN.
              S13C09
                       S13C10_0 S13C10_.
              S13C10
              S13C11
                       S13C11_O YN.
              S13C12
                      S13C12_O S13C12_.
                      S13C13_O YN.
              S13C13
              S13C14
                      S13C14_0 S13C14_.
              H13020
                     H13020_O OFTEN10_.
              H13021-H13024 H13021_O--H13024_O OFTEN5_.
              H13025
                      H13025_O YN.
              H13026
                      H13026_O OFTEN8_.
                     H13027_O RATE6_.
              H13027
                       S13009_O YN.
              S13009
                      S13010_O PROB1_.
              S13010
              H13028
                     H13028_O YN.
              н13029
                      H13029_O OFTEN9_.
              H13030
                     H13030 O SPCLST.
              H13031
                      H13031_O RATE2_.
              S13B01 S13B01_O MNTLHLTH.
              S13B02 S13B02_O YN.
              S13B03 S13B03_O PROB1_.
              S13B04 S13B04_O RATE5_.
              H13032
                      H13032_O YN.
                      H13033_O OFTEN11_.
              H13033
              н13034
                      H13034_O YN.
                      H13035_O OFTEN12_.
              H13035
              н13036
                      H13036_O YN.
                      H13037_O OFTEN13_.
              H13037
              H13038
                      H13038_O YN.
              н13039
                       H13039_O OFTEN14_.
              H13040
                       H13040_O YN.
              H13041
                     H13041_O OFTEN15_.
              H13042
                      H13042_O OFTEN15_.
              H13043
                      H13043_O YN.
```

```
H13044
             H13044_O OFTEN16_.
              H13045_O YNDNK.
      H13045
      H13046
               H13046_O OFTEN6_.
               H13047_O OFTEN6_.
      H13047
      H13048
               H13048_O RATE4_.
               H13049_O TIME5_.
      H13049
      H13050
              H13050_O YNBP_.
               S13Q08_0 YN.
      S13Q08
      S13Q01
               S13Q01_O YNDNK.
               S13Q02_O COLON1_.
      S13Q02
               S13Q03_O YNDNK.
      S13Q03
      S13Q04
               S13Q04_O COLON2_.
      S13Q05
              S13Q05_O COLON3_.
      H13051
               H13051_O TIME7_.
      H13052
               H13052_O YNDNK.
               H13053_O TIME8_.
      H13053
               H13054_O OFTEN8_.
      H13054
               H13055_O OFTEN8_.
      H13055
              H13056_O OFTEN8_.
      H13056
      н13058
              H13058_O SEX.
      H13059B H13059BO TIME16_.
      H13060 H13060_O H13066 H13066_O
        YN.
      H13061
              H13061_O TIME12_.
      H13062
               H13062_O YNPREG.
              H13063_O PREG1_.
      H13063
      н13064
               H13064_O PREG2_.
              H13065_O HEALTH.
      Н13065
      H13067
              H13067_O YN.
               H13068_O YN.
      н13068
      H13069
              H13069_O YN.
      H13070
             H13070_O YN.
               S13B23_O YN.
      S13B23
      S13B24
               S13B24_O YN.
      S13B25
               S13B25_O YN.
      S13B26
               S13B26_O YN.
      H13071F H13071FO
      H13071I H13071IO
      H13072 H13072_O
       TIME14_.
      SREDA
               SREDA_O EDUC.
      H13073
                        HISP.
               SRAGE_O AGEGRP.
      SRAGE
               H13074_O YNDNK.
      н13074
      H13075
               H13075_O MEDA.
      H13076
               H13076_O MEDB.
      H13077
               H13077_O YNDNK.
               H13078_O MEDSUPP.
      H13078
              H13079_O YNDNK.
      H13079
               S13011_O AGREE2_.
      S13011
      S13014
              S13014_O SATISFY.
      MISS_1
               MISS_4-MISS_7 MISS_9 MISS_TOT 4.
     ;
LABEL H13001_O='Are you the person listed on envelope'
```

H13001 ='Are you the person listed on envelope'

```
H13002AO='Health plan(s) covered: TRICARE Prime'
H13002A = 'Health plan(s) covered: TRICARE Prime'
H13002CO='Health plan(s) covered: TRICARE Ext/Stnd'
H13002C = 'Health plan(s) covered: TRICARE Ext/Stnd'
H13002NO='Health plan(s) covered: TRICARE Plus'
H13002N = 'Health plan(s) covered: TRICARE Plus'
H1300200='Health plan(s) covered: TRICARE For Life'
H130020 = 'Health plan(s) covered: TRICARE For Life'
H13002PO='Health plan(s) covered: TRICARE Supplmntl Ins'
H13002P = 'Health plan(s) covered: TRICARE Supplmntl Ins'
H13002QO='Health plan(s) covered: TRICARE Reserve Select'
H13002Q ='Health plan(s) covered: TRICARE Reserve Select'
H13002SO='Health plan(s) covered: TRICARE Retired Reserve'
H13002S = 'Health plan(s) covered: TRICARE Retired Reserve'
H13002TO='Health plan(s) covered: TRICARE Young Adult'
H13002T = 'Health plan(s) covered: TRICARE Young Adult'
H13002UO='Health plan(s) covered: CHCBP'
H13002U = 'Health plan(s) covered: CHCBP'
H13002FO='Health plan(s) covered: Medicare'
H13002F = 'Health plan(s) covered: Medicare'
H13002GO='Health plan(s) covered: FEHBP'
H13002G = 'Health plan(s) covered: FEHBP'
H13002HO='Health plan(s) covered: Medicaid'
H13002H = 'Health plan(s) covered: Medicaid'
H13002IO='Health plan(s) covered: civilian HMO'
H13002I = 'Health plan(s) covered: civilian HMO'
H13002JO='Health plan(s) covered: other civilian'
H13002J = 'Health plan(s) covered: other civilian'
H13002KO='Health plan(s) covered: USFHP'
H13002K = 'Health plan(s) covered: USFHP'
H13002MO='Health plan(s) covered: veterans'
H13002M = 'Health plan(s) covered: veterans'
H13002RO='Health plan(s) covered: gov hlth ins-other cntry'
H13002R = 'Health plan(s) covered: gov hlth ins-other cntry'
H13002LO='Health plan(s) covered: not sure'
H13002L = 'Health plan(s) covered: not sure'
H13003_O='Which health plan did you use most'
H13003 ='Which health plan did you use most'
H13004_O='Yrs in a row with health plan'
H13004 ='Yrs in a row with health plan'
H13005_O='In lst yr:fclty use most for health care'
H13005 ='In 1st yr:fclty use most for health care'
H13006_O='In lst yr:ill/injry/cond care right away'
H13006 ='In lst yr:ill/injry/cond care right away'
H13007_O='In 1st yr:get urgnt care as soon as wntd'
H13007 ='In lst yr:get urgnt care as soon as wntd'
H13008_O='In lst yr:wait btwn try get care,see prv'
H13008 = 'In 1st yr:wait btwn try get care, see prv'
H13009_O='In 1st yr:make appts non-urgnt hlth care'
H13009 = 'In 1st yr:make appts non-urgnt hlth care'
H13010_O='In lst yr:non-urg hlth cre appt whn wntd'
H13010 = 'In 1st yr:non-urg hlth cre appt whn wntd'
H13011_O='In lst yr:days btwn appt & see prvder'
H13011 = 'In lst yr:days btwn appt & see prvder'
H13012_O='In lst yr:go to emrgncy rm for own care'
H13012 = 'In 1st yr:go to emrgncy rm for own care'
H13013_O='In 1st yr:go to Dr office/clinic for care'
\tt H13013 = 'In \ lst \ yr:go \ to \ Dr \ office/clinic \ for \ care'
H13014 = 'Lst yr: how often talk to doctor about illness prvntn'
H13014_O='Lst yr: how often talk to doctor about illness prvntn'
H13015 ='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H13015_O='Lst yr: did doctor tell you more than 1 choice for trtmnt'
H13016 ='Lst yr: did talk to doctor about pros/cons of trtmnt'
H13016_O='Lst yr: did talk to doctor about pros/cons of trtmnt'
H13017 = 'Lst yr: did doctor ask which trtmnt option best for you'
H13017_O='Lst yr: did doctor ask which trtmnt option best for you'
H13018_O='Rating of all health care in 1st yr'
H13018 ='Rating of all health care in 1st yr'
H13019_O='Have one person think of as personal Dr'
H13019 = 'Have one person think of as personal Dr'
H13020 ='Lst yr: how often visit prsnl doctor for care for yourself'
H13020_O='Lst yr: how often visit prsnl doctor for care for yourself'
H13021_O='Lst yr: how oftn Drs listen to you'
```

```
H13021 = 'Lst yr: how oftn Drs listen to you'
H13022_O='Lst yr: how oftn Drs explain things'
H13022 = 'Lst yr: how oftn Drs explain things'
H13023_O='Lst yr: how oftn Drs show respect'
H13023 = 'Lst yr: how oftn Drs show respect'
H13024_O='Lst yr: how oftn Drs spend enough time'
H13024 = 'Lst yr: how oftn Drs spend enough time'
H13025 = 'Lst yr: did get care from doctor other than prsnl doctor'
{\tt H13025\_0='Lst~yr:} did get care from doctor other than prsnl doctor'
H13026 ='Lst yr: how often prsnl doctor seemed infrmd of care from other doctors'
H13026_O='Lst yr: how often prsnl doctor seemed infrmd of care from other doctors'
H13027_O='Rating of your personal Dr'
H13027 = 'Rating of your personal Dr'
H13028 = 'Lst yr: did make any appointments to see spclst'
H13028_O='Lst yr: did make any appointments to see spclst'
H13029 = 'Lst yr: how often easy to get appointments with spclsts'
H13029_O='Lst yr: how often easy to get appointments with spclsts'
H13030 = 'Lst yr: how many spclsts seen'
H13030_O='Lst yr: how many spclsts seen'
H13031_O='Rating of specialist seen in 1st yr'
H13031 ='Rating of specialist seen in 1st yr'
H13032 = 'Lst yr: did try to get care, test, or trtmnt through health plan'
{\tt H13032\_0='Lst~yr:} did try to get care, test, or trtmnt through health plan'
H13033 = 'Lst yr: how often easy to get care, test, or trtmnt'
H13033_O='Lst yr: how often easy to get care, test, or trtmnt'
H13034 ='Lst yr: did look for info from written material/Internet'
H13034_O='Lst yr: did look for info from written material/Internet'
H13035 = 'Lst yr: how often written material/Internet provide needed info'
H13035_O='Lst yr: how often written material/Internet provide needed info'
H13036 ='Lst yr: did look for info from health plan on cost of service/equipment'
H13036_0='Lst yr: did look for info from health plan on cost of service/equipment'
H13037 = 'Lst yr: how often able to find out cost of service/equipment'
H13037_O='Lst yr: how often able to find out cost of service/equipment'
H13038 = 'Lst yr: did look for info from health plan on cost of prescription meds'
H13038_O='Lst yr: did look for info from health plan on cost of prescription meds'
H13039 = 'Lst yr: how often able to find out cost of prescription meds'
{\tt H13039\_O='Lst~yr:} how often able to find out cost of prescription meds'
H13040 ="Lst yr: did try to get info/help from health plan's cstmr service"
H13040_O="Lst yr: did try to get info/help from health plan's cstmr service"
H13041 ='Lst yr: how often did cstmr service give needed info/help'
H13041_O='Lst yr: how often did cstmr service give needed info/help'
H13042 = 'Lst yr: how often did cstmr service treat with courtesy/respect'
H13042_O='Lst yr: how often did cstmr service treat with courtesy/respect'
H13043 ='Lst yr: did health plan give any forms to fill out'
H13043_0='Lst yr: did health plan give any forms to fill out'
H13044 = 'Lst yr: how often were forms easy to fill out'
H13044_O='Lst yr: how often were forms easy to fill out'
H13045 = 'Lst yr: send in any claims'
H13045_O='Lst yr: send in any claims'
H13046 ='Lst yr: how often did health plan handle claims quickly'
H13046_O='Lst yr: how often did health plan handle claims quickly'
H13047_O='Lst yr: how oftn handle claims correctly'
H13047 = 'Lst yr: how oftn handle claims correctly
H13048 ='Rating of all experience with hlth plan'
H13048_O='Rating of all experience with hlth plan'
H13049_O='Blood pressure: when 1st reading'
H13049 = 'Blood pressure: when 1st reading'
H13050_O='Blood pressure: know if too high or not'
H13050 = 'Blood pressure: know if too high or not'
H13051_O='When did you 1st have a flu shot'
H13051 ='When did you 1st have a flu shot'
H13052 ='Smoked at least 100 cigarettes in life'
H13052_O='Smoked at least 100 cigarettes in life'
H13053 ='Smoke or use tobacco everyday, some days or not at all'
H13053_O='Smoke or use tobacco everyday, some days or not at all'
H13054_O='Lst yr: how often advised to quit smoking or use tobacco'
H13054 ='Lst yr: how often advised to quit smoking or use tobacco'
H13055 = 'Lst yr: how often recom medic assist quit smoking or using tobacco'
H13055_O='Lst yr: how often recom medic assist quit smoking or using tobacco'
H13056 = 'Lst yr: how often discu meth/strag asst quit smoking or using tobacco'
H13056_O='Lst yr: how often discu meth/strag asst quit smoking or using tobacco'
H13057A = 'Do you smoke or use: cigarettes'
H13057AO='Do you smoke or use: cigarettes'
```

```
H13057B = 'Do you smoke or use: dip, chewing tobacco, snuff, or snus'
H13057BO='Do you smoke or use: dip, chewing tobacco, snuff, or snus'
H13057C ='Do you smoke or use: cigars'
H13057CO='Do you smoke or use: cigars'
H13057D ='Do you smoke or use: pipes, bidis, or kreteks'
H13057DO='Do you smoke or use: pipes, bidis, or kreteks'
{\tt H13058\_O='Are~you~male~or~female'}
H13058 ='Are you male or female'
H13059BO='Lst have a Pap smear test'
H13059B = 'Lst have a Pap smear test'
H13060_O='Are you under age 40'
H13060 ='Are you under age 40'
H13061_O='Lst time: breasts checked mammography'
H13061 = 'Lst time: breasts checked mammography'
H13062_O='Been pregnant in 1st yr or pregnant now'
H13062 = 'Been pregnant in 1st yr or pregnant now'
H13063_0='In what trimester is your pregnancy'
H13063 ='In what trimester is your pregnancy
H13064_O='Trimester first received prenatal care'
H13064 ='Trimester first received prenatal care'
H13065_O='In gnrl, how would you rate ovrall hlth'
H13065 = 'In gnrl, how would you rate ovrall hlth'
H13066_O='Impairment/Hlth prblm limit activities'
H13066 = 'Impairment/Hlth prblm limit activities'
H13067 ='Lst yr: have seen doctor 3 or more times for same condition'
H13067_O='Lst yr: have seen doctor 3 or more times for same condition'
H13068 = 'Has condition lasted for at least 3 months'
H13068_O='Has condition lasted for at least 3 months'
H13069 ='Need to take medicine prescribed by a doctor'
H13069_O='Need to take medicine prescribed by a doctor'
H13070 ='Medicine to treat condition that has lasted for at least 3 months'
{\tt H13070\_O='Medicine} to treat condition that has lasted for at least 3 months'
H13071FO='Height without shoes (feet)'
H13071F = 'Height without shoes (feet)'
H13071IO='Height without shoes (inches)'
H13071I = 'Height without shoes (inches)'
H13072_O='Weight without shoes'
H13072 ='Weight without shoes'
SREDA_O ='Highest grade completed'
SREDA ='Highest grade completed'
H13073 ='Are you Spanish/Hispanic/Latino'
H13073AO='Not Spanish/Hispanic/Latino'
H13073A = 'Not Spanish/Hispanic/Latino'
H13073BO='Mexican, Mexican American, Chicano'
H13073B = 'Mexican, Mexican American, Chicano'
H13073CO='Puerto Rican'
H13073C = 'Puerto Rican'
H13073D0='Cuban'
H13073D = 'Cuban'
H13073EO='Other Spanish, Hispanic, or Latino'
H13073E = 'Other Spanish, Hispanic, or Latino'
SRRACEAO='Race: White'
SRRACEA = 'Race: White'
SRRACEBO='Race: Black or African American'
SRRACEB ='Race: Black or African American'
SRRACECO='Race: American Indian or Alaska Native'
SRRACEC ='Race: American Indian or Alaska Native'
SRRACEDO='Race: Asian'
SRRACED = 'Race: Asian'
SRRACEEO='Race: Native Hawaiian/other Pacific Isl.'
SRRACEE = 'Race: Native Hawaiian/other Pacific Isl.'
SRAGE_O ='What is your age now'
SRAGE ='What is your age now'
H13074 = 'Currently Covered Medicare'
H13074_O='Currently Covered Medicare'
H13075 = 'Currently Covered Medicare Part A'
H13075_O='Currently Covered Medicare Part A'
H13076 = 'Currently Covered Medicare Part B'
H13076_O='Currently Covered Medicare Part B'
H13077 = 'Enrolled Medicare Advantage'
H13077_O='Enrolled Medicare Advantage'
H13078 = 'Currently Covered Medicare Supplemental'
H13078_O='Currently Covered Medicare Supplemental'
```

```
H13079 = 'Enrolled Medicare Part D'
H13079 O='Enrolled Medicare Part D'
S13C09_O='Lst yr: Did you need special medical equipment'
S13C09 = 'Lst yr: Did you need special medical equipment'
S13C10_0='Lst yr: How much of a problem was it to get special medical equipment'
S13C10 ='Lst yr: How much of a problem was it to get special medical equipment'
S13C11_O='Lst yr: Did you need special therapy'
S13C11 ='Lst yr: Did you need special therapy'
S13C12_O='Lst yr: How much of a problem was it to get special therapy'
S13C12 = 'Lst yr: How much of a problem was it to get special therapy'
S13C13_O='Lst yr: Did you need home health care or assistance'
S13C13 = 'Lst yr: Did you need home health care or assistance'
S13C14_O='Lst yr: How much of a problem was it to get home health care'
S13C14 = 'Lst yr: How much of a problem was it to get home health care'
S13Q08_O='Are you under age 50'
S13Q08 ='Are you under age 50'
S13Q01_O='Have you ever had a blood stool test using a home kit'
S13Q01 ='Have you ever had a blood stool test using a home kit'
S13Q02_O='How long since last blood stool test using a home kit'
S13Q02 ='How long since last blood stool test using a home kit'
S13Q03_O='Have you ever had a sigmoidoscopy or colonoscopy'
S13Q03 ='Have you ever had a sigmoidoscopy or colonoscopy'
S13Q04_O='How long since last sigmoidoscopy'
S13Q04 = 'How long since last sigmoidoscopy'
S13Q05_O='How long since last colonoscopy'
S13Q05 = 'How long since last colonoscopy'
S13009_O='Same prsnl doctor/nurse before this hlth plan'
S13009 = 'Same prsnl doctor/nurse before this hlth plan'
S13010_0='Prblm getting prsnl doctor/nurse you are happy with'
S13010 ='Prblm getting prsnl doctor/nurse you are happy with'
S13B01_O='Self rate of overall mental/emotional health'
S13B01 = 'Self rate of overall mental/emotional health'
S13B02_O='Lst yr: needed treatmnt/cnslng-prsnl prob'
S13B02 = 'Lst yr: needed treatmnt/cnslng-prsnl prob'
S13B03_O='Lst yr: prblm gttng needed treatmnt/cnslng'
S13B03 ='Lst yr: prblm gttng needed treatmnt/cnslng'
S13B04_O='Lst yr: rate of treatmnt/cnslng received'
S13B04 = 'Lst yr: rate of treatmnt/cnslng received'
S13B23_O='Past month: nightmares/thoughts you did not want'
S13B23 = 'Past month: nightmares/thoughts you did not want'
S13B24_O='Past month: tried not to think about or be reminded'
S13B24 ='Past month: tried not to think about or be reminded'
S13B25_O='Past month: constantly on guard, watchful, or startled'
S13B25 ='Past month: constantly on guard, watchful, or startled'
S13B26 O='Past month: felt numb or detached from others'
S13B26 = 'Past month: felt numb or detached from others'
S13011 ='Agree/disagree: able to see provider when needed'
S13011_O='Agree/disagree: able to see provider when needed'
S13014 = 'How satisfied with health care during last visit'
S13014_O='How satisfied with health care during last visit'
     = "Coding Scheme Note 1"
     = "Coding Scheme Note 2"
N2
     = "Coding Scheme Note 3"
N4
     = "Coding Scheme Note 4"
     = "Coding Scheme Note 5"
N5
N5A1 = "Coding Scheme Note 5A1"
N5A2 = "Coding Scheme Note 5A2"
N5A3 = "Coding Scheme Note 5A3"
     = "Coding Scheme Note 6"
N6
N7
     = "Coding Scheme Note 7"
     = "Coding Scheme Note 8"
И8
N8_01 = "Coding Scheme Note 8_01"
    = "Coding Scheme Note 9"
N10 = "Coding Scheme Note 10"
N10_B1= "Coding Scheme Note 10_B1"
```

```
N11 = "Coding Scheme Note 11"
N12 = "Coding Scheme Note 12"
N13 = "Coding Scheme Note 13"
N14 = "Coding Scheme Note 14"
N15 = "Coding Scheme Note 15"
     = "Coding Scheme Note 16"
     = "Coding Scheme Note 17"
N17
N17_Q0= "Coding Scheme Note 17_Q0"
N17_Q1= "Coding Scheme Note 17_Q1"
N17_Q2= "Coding Scheme Note 17_Q2"
N18 = "Coding Scheme Note 18"
N19A = "Coding Scheme Note 19A"
N19B = "Coding Scheme Note 19B"
N20 = "Coding Scheme Note 20"
N21 = "Coding Scheme Note 21"
N22 = "Coding Scheme Note 22"
     = "Coding Scheme Note 23"
N23
N24 = "Coding Scheme Note 24"
N25 = "Coding Scheme Note 25"
MISS_1 = "Count of: violates skip pattern"
/*MISS_3 = "Count of: do not use other tobacco products response"*/
MISS_4 = "Count of: incomplete grid error"
MISS_5 = "Count of: scalable reponse of don't know"
MISS_6 = "Count of: not applicable - valid skip"
MISS_7 = "Count of: out-of-range error"
MISS_9 = "Count of: no response - invalid skip"
MISS_TOT = "Total number of missing responses"
XSEXA = "Male or Female - R"
```

F.3 Q3FY2013\PROGRAMS\WEIGHTING\SELECTQ.SAS - Create Flag for Record Selection - Run Ouarterly.

```
* PROGRAM: SELECTQ.SAS
          QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-300)
* PURPOSE: ASSIGN FINAL STATUS FOR RECORD SELECTION PURPOSES. * WRITTEN: 12/14/2000 BY KEITH RATHBUN
* MODIFIED: 1) 03/21/2002 BY KEITH RATHBUN, Updated for the 2002 survey.
             Added FLAG_FIN = 23,24 for FNSTATUS = 20.
          2) 03/22/2004 BY KEITH RATHBUN, Updated for the 2004 survey.
          3) 09/23/2004 BY KEITH RATHBUN, Added code to assign flag_fin
             for ineligibles (determined by STI) at time of address update
             prior to fielding using the adult_deceased.sd2 file.
          4) 04/15/2005 BY JACQUELINE AGUFA, Updated for the 2005 survey.
          5) 03/16/2006 BY JACQUELINE AGUFA, Updated for the 2006 survey.
          6) 12/15/2006 BY JACQUELINE AGUFA, Updated for the 2007 survey.
          7) 01/10/2008 BY JACQUELINE AGUFA, Updated for the 2008 survey.
          8) 12/17/2008 BY JACQUELINE AGUFA, Updated for the 2009 survey.
          9) 12/15/2009 BY JACQUELINE AGUFA, Updated for the 2010 survey.
         10) 12/01/2010 BY MIKE RUDACILLE, Updated for the 2011 survey. 11) 12/09/2011 BY MIKE RUDACILLE, Updated for the 2012 survey.
         12) 07/16/2012 BY AMANDA KUDIS, updated to handle overlap cases.
         13) 12/15/2012 BY MIKE RUDACILLE, Updated for the 2013 survey.
* INPUTS: 1) CSCHM13Q.sas7bdat - 2013 Quarterly DOD Health Survey Data
* OUTPUTS: 1) SELECTQ.sas7bdat - 2013 Quarterly DOD Health Survey Data w/FNSTATUS
******************
                "..\..\DATA\AFINAL";
LIBNAME IN
LIBNAME OUT
                "..\..\DATA\AFINAL";
                "..\..\DATA\AFINAL\FMTLIB";
LIBNAME LIBRARY
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
%LET OVERLAPCASE=N;
PROC SORT DATA=IN.CSCHM13Q OUT=TEMPA1; BY MPRID; RUN;
DATA TEMPA2 OUT.DUPSA OVERLAP;
  SET TEMPA1;
  BY MPRID;
  /** KEY VARIABLES (Total=20)
  ARRAY KEYVAR H13003 H13005 H13006 H13009 H13013 H13018 H13019 H13027
              H13028 H13031 H13033 H13040 H13043 H13048 H13051 H13052
              H13065 H13073 SREDA
  ARRAY RACE(5) SRRACEA SRRACEB SRRACEC SRRACED SRRACEE;
  FLAGRACE = 0; DROP FLAGRACE;
  DO I = 1 TO DIM(RACE);
    IF RACE(I) IN (1) THEN FLAGRACE = 1;
  END;
  KEYCOUNT = 0;
  DO I = 1 TO DIM(KEYVAR); DROP I;
     IF KEYVAR(I) NOT IN (.,.A,.O,.I,.B) THEN KEYCOUNT = KEYCOUNT + 1;
  KEYCOUNT = KEYCOUNT + FLAGRACE;
  /** SET FLAG FOR DUPLICATES
  LENGTH DUPFLAG $3;
  DUPFLAG = 'NO';
```

```
IF NOT (FIRST.MPRID AND LAST.MPRID) THEN DUPFLAG = 'YES';
  /******************************
  /** DETERMINE FNSTATUS
  /*************************
  FNSTATUS = 0;
  IF FLAG FIN = 1 THEN DO;
     ****************
     **** APPLY THE COMPLETE QUESTIONNAIRE RULE (50% OF KEY ****
    **** VARIABLES).
     *******************
    IF KEYCOUNT GT 9 THEN FNSTATUS = 11;
    ELSE FNSTATUS = 12;
  END;
  ELSE IF FLAG_FIN IN(3,6,8,10,11,14,16,21,23,24) THEN DO;
    FNSTATUS = 20;
  END;
  ELSE IF FLAG FIN IN(2,4,5,7,12,13,15) THEN DO;
    FNSTATUS = 31;
  ELSE IF FLAG_FIN IN (25,26) THEN DO;
    FNSTATUS = 32;
  END;
  ELSE IF FLAG_FIN IN(9,17,18,19,20,22) THEN DO;
    IF FLAG_FIN IN (18,19,20) THEN DO;
       FNSTATUS = 42;
     END;
    ELSE DO;
       FNSTATUS = 41;
    END:
  END;
  ELSE IF FLAG FIN IN(99) THEN DO;
    CALL SYMPUT("OVERLAPCASE", "Y");
    OUTPUT OVERLAP; **cases that overlap with another survey;
  END;
  IF DUPFLAG = 'YES' THEN OUTPUT OUT.DUPSA ;
  ELSE IF FLAG FIN NE 99 THEN OUTPUT TEMPA2;
RUN;
********************
* Select the "most complete" questionaire from duplicates and
* SET it back into the non-duplicates file. For now assume the lowest
* FNSTATUS Value is the "most complete".
PROC SORT DATA=OUT.DUPSA ;
BY MPRID FNSTATUS;
RUN;
DATA DEDUPED;
  SET OUT.DUPSA ;
  BY MPRID FNSTATUS;
  IF FIRST.MPRID; *KEEP only the first - most complete questionaire;
RIIN;
************************
* Assign FNSTATUS for the overlap cases if they are some this quarter
%MACRO OVERLAP;
  %IF "&OVERLAPCASE"="Y" %THEN %DO;
     %INCLUDE "overlap_fnstatus.inc"/SOURCE2;
  %END;
  DATA OUT.SELECTO;
     SET TEMPA2 DEDUPED
       %IF "&OVERLAPCASE"="Y" %THEN %DO;
          overlap_fnstatus
```

F.4.A Q3FY2013\PROGRAMS\CONSTRUCT\CONVARQ.SAS - Construct Variables for Analysis - Run Ouarterly.

```
************************
* PROGRAM: CONVARO.SAS
* WRITTEN: 2/3/99 BY KELLY WHITE
* UPDATED: 2/29/2000 BY NATALIE JUSTH
* UPDATED: 11/16/2000 BY JOAN JAMES
* UPDATED FOR QUARTERLY 2001: 1/22/2001 BY NATALIE JUSTH
* UPDATED FOR QUARTER 2 2001: 6/5/2001 BY NATALIE JUSTH
                                 UPDATES NOTED WITH NJ 02
* UPDATED FOR QUARTER 3 2001: 8/20/2001 BY NATALIE JUSTH
* UPDATED FOR QUARTER 4 2001: 12/11/2001 BY NATALIE JUSTH, REMOVED KENRINTN
             AND CHANGE DAGEQY TO FIELDAGE.
* UPDATED FOR QUARTER 1 2002: 4/01/2002 BY JACLYN WONG, REMOVED KMEDIGAP, KCOST_2
* UPDATED FOR QUARTER 2 2002: 6/19/2002 BY JACLYN WONG, REMOVED KPRSCPTN
* UPDATED FOR QUARTER 3 2002: 9/25/2002 BY JACLYN WONG
* UPDATED FOR QUARTER 1 2003: BEGUN 3/13/2003 BY NATALIE JUSTH
* UPDATED FOR QUARTER 3 2003: BEGUN 8/29/2003 BY NATALIE JUSTH UPDATED FOR QUARTER 4 2003: 12/18/2003 BY NATALIE JUSTH
* UPDATED FOR QUARTER 1 2004: 1/29/2004 BY LUCY LU
* UPDATED FOR QUARTER 2 2004: 6/10/2004 BY LUCY LU
* UPDATED FOR QUARTER 3 2004: 9/13/2004 BY LUCY LU
* Added Code to include Consvar0.sas: 9/28/2004 BY JACQUELINE AGUFA
* Added Code to calculate XBMI: 10/18/2004 BY JACQUELINE AGUFA
* UPDATED FOR QUARTER 4 2004: 2/1/2005 BY LUCY LU
* ADDED code to get updated CACSMPL from REPWT.sd2: 2/17/2005 BY JACQUELINE AGUFA
* UPDATED FOR QUATER 1 2005: 5/6/2005 BY LUCY LU. ADD VARIABLE HP_NORM
* UPDATED FOR QUATER 3 2005: 11/3/2005 BY JACQUELINE AGUFA. ADD VARIABLE HP_OBESE
* UPDATED FOR QUARTER 2 FY 2006: 3/29/2006 BY LUCY LU
* UPDATED FOR QUARTER 3 FY 2006: 7/7/2006 BY LUCY LU. ADD XOCONUS VARIABLE
* UPDATED FOR QUARTER 1 FY 2007: 1/12/2007 BY J AGUFA.

* UPDATED FOR QUARTER 2 FY 2007: 3/26/2007 BY J AGUFA. Modified XENRLLMT, XENR_PCM, XENR_RSV, &
XBNFGRP
                                     with TRICARE Reserve Select(Enbgsmpl=11)
* UPDATED FOR QUARTER 1 FY 2008: 1/22/2008 BY J AGUFA. Deleted code that was recoding LEGDDSCD * UPDATED FOR QUARTER 2 FY 2009: 4/13/2009 BY M RUDACILLE. Changed lower age limit from 17 to 18
                                     for constructed variable checks
* UPDATED FOR QUARTER 1 FY 2010: 12/16/2009 BY MRUDACILLE.
* UPDATED FOR QUARTER 1 FY 2011:
                                     12/01/2010 BY MRUDACILLE.
* UPDATED FOR QUARTER 1 FY 2012: 12/09/2011 BY MRUDACILLE.
* UPDATED FOR QUARTER 1 FY 2013: 12/15/2012 BY MRUDACILLE.
 Changed HP_CESH2 to HP_CESH3 to reflect
* change in definition of smoking cessation variable 1/19/2011 BY MIKE RUDACILLE
  Changed HP_SMKH2 to HP_SMKH3 to reflect change in definition
* of smoking variable 3/30/2011 BY MIKE RUDACILLE
* PURPOSE:
              TO CREATE INDEPENDENT VARIABLES: XENRLLMT, XENR_PCM, XINS_COV,
              XBNFGRP, XBENCAT, XINS_RSV, XENR_RSV
              TO CREATE DEPENDENT VARIABLES: KDISENRL, KBGPRB1,
              KBGPRB2, KMILOFFC, KCIVOFFC, KMILOPQY, KCIVOPQY, HP_PRNTL, HP_MAMOG,
              HP_MAM50, HP_PAP, HP_BP, HP_FLU, HP_PROS, KCIVINS, KPRSCPTN, HP_GP,
              HP_CHOL, HP_BRST, HP_SMOKE, HP_SMOKH, HP_CESS, HP_OBESE,
              TO CREATE OUTCATCH
             ..\..\DATA\AFINAL\SELECTQ.sas7bdat
* INPUT:
* OUTPUT:
              ..\..\DATA\AFINAL\CONVARQ.sas7bdat
* INCLUDES: 1) CONSVARO.SAS - Construct XREGION, XTNEXREG and USA based on CACSMPL.
            2) Construct_cacsmpl.SAS
LIBNAME IN
                    '..\..\DATA\AFINAL';
LIBNAME LIBRARY '..\..\DATA\AFINAL\FMTLIB';
OPTIONS PS=78 LS=256 ERRORS=2 NOCENTER ;
***Create cacsmpl;
TITLE1 'FY 2013 Quarter 3 Health Care Survey of DoD Beneficiaries Study - Adult Form A';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';
```

```
PROC SORT DATA=IN.SELECTO OUT=SELECTO; BY MPRID; RUN;
%INCLUDE "Construct_cacsmpl.SAS"/SOURCE2; /* Move construct_cacsmpl here to use selectq sort */
/* Reset titles after construct_cacsmpl is finished */
TITLE1 'FY 2013 Quarter 3 Health Care Survey of DoD Beneficiaries Study - Adult Form A';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';
PROC SORT DATA=IN.CONSTRUCT_CACSMPL OUT=CACSMPL; BY MPRID; RUN;
DATA IN.CONVARQ(KEEP=XENRLLMT XENR_PCM XINS_COV
                     XREGION XTNEXREG USA
                     ENBGSMPL XBNFGRP XOCONUS SERVAREA
                     /*KMILOFFC KCIVOFFC KBGPRB1 KBGPRB2 */
                     KMILOPQY KCIVOPQY HP_PRNTL HP_MAMOG HP_MAM50 HP_PAP HP_BP HP_FLU
                     MPRID KCIVINS HP_SMOKE
                     OUTCATCH HP_SMKH3 HP_CESH3 HP_OBESE
                     XBMI XBMICAT CACSMPL XBENCAT XENR_RSV XINS_RSV
                     RDAGEQY RFLDAGE JSFLAG)
       CONVARQ;
  MERGE SELECTQ(IN=in1)
        CACSMPL(IN=in2 RENAME=(CACSMPL=XCACSMPL)); *JMA 1/4/07;
  BY MPRID;
  IF IN1;
  *******************
   * Construct XREGION, XTNEXREG and USA.
   /*CHANGE CACSMPL TO BE NUMERIC*/
  CACSMPL = INPUT(XCACSMPL,8.);
                                           *LLU 2/9/05;
  DROP XCACSMPL;
  %INCLUDE "CONSVARO.SAS"/SOURCE2;
                                          *LLU 2/9/05;
  LENGTH JSFLAG 3.
         XREGION 3.
         XTNEXREG 3.
         USA
                  3.
         XBMI
                  8.
         XBMICAT 3.
         XOCONUS
                  3.
         XBENCAT 3.
         XINS_RSV 3.
         XENR_RSV 3.
         RDAGEQY 3.
         RFLDAGE 3.
            ;
LABEL
  JSFLAG
             = "Joint Service Flag"
  XENRLLMT = "Enrollment in TRICARE Prime"
  XENR_PCM = "Enrollment by PCM type"
  XINS_COV =
                 "Insurance Coverage"
  XBNFGRP
             = "Constructed Beneficiary Group"
  KMILOPQY = "Outpat. visits-use Military fclty most"
           = "Outpat. visits-use Civilian fclty most"
  KCIVOPQY
             = "Prgnt in 1st yr, receivd cre 1st trimstr"
  HP_PRNTL
  HP_MAMOG = "Women 40>=, mammography in pst 2 yrs"
  HP_MAM50 = "Women 50>=, mammography in pst 2 yrs"
  HP_PAP = "All women, Pap smear in last 3 yrs"
HP_BP = "Bld prsre chck in last 2 yrs,know rslts"
  HP_FLU
             = "65 and older, flu shot in last 12 mnths"
  HP_SMOKE = "Advised to quit smoking in last 12 mnths"

KCIVINS = "Beneficiary coverd by civilian insurance"

OUTCATCH = "Out of catchment area indicator"
  HP_SMKH3 = "Smoker under HEDIS definition (modified)"
            = "Had smoking cessation counseling - HEDIS (modified)"
  HP_CESH3
```

```
XREGION = "XREGION - Region"
   XTNEXREG = "TNEX Region - Based on Location of Health Services" USA = "USA - USA/OCONUS Indicator"
        = "USA - USA, CCC..."
= "Body Mass Index"
   XBMI
               = "Body Mass Index Category"
   XBMICAT
               = "Obese/Morbidly obese"
   HP_OBESE
               = "Overseas Europe/Pacific/Latin Indicator"
  XINS_RSV = "Insurance Coverage - Reservist"
XENR_RSV = "Enrollment by PCM type "
CACSMPL = "Catch"
   XOCONUS
               = "Enrollment by PCM type - Reservist"
   SERVAREA = "Service Area"
  RDAGEQY = "Age at sampling-Capped(18 and below, 86 and above)"
RFLDAGE = "Age at fielding-Capped(18 and below, 86 and above)"
FORMAT
   JSFLAG
                   JSFLAG.
   XENRLLMT
                   ENROLL.
   XENR_PCM
                  PCM.
   XINS_COV
                   INSURE.
   XBNFGRP
                   XBGC_S.
   KMILOPQY
                  HAGRID.
   KCIVOPQY
                  HAGRID.
   HP PRNTL
                   PRNTL.
                  HAYNN.
   HP_MAMOG
   HP_MAM50
                  HAYNN.
   HP_OBESE
                  HAYNN.
   HP_PAP
                   HAYNN.
   HP BP
                  HAYNN2_.
   HP_FLU
                 HAYNN.
   HP_SMOKE
                   HAYNN.
                  HAYNN2_.
   KCIVINS
   OUTCATCH
                  OCATCH.
   HP_SMKH3
                   SMOKE.
   HP_CESH3
                   SMOKE.
   ENBGSMPL
                  SENBGS.
   XREGION
                  CREG.
   XTNEXREG
                   TNEX.
                  USAMHS.
   USA
   XBMICAT
                 XBMICAT.
                  XOCONUS.
   XOCONUS
   XBENCAT
                   XBENCAT.
                  XINSRSV.
   XINS_RSV
   XENR_RSV
                  XENRRSV.
   CACSMPL
                   CAC.
   SERVAREA
                   $SRVAREA.
   RDAGEOY
                  AGE r.
   RFLDAGE
                  AGE_r.
/\!\!\!\!\!^{\star} MER 01/10/13 - Added code for creating Joint Service flag ^{\star}/\!\!\!\!\!
   IF PUT(CACSMPL, JOINTSRV.)='1' THEN JSFLAG=1;
   ELSE JSFLAG=0;
/* CREATE INDEPENDENT VARIABLES */
/* XENRLLMT--ENROLLMENT STATUS */
IF ENBGSMPL ^= "b" THEN DO;
IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;</pre>
                                                                         /* Active duty (<65) */
/* Non-active duty enrolled</pre>
   IF INPUT(ENBGSMPL,8.) = 1 THEN XENRLLMT = 1;
   ELSE IF INPUT(ENBGSMPL, 8.) IN (2, 3, 5, 6) THEN XENRLLMT = 2;
(<65)*/
   ELSE IF INPUT(ENBGSMPL, 8.) IN (4, 7,11) THEN XENRLLMT = 3;
                                                                                Not Enrolled (<65)*/
END;
ELSE IF INPUT(FIELDAGE, 8.) > = 65 THEN DO;
                                                                          /* Not Enrolled (65+)*/
/* Enrolled (65+) */
   IF INPUT(ENBGSMPL, 8.) = 10 THEN XENRLLMT = 4;
   ELSE IF INPUT(ENBGSMPL,8.) IN (8,9) THEN XENRLLMT = 5;
```

```
/* XENR PCM--ENROLLMENT BY PCM TYPE */
IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;</pre>
   IF INPUT(ENBGSMPL, 8.) = 1 THEN XENR PCM = 1;
                                                                            Active duty (<65)
  ELSE IF INPUT(ENBGSMPL,8.) IN (3, 6) THEN XENR_PCM = 2; /* Enrolled (<65) - mi
ELSE IF INPUT(ENBGSMPL,8.) IN (2, 5) THEN XENR_PCM = 3; /* Enrolled (<65) - ci
ELSE IF INPUT(ENBGSMPL,8.) IN (4, 7,11) THEN XENR_PCM = 4; /* Not Enrolled (<65)
                                                                       /*
                                                                             Enrolled (<65) - mil PCM */
                                                                             Enrolled (<65) - civ PCM */
ELSE IF INPUT(FIELDAGE,8.) > = 65 THEN DO;
   IF INPUT(ENBGSMPL,8.) = 10 THEN XENR_PCM = 5; /* Not Enrolled (65+)
IF INPUT(ENBGSMPL,8.) = 9 THEN XENR_PCM = 6; /* Enrolled (65+)-mil PCM
IF INPUT(ENBGSMPL,8.) = 8 THEN XENR_PCM = 7; /* Enrolled (65+)-civ PCM
/*NJ_Q2*/
END;
END;
/* XINS_COV--INSURANCE COVERAGE */
IF XENRLLMT = 1 THEN XINS COV =1;
                                                                           /* Prime <65-Active Duty */
 ELSE IF 17 <= INPUT(FIELDAGE, 8.) < 65 AND H13003 IN (1) THEN XINS_COV = 2; /* Prime <65-Non-
active Duty */
 ELSE IF H13003 = 3 THEN XINS_COV = 3;
                                                                           /* Standard/Extra */
  ELSE IF H13003 = 11 THEN XINS_COV = 7;
                                                                             /* Plus and Medicare */
  ELSE IF H13003 = 4 THEN XINS_COV = 4;
                                                                             /* Medicare*/
  ELSE IF H13003 IN (5,6, 7, 8, 9, 13) THEN XINS_COV = 5;
                                                                             /* Other civilian health
insurance*/
 ELSE IF H13003 = 10 THEN XINS_COV = 8;
                                                                             /* Veterans Administration
(VA) */
  ELSE IF H13003 = 12 THEN XINS_COV = 9;
                                                                             /* TRICARE Reserve Select */
                                                                             /* TRICARE Retired Reserve -
  ELSE IF H13003 = 14 THEN XINS_COV = 10;
MER 06/21/11 */
  ELSE IF 21 <= INPUT(FIELDAGE, 8.) <= 26
    AND H13003 = 15 THEN XINS_COV = 11;
                                                                             /* TRICARE Young Adult - MER
06/21/11 */
 ELSE IF H13003 = 16 THEN XINS_COV = 12;
                                                                             /* CHCBP - MER 06/21/11 */
 ELSE IF (INPUT(FIELDAGE, 8.) >= 65 AND XENRLLMT = 5 and H13003 = 1) THEN XINS_COV = 6; /*
Prime, >= 65 */
 ELSE IF H13075=1 AND H13076=1 AND H13003 NE .N THEN XINS_COV = 4;
                                                                                                /* NEW Q2
Medicare/Medicaid */
/* XBNFGRP-Beneficiary Group that excludes those 65 and over-Active Duty
           and Family Members of Active Duty */
IF ENBGSMPL ^="b" THEN DO;
IF INPUT(FIELDAGE, 8.) >= 65 AND INPUT(ENBGSMPL, 8.) IN (1, 2, 3, 4) THEN XBNFGRP = .;
  ELSE IF INPUT(ENBGSMPL, 8.) = 1 THEN XBNFGRP = 1;
                                                                                                 /* Active
Duty <65 */
  ELSE IF INPUT(ENBGSMPL, 8.) IN (2, 3, 4) THEN XBNFGRP = 2;
                                                                                                 /* Family
of Active <65 */
   ELSE IF INPUT(ENBGSMPL, 8.) IN (5, 6, 7) THEN XBNFGRP = 3;
Ret/Surv/Fam <65 */</pre>
                                                                                                 /*
   ELSE IF INPUT(ENBGSMPL, 8.) IN (8, 9, 10) THEN XBNFGRP = 4;
Ret/Surv/Fam 65+ */
                                               THEN XBNFGRP = .;
  ELSE IF INPUT(ENBGSMPL, 8.) IN (11)
END;
/* CREATE DEPENDENT VARIABLES */
/* KMILOPQY--OUTPATIENT VISITS TO MILITARY FACILITY
  KCIVOPQY--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF H13005 = 1 THEN DO;
  KMILOPQY=H13013;
  KCIVOPQY=1;
ELSE IF H13005 IN (2, 3, 4) THEN DO;
  KCIVOPQY=H13013;
  KMILOPOY=1;
END;
ELSE IF H13005 = 5 THEN DO;
   KMILOPQY=1;
  KCIVOPQY=1;
END;
```

```
/* HP_PRNTL--IF PREGNANT LAST YEAR, RECEIVED PRENATAL CARE IN 1ST TRIMESTER */
IF H13062 IN (1,2) THEN DO;
                                                                 /* Pregnant in last 12 months
* /
   IF H13064 = 4 THEN HP PRNTL = 1;
                                                                /* Yes */
     ELSE IF (H13063 = 1 AND H13064 = 1) THEN HP_PRNTL = .;
                                                               /* <3 months pregnant now */</pre>
      ELSE IF H13064 IN (1,2,3) THEN HP_PRNTL = 2;
                                                                /* No */
/* MER 12/19/2011 - added HP_PRNTL recode to N/A for males */
ELSE IF H13062 IN (.C,.N) THEN HP\_PRNTL = .N; /* Male */
/* HP_MAMOG--FOR WOMEN AGE 40 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS */
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 40 THEN DO;
   IF H13061 IN (5, 4) THEN HP_MAMOG = 1;
                                                     /* Yes */
                                                    /* No */
  ELSE IF H13061 IN (1, 2, 3) THEN HP_MAMOG = 2;
/* HP_MAM50--FOR WOMEN AGE 50 AND OVER, HAD MAMMOGRAM W/IN PAST 2 YEARS */
IF XSEXA = 2 AND INPUT(FIELDAGE,8.) >= 50 THEN DO;
   IF H13061 IN (5, 4) THEN HP_MAM50 = 1;
                                                     /* Yes */
  ELSE IF H13061 IN (1, 2, 3) THEN HP_MAM50 = 2;
                                                    /* No */
END:
/* HP_PAP--FOR ALL WOMEN, HAD PAP SMEAR IN LAST 3 YEARS */
IF XSEXA = 2 THEN DO;
  IF H13059B IN (4, 5, 6) THEN HP_PAP = 1;
                                                      /* Yes */
                                                      /* No */
  ELSE IF H13059B IN (1, 2, 3) THEN HP_PAP = 2;
/* HP_BP--HAD BLOOD PRESSURE SCREENING IN LAST 2 YEARS AND KNOW RESULT */
IF H13049 IN (2,3) AND H13050 IN (1,2) THEN HP_BP = 1; /* Yes */
   ELSE IF H13049 = 1 THEN HP_BP = 2;
                                                        /* No
                                                        /* Unknown */
   ELSE IF H13049 < 0 OR H13050 < 0 THEN HP_BP = .;
   ELSE HP_BP = 2;
                                                        /* No
^{\prime \star} HP_FLU--FOR PERSON AGE 65 OR OVER, HAD FLU SHOT IN LAST 12 MONTHS ^{\star \prime}
IF INPUT(FIELDAGE, 8.) >= 65 THEN DO;
  IF H13051 = 4 THEN HP_FLU = 1;
                                                          Yes */
                                                     /* No */
   ELSE IF H13051 IN (1, 2, 3) THEN HP_FLU = 2;
END;
/* HP SMOKE--ADVISED TO QUIT SMOKING IN PAST 12 MONTHS */
ELSE IF H13054 = 1 THEN HP_SMOKE = 2;
/* KCIVINS--IS BENEFICIARY COVERED BY PRIVATE CIVILIAN INSURANCE */
                                                          /* YES */ /*NJ_Q2*/
IF H13002G=1 OR H13002I=1 OR H13002J=1 THEN KCIVINS=1;
   ELSE KCIVINS=2;
                                                                 /* NO */
^{\prime \star} Add code for smoking and smoking cessation counseling according to the HEDIS ^{\star \prime}
/* definition. Smoking variable is HP_SMOKH and smoking cessation counseling
/* is HP_CESS.
/* 1/16/09 Changed HP_SMOKH to HP_SMKH2 and HP_CESH to HP_CESH2 to account for
/* HYY054 variable not appearing in V4 questionnaire.
/* 1/19/11 Changed HP_CESH2 to HP_CESH3 to account for change in definition
/\!^* 3/30/11 Changed HP_SMKH2 to HP_SMKH3 to account for change in definition
/*
          HP_SMKH3 defines smokers as people who have smoked at least 100
          cigarettes in their life, who smoke cigarettes or use tobacco some
/*
          days or every day, and who smoke cigarettes on the days they smoke
          or use tobacco.
/\!^* 4/1/11 Changed HP_CESH3 definition to consider not just smokers but all
          tobacco users.
IF H13052 IN (1,2) THEN DO;
   IF \rm H13052=1 AND (\rm H13053=3 OR \rm H13053=4) AND \rm H13057A=1 THEN \rm HP\_SMKH3=1; /* Yes */
  ELSE IF H13052=2 OR H13053=2 OR H13057A NE 1 THEN HP_SMKH3=2;
END;
IF (H13053=3 OR H13053=4) AND H13054>0 THEN DO;
  IF H13054>1 THEN HP_CESH3=1; /* Yes */
                                /* No */
  ELSE HP_CESH3=2;
END;
/* OUTCATCH -- OUT OF CATCHMENT AREA */
IF 9900 < CACSMPL < 9999 THEN OUTCATCH=1;
                                              /* Out of catchment area */
```

```
ELSE IF CACSMPL = 9999 THEN OUTCATCH=.;
                                             /* Catchment area
  ELSE OUTCATCH=0;
                                                                    * /
********************
* Calculate XBMI- Body Mass Index and XBMICAT- Body Mass Index Category
* BMI=Weight(in pounds)*703 divide by Height(in inch)*Height(in inch)
IF H13071F IN (.A,.O,.I,.B) THEN TSRHGTF=.; ELSE TSRHGTF=H13071F;
IF H13071I IN (.A,.O,.I,.B) THEN TSRHGTI=.; ELSE TSRHGTI=H13071I;
IF H13072 IN (.A,.O,.I,.B) THEN TSRWGT =.; ELSE TSRWGT =H13072;
IF TSRHGTF IN (.) OR
   TSRWGT IN (.) THEN XBMI=.;
ELSE DO;
   XBMI = ROUND((TSRWGT*703)/
                (SUM(TSRHGTF*12,TSRHGTI)*SUM(TSRHGTF*12,TSRHGTI)), .1);
END;
IF XBMI >= 100 THEN XBMI=.;
* FORMAT XBMI 5.1;
DROP TSRHGTF TSRHGTI TSRWGT;
/* JMA Dec 28 2006 changed to have same category as Healthy People 2010 where
  there is no sex distinction */
                       THEN XBMICAT=.;
   IF XBMI = .
    ELSE IF XBMI < 18.5 THEN XBMICAT=1;
                                        *Underweight;
   ELSE IF XBMI < 25 THEN XBMICAT=2; *Normal Weight;
   ELSE IF XBMI < 30 THEN XBMICAT=3; *Overweight;
   ELSE IF XBMI < 40 THEN XBMICAT=4; *Obese;
ELSE XBMICAT=5; *Morbidly Obese;
/*ADD HP_OBESE VARIABLE. JMA 11/3/2005*/
IF XBMICAT=. THEN HP_OBESE=.;
ELSE IF XBMICAT IN (4,5) THEN HP_OBESE=1;
                                         *OBESE ;
ELSE HP_OBESE=2;
                                            *NOT OBESE;
/*ADD XBENCAT JMA 1/22/2007 */
Tricare Reserve Select and the increasing presence of inactive reservists and their dependents in
our data.
In order to accomodate them, we will need to create additional variables.
IF DBENCAT='ACT' THEN XBENCAT=1;
                                     *Active duty;
ELSE IF DBENCAT='DA' THEN XBENCAT=2; *Active Duty family member;
ELSE IF DBENCAT='GRD' THEN XBENCAT=3; *Active reservist;
ELSE IF DBENCAT='DGR' THEN XBENCAT=4; *Dependent of Reservist;
ELSE IF DBENCAT='IGR' THEN XBENCAT=5; *Inactive Reservist";
ELSE IF DBENCAT='IDG' THEN XBENCAT=6; *Dependent of Inactive Guard";
ELSE IF DBENCAT IN ('RET', 'DR', 'DS') THEN DO;
   IF 17 <= INPUT(FIELDAGE, 8.) < 65 THEN XBENCAT=7; *Retired or Dependent of Retiree <65;
   ELSE IF INPUT(FIELDAGE,8.) > = 65 THEN XBENCAT=8; *Retired or Dependent of Retiree >=65;
END;
/*ADD XINS_RSV, XENR_RSV. JMA 1/22/2007 */
We also need to redefine xins_cov, call it xins_rsv,
which is the same as xins_cov but where
reservists are separated from other active duty - xins_cov will =1 if active duty,
but not active reservist or inactive reservist.
Similarly we need xenr_rsv which is xenr_pcm but reservists will not be treated as active duty
ie xenr_pcm=1 if active duty but not reservist. We also need to define another category
for xins_rsv, xins_rsv=9 for tricare reserve select -we also need to account for the value
```

```
Use H13003 for this.
These new variables will be used in the beneficiary reports -
we will not start reporting on tricare reserve select separately until later in the year -
for now we will include it in std/extra
/* XINS_RSV--INSURANCE COVERAGE DISTINGUISHING RESERVISTS FROM ACTIVE DUTY*/
 IF XENRLLMT = 1 THEN DO;
    IF XBENCAT IN (1) THEN XINS_RSV =1;
                                                                      /* Prime <65-Active Duty
(Non reservists) */
    ELSE IF XBENCAT IN (3,5) THEN XINS_RSV=10;
                                                                       /* Prime <65-Active Duty
(Reservists) */
 ELSE IF 17 <= INPUT(FIELDAGE, 8.) < 65 AND H13003 IN (1) THEN XINS_RSV = 2; /* Prime <65-Non-
active Duty */
 ELSE IF H13003 = 3 THEN XINS RSV = 3;
                                                                      /* Standard/Extra */
                                                                      /* Plus and Medicare */
 ELSE IF H13003 = 11 THEN XINS_RSV = 7;
                                                                      /* Medicare*/
 ELSE IF H13003 = 4 THEN XINS_RSV = 4;
 ELSE IF H13003 IN (5,6, 7, 8, 9, 13) THEN XINS_RSV = 5;
                                                                     /* Other civilian health
insurance*/
                                                                     /* Veterans Administration
 ELSE IF H13003 = 10 THEN XINS RSV = 8;
(VA) */
 ELSE IF H13003 = 12 THEN XINS_RSV = 9;
                                                                     /* TRICARE Reserve Select */
 ELSE IF H13003 = 14 THEN XINS_RSV = 11;
                                                                     /* TRICARE Retired Reserve -
MER 06/21/11 */
 ELSE IF 21 <= INPUT(FIELDAGE, 8.) <= 26
    AND H13003 = 15 THEN XINS_RSV = 12;
                                                                      /* TRICARE Young Adult - MER
06/21/11 */
 ELSE IF H13003 = 16 THEN XINS_RSV = 13;
                                                                      /* CHCBP - MER 06/21/11 */
 ELSE IF (INPUT(FIELDAGE, 8.) >= 65 AND XENRLLMT = 5 and H13003 = 1) THEN XINS_RSV = 6; /*
Prime, >= 65 */
 ELSE IF H13075=1 AND H13076=1 AND H13003 NE .N THEN XINS_RSV = 4;
Medicare/Medicaid */
/* XENR_RSV--ENROLLMENT DISTINGUISHING RESERVISTS FROM ACTIVE DUTY */
IF 17 <= INPUT(FIELDAGE,8.) < 65 THEN DO;</pre>
  IF INPUT(ENBGSMPL,8.) = 1 THEN DO;
     IF XBENCAT IN (1) THEN XENR_RSV = 1;
                                                                 /* Active duty (<65) Non
reservists */
     ELSE IF XBENCAT IN (3,5) THEN XENR_RSV = 8;
                                                                /*
                                                                      Active duty (<65) Reservists
  END;
                                                                /*
  ELSE IF INDUT(ENBGSMPL,8.) IN (2, 5) THEN XENR_RSV = 3;
ELSE IF INDUT(ENBGSMPL 0.) THEN XENR_RSV = 3;
                                                                     Enrolled (<65) - mil PCM */
                                                                /* Enrolled (<65) - civ PCM */
  ELSE IF INPUT(ENBGSMPL, 8.) IN (4, 7,11) THEN XENR_RSV = 4; /* Not Enrolled (<65)
ELSE IF INPUT(FIELDAGE, 8.) > = 65 THEN DO;
   IF INPUT(ENBGSMPL, 8.) = 10 THEN XENR RSV = 5;
                                                               /* Not Enrolled (65+)
                                                                /* Enrolled (65+)-mil PCM */
   IF INPUT(ENBGSMPL,8.) = 9 THEN XENR_RSV = 6;
                                                                /* Enrolled (65+)-civ PCM
   IF INPUT(ENBGSMPL,8.) = 8 THEN XENR_RSV = 7;
  /*JMA Feb 5, 2010 Capping/Recode dagegy and fieldage by combining 18 and below and 86 and
above. */
  IF INPUT(DAGEOY, 8.)=.
                                  THEN RDAGEOY=.;
   ELSE IF INPUT(DAGEQY, 8.) LT 18 THEN RDAGEQY=18;
   ELSE IF INPUT(DAGEQY, 8.) GT 86 THEN RDAGEQY=86;
   ELSE RDAGEQY=INPUT(DAGEQY,8.);
   IF INPUT(FIELDAGE,8.)=.
                                   THEN RFLDAGE=.;
   ELSE IF INPUT(FIELDAGE, 8.) LT 18 THEN RFLDAGE=18;
   ELSE IF INPUT(FIELDAGE, 8.) GT 86 THEN RFLDAGE=86;
   ELSE RFLDAGE=INPUT(FIELDAGE,8.);
RUN;
PROC FREQ DATA=CONVARQ;
  TABLES JSFLAG*CACSMPL/LIST MISSING;
```

covered by insurance of another country - that should be classified as civilian insurance.

TITLE3 'Comparison of Joint Service flag vs. CACSMPL';

```
RUN;
DATA CONVARQ2;
  SET CONVARO;
  WHERE FNSTATUS=11;
/* CHECK RECONSTRUCTED 2013 VARIABLES */
PROC FREQ DATA=CONVARQ2;
TABLES XENRLLMT XENR_PCM XINS_COV XBENCAT XENR_RSV XINS_RSV XREGION XTNEXREG
       XBMICAT ENBGSMPL XBNFGRP
       KMILOPQY KCIVOPQY HP_PRNTL HP_MAMOG HP_MAM50 HP_PAP HP_BP HP_FLU
       HP_SMOKE KCIVINS OUTCATCH
       HP_SMKH3 HP_CESH3 XBMI HP_OBESE XOCONUS SERVAREA
        / MISSING LIST;
TITLE3 'ONE WAY FREQUENCIES ON 2013 RECONSTRUCTED VARIABLES';
/* CROSSTABS TO CHECK RECONSTRUCTION OF 2013 VARIABLES */
/* COLLAPSE AGE FOR CROSSTABS */
   PROC FORMAT;
    VALUE SAGE
             "017" -< "065" = "LESS THAN 65"
             "065" -< "120" = "65 OR OLDER"
             " () "
                   = "Out of range err"
                     = "Missing/unknown" ;
  RUN;
   PROC FREO DATA=CONVARO2;
   TABLES
           FIELDAGE*ENBGSMPL*XENRLLMT
           FIELDAGE*ENBGSMPL*XENR_PCM
          FIELDAGE*XENRLLMT*H13003*H13075*H13076*XINS_COV
          DBENCAT*XBENCAT
           FIELDAGE*ENBGSMPL*XENR_RSV*XENR_PCM
          FIELDAGE*XENRLLMT*H13003*H13075*H13076*XINS_COV*XINS_RSV
           XTNEXREG*XREGION*CACSMPL
           XREGION*USA
           FIELDAGE*ENBGSMPL*XBNFGRP
          H13005*H13013*KMILOPQY
           H13005*H13013*KCIVOPQY
          H13062*H13063*H13064*HP_PRNTL
          XSEXA*H13059B*HP_PAP
           H13049*H13050*HP_BP
           FIELDAGE*H13051*HP_FLU
          H13054*HP_SMOKE
          H13002I*H13002J*H13002G*KCIVINS
           OUTCATCH*CACSMPL
           H13052*H13053*HP_SMKH3
           HP_SMKH3*H13054*HP_CESH3
           H13071F*H13071I*H13072*XBMI
           XBMICAT*HP OBESE
           XREGION*XOCONUS*USA
           / MISSING LIST;
           FORMAT XSEXA HASEX. FIELDAGE $AGE.
                  XBMICAT XBMICAT.
     TITLE3 'CROSSTABS ON NEW VARIABLES';
            RUN;
   PROC FREQ DATA=CONVARQ2;
      tables XTNEXREG*XREGION*CACSMPL
             XTNEXREG*XREGION*CACSMPL*D_HEALTH*DCATCH
             ENBGSMPL*CACSMPL*SERVAREA
             RDAGEQY*DAGEQY
             RFLDAGE*FIELDAGE
          / MISSING LIST;
```

```
run;
/* COLLAPSE FOR MAMMOGRAPHY, BREAST CANCER, AND PROSTATE XTABS*/
  PROC FORMAT;
    VALUE $AGE2_
             "017" - "049" = "LESS THAN 50"
             "050" -< "120" = "50 OR OLDER"
                   = "Out of range err"
                     = "Missing/unknown" ;
    VALUE $AGE3_
             "017" - "039" = "LESS THAN 40"
             "040" -< "120" = "40 OR OLDER"
                  = "Out of range err"
             "O"
            11 11
                    = "Missing/unknown" ;
            RUN ;
        PROC FREQ DATA=CONVARQ2;
            TABLES XSEXA*FIELDAGE*H13061*HP_MAM50
                   /MISSING LIST;
                   FORMAT FIELDAGE $AGE2_. XSEXA HASEX.;
        RUN;
        PROC FREQ DATA=CONVARQ2;
            TABLES XSEXA*FIELDAGE*H13061*HP_MAMOG
                   /MISSING LIST;
                   FORMAT FIELDAGE $AGE3_. XSEXA HASEX.;
        RUN;
  PROC FORMAT;
    VALUE $AGE4_
            "017" - "020" = "LESS THAN 21"
             "021" - "026" = "21 TO 26"
             "027" -< "120" = "27 OR OLDER"
                   = "Out of range err"
             . .
                     = "Missing/unknown" ;
            RUN ;
        PROC FREO DATA=CONVARO2;
            TABLES FIELDAGE*H13003*XINS_COV*XINS_RSV
                   /MISSING LIST;
                   FORMAT FIELDAGE $AGE4_.;
        RUN;
  PROC FREQ DATA=CONVARQ2(WHERE=(XINS_COV=10));
     TABLES DBENCAT DBENCAT*FIELDAGE/list missing;
     TITLE "DBENCAT frequencies for TRICARE Retired Reserve";
  PROC CONTENTS DATA=OUT.CONVARQ;
```

RUN;

F.4.B Q3FY2013\PROGRAMS\CONSTRUCT\CONSTRUCT_CACSMPL.SAS - Include file for Convarg.sas.

```
*******************
*** Project: Health Care Survey of DoD Beneficiaries - Adult
*** Purpose: Create cacsmpl for the reporting purpose for adult survey
***
*** Program: construct_cacsmpl.sas
***
*** Inputs: extract.sas7bdat: Extracted DoD data set
***
           TMA.sas7bdat: DMIS information
***
            frame_cacsmpl.inc: Include file
*** Outputs: construct_cacsmpl.sas7bdat - the adult frame with cacsmpl in
***
*** Note: 01/03/2007 by Haixia Xu
***
         This program is copied from q4fy2006 sampling,
         and modified for Q2FY2007 to create the cacampl to be used for reporting, not for
sampling purpose
*** Set up options. ***;
options ls=132 ps=79 compress=yes nocenter; * mprint mlogic symbolgen;
*** Set up the input and output paths. ***;
             "K:\Q3FY2013\"; /* extract.sas7bdat */
libname ext
libname inTMA
               "..\..\Data\AFinal"; /* TMA.sas7bdat */
              "..\..\Data\AFinal"; /* construct_cacsmpl.sas7bdat */
libname out
*** Set up the titles. ***;
title1 'Program: Construct_cacsmpl.SAS';
title2 'Construct cacsmpl for reporting';
data frame;
set ext.extract;
run;
title4 'Freq of PRRECFLG in the frame';
proc freq data=frame;
tables PRRECFLG/ missing list;
/* MER 06/22/09 Added the following blocks to */
/* facilitate merge of selectq with the frame.*/
/* Resulting dataset renamed sample instead of*/
/* frame. */
proc sort data=frame;
  by mprid;
run;
data sample;
  merge frame(in=a) selectq(in=b keep = mprid);
  by mprid;
  if b=1;
run;
* Added q2 2003, Don and Keith created a template to be used each quarter;
* The code below and the include file construct cacsmpl
* and collapse historically small catchment areas;
data TMA (keep = geocell d_par d_fac d_instal d_health d_dmis servaff);
  set inTMA.TMA;
  ***Extract the facility service code variable(servaff) starting with the November 2004TMA
spreadsheet in Q1,2005;
  rename facility_Type_Code=d_fac
         installation_Name=d_instal
         dmis_facility_Name=d_dmis
         facility_Service_Code=servaff ;
  length d_par $4.;
  d_par = DMIS_PARENT_ID;
```

```
length geocell $4.;
  geocell = DMIS_ID;
  length d_health $2.;
  d_health = HEALTH_Service_region;
run;
title4 "Freq of servaff, d_fac in TMA spreadsheet";
proc freq data=TMA;
tables servaff d_fac/missing list;
run;
%include "construct_cacsmpl.inc" ;
data out.construct_cacsmpl;
 set t_sample(keep=mprid cacsmpl); /* MER 06/22/09 renamed from t_framea */
run;
title4 'Freq of cacsmpl';
proc freq data=out.construct_cacsmpl;
tables cacsmpl/missing list;
run;
title4 'Information for the Sample';
proc contents data = out.construct_cacsmpl;
run;
********** The End **********;
```

F.4.C Q3FY2013\PROGRAMS\CONSTRUCT\CONSTRUCT_CACSMPL.INC - Include file for Construct Cacsmpl.SAS.

```
*******************
*** Project:
                  Health Care Survey of DoD Beneficiaries - Quarterly/Annual Adult Dataset
*** Program:
                  Construct_cacsmpl.inc -- include file used in construct_cacsmpl.sas
*** Note: 01/04/2007 by Haixia Xu
         This program is copied from q4fy2006 sampling,
***
         and modified for q1fy2007 to create the cacampl to be used for reporting, not for
sampling purpose
*************************
DATA SAMPLE; /* MER 06/22/09 renamed from FRAME to SAMPLE */
  SET SAMPLE;
  if pcm='MTF' then do;
     /* Use the list produced by sampling program for the current quarter */
     %include "..\sampling\assigngeocell.inc" /source2;
     /* all the old assignments from frame.inc for q2, 2005 */
     else if ('1976' <= enrid <= '1980' ) or ( '6301' <= enrid <= '6323' ) or
        ('6991' <= enrid <= '6994') or ('6501' <=enrid <='6512') or
        ('7166' <= enrid <= '7195') or ( '6700' <= enrid <= '6881' ) or enrid='0000'
        then geocell=dcatch; *administrative assignment 1976-1980 added q4 2002, 6700-6881 added
q1 2004,
                            0000 added q1,2005;
      else if ('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919')
        then geocell = dcatch; *Managed care contractor assignment, added in q1 2005; *8001-8036
     else if ('3031' <= enrid <= '3057')
        then geocell = dcatch; ***On board ship***;
     else if enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208',
'0250',
                      '0449', '0626', '0012')
        then geocell = dcatch; ***Inactive***; *0626 added q2 2003, 0012 added q4 2003,
                                             0041, 0044, 0082, 0111, 0213, 0235, 0585 added
q2 2005;
     else if enrid = ' ' then geocell = dcatch; ***enrolled, but missing ENRID, added q2
     ************************
     else if ('0190' <= enrid <='0199') then geocell = dcatch; **BYDON;
     else geocell = enrid;
  end;
  else geocell=dcatch;
RUN;
title4 "Check the correctness of the assignments of geocell";
proc freq data=sample;
tables enrid*geocell*dcatch/missing list;
where pcm='MTF';
proc sort nodupkey data=TMA;
 by geocell;
run;
proc sort data=sample;
 by geocell;
run;
data sample2 sa_only fy_only; /* MER 06/22/09 renamed from frame2 and fr_only */
  merge sample (in=insa) TMA (in=infy);
  by geocell;
```

```
if insa=1 and infy=1 then output sample2;
else if insa=1 and infy=0 then output sa_only;
else if insa=0 and infy=1 then output fy_only;
title4 "The records in the sample but not in TMA spreadsheet";
proc print data=sa_only;
/*AMK 7/10/13 - OUTPUT RECORDS IN SA_ONLY*/
DATA OUT.sa_only;
SET sa_only;
RIIN;
title4 "Freq of PCM*d_fac in the sample";
proc freq data=sample2;
tables pcm*d_fac/missing list;
run;
data t_sample; /* MER 06/22/09 renamed from t_framea */
  set sample2;
  **********
  com geo=geocell;
  ****************
  if pcm='MTF' then do;
     /* Use the list produced by the sampling program for the current quarter */
     %include "..\Sampling\assigncom_geo.inc" / source2;
     /* all the old assignments from frame.inc for q2, 2005 */
     else if ('1976' <= enrid <= '1980') or ('6301' <= enrid <= '6323') or
        ('6991' <= enrid <= '6994') or ('6501' <= enrid <= '6512') or
        ('7166' <= enrid <= '7195') or ('6700' <= enrid <= '6881') or enrid='0000'
        then com_geo = geocell; *Administrative assignment--1976-1980 added q4 2002. 0000 added
q1,2005;
      else if ('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919')
        then com_geo = geocell; *Managed care contractor assignment, added in q1, 2005;*8001-
8036 added q2 2005;
     else if ('3031' <= enrid <= '3057')
       then com_geo = geocell; ***On board ship***;
     else if enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208',
'0250',
                      '0449', '0626', '0012')
     then com_geo = geocell; ***Inactive***; *'0626' added q2 2003, 0012 added q4 2003,
                                            0041, 0044, 0082, 0111, 0213, 0235, 0585 added q2
2005;
     else com_geo = d_par;
  end;
  else if patcat='ACTDTY' then com_geo=d_par;
  ***Made the following 9 Navy sites stand alone in q1,2005: ***;
  ***'0026','0068','0231','0378','0387','0405','0407','0508','6215'***;
  if geocell in ('0026','0068','0231','0378','0387','0405','0407','0508','6215') then
com geo=geocell;
  ***********************************
  *** Collapsing small areas with nearest facility ***;
  *****************************
  **********************
  *** Collapsed the following 9 Air force sites to achieve the sample ***;
  *** size of 50000 due to making 9 Navy sites stand alone in q1,2005:***;
  *** '0013','0036','0059','0090','0287','0326','0638','0805','7139'. ***;
```

```
*********************
           com_geo in ('0074','0416')
                                            then com geo='0001';
   else if com_geo in ('0203','0130','0417',
                       '7044','7047')
                                            then com_geo='0005';
   else if com_geo in ('0418','0419','7083',
                       '0015','0287')
                                            then com_geo='0014'; *0287 added in q1,2005 by
Haixia;
   else if com_geo in ('0018','0248')
                                            then com_geo='0019';
   else if com_geo in ('7046')
                                            then com_geo='0029'; *By emf added q4 2003;
                                            then com_geo='0037';
   else if com_geo in ('0420')
   else if com_geo in ('0422')
                                            then com_geo='0038';
   else if com_geo in ('0421','7048','0050') then com_geo='0039';
                                            then com\_geo='0043'; /*changed from 0045 to 0043 in
   else if com_geo in ('7139')
q1fy2007 reporting due to different xregion*/
   else if com_geo in ('7043')
                                            then com_geo='0052';
   else if com_geo in ('0427')
                                             then com_geo='0056'; *By emf added q3 2003;
   else if com_geo in ('0076')
                                            then com_geo='0058';
   else if com_geo in ('0423')
                                            then com_geo='0064';
   else if com_geo in ('0413','0428','0326',
                       '0036')
                                            then com_geo='0066'; *Taken out 0068, added 0036,
0326 in q1,2005 by Haixia;
                                            then com_geo='0067';
   else if com_geo in ('0424')
   else if com_geo in ('0306')
                                            then com_geo='0069';
   else if com_geo in ('0059')
                                   then com_geo='0078'; *changed in g1,2005;
  else if com_geo in ('0081','5196') then com_geo='0083'; else if com_geo in ('0081','5196')
                                            then com_geo='0086'; *By emf added q1 2003;
   else if com_geo in ('0430','0335','7143') then com_geo='0089';
                                            then com_geo='0096'; *0013 added in q1,2005 by
   else if com_geo in ('0013')
Haixia;
  else if com_geo in ('0338', '0097')
                                                     then com_geo='0098'; /*moved 0338 from 0078
to here due to different xregion*/
   else if com_geo in ('0356')
                                            then com_geo='0103';
   else if com_geo in ('0084')
                                            then com_geo='0108';
   else if com_geo in ('0363','7082','1587') then com_geo='0109';
   else if com_geo in ('0364')
                                            then com_geo='0112';
   else if com_geo in ('0114')
                                            then com_geo='0117';
   else if com_geo in ('0077')
                                            then com_geo='0119';
   else if com_geo in ('0432','0433','0090') then com_geo='0120'; *Added 0090 in q1,2005 by
                                            then com_geo='0121'; *Uncollapse 0122(KENNER AHC-FT.
  *else if com_geo in ('0122')
LEE)
                                                                  to make it a seperate cacsmpl
in q1,2005 by Haixia;
   else if com_geo in ('0431','0434','0395',
                       '1646')
                                            then com_geo='0125';
   else if com_geo in ('0435')
                                            then com_geo='0126';
   else if com_geo in ('7045')
                                            then com_geo='0128';
   else if com_geo in ('0106','7200','0093',
                      '0094')
                                            then com_geo='0129'; *Changed in q1,2005 by Haixia;
  *Collapse 0093,0094 with an Air Force site in the west TNEX region, 0129, instead of the south
TNEX region, 0096;
   else if com_geo in ('0310','0425','0426') then com_geo='0321';
   else if com_geo in ('0808')
                                            then com_geo='0609';
   else if com_geo in ('0618','0623','0629',
                       '0624','0635','0825') then com_geo='0617';
/* comment it out in q1fy2007 for reporting
   else if com_geo in ('0802', '0616','0615',
                       '7042','5197')
                                            then com_geo='0620'; *0616 added in q3,2004 by
Haixia;
   else if com_geo in ('0802')
                                then com_geo='0620'; /*xregion=14*/
   else if com_geo in ('0616','7042','5197') then com_geo='0615'; /*xregion=15*/
   else if com_geo in ('8931')
                                            then com_geo='0633';
   else if com_geo in ('0610','0639','0637',
                       '0638')
                                            then com_geo='0640'; *changed in q1,2005;
                                            then com_geo='0806'; *0805 added in q1,2005 by
   else if com_geo in ('0805','8982')
   else if com_geo in ('0034','0035','0100') then com_geo='6223'; *changed emf q1 2004;
   *** added on 01/27/2004 by Haixia Xu to collapse small cells
       for the facility type of TGRO into out of catchment area;
```

F.4.D Q3FY2013\PROGRAMS\CONSTRUCT\CONSVAR0.SAS - Include file for Convarq.sas.

```
*******************
 PROGRAM: CONSVARO.SAS
            1999 DOD HEALTH CARE SURVEY ANALYSIS (8676-100)
  PURPOSE: Create XREGION and CONUS
  WRITTEN: February 11, 2000
  MODIFIED: 1) February 23, 2000 By Keith Rathbun. Converted into an include
               file. Updated code accordingly.
             2) February 26, 2001 By Keith Rathbun. Added recode for CACSMPL
               weighting purposes.
             3) September 13, 2004 By Keith Rathbun. Added 6223 to XREGION=1.
             4) September 15, 2004 By Keith Rathbun. Recoded XREGION=0 to missing.
            5) September 28, 2004 By Jacqueline Agufa-Maloba. Created XTNEXREG.
             6) February 9, 2005 by Lucy Lu. Fix catchment and xreg.
            7) March 16,2005 by Jacqueline Agufa-Maloba. Update XREGION for
               cases where CACSMPL=9901,9902,9903,9904. XREGION had a value of
               17,18 or 19 and will be changed to values from the dataset
               region_map01.sas7bdat
             8) May 22, 2005 By Jacqueline Agufa. Added 0405 to XREGION=3 and
               0231, 0407, 6215 to XREGION=9.
             9) July 6, 2006 by Lucy Lu. Add XOCONUS (region 13,14,15) for Q3 FY2006
             10) February 6, 2007 by Jacqueline Agufa. Moved the code to create SERVAREA from
                MERGESYN.sas to here.
             11) January 16, 2009 by Mike Rudacille. Changed CONUS variable name to USA
     NOTES: 1) This file needs to be included in the CONVARQ.SAS program.
*******************
* Assign XREGION using CACSMPL
*******************
       CACSMPL IN (0035, 0036, 0037, 0066, 0067,
                   0068, 0069, 0081, 0086, 0100,
                   0123, 0306, 0310, 0321, 0326,
                   0330, 0385, 0413, 6201, 6223) THEN XREGION= 1;
ELSE IF CACSMPL IN (0089, 0090, 0091, 0092, 0120,
                   0121, 0122, 0124, 0335, 0378, 0387, 0432, 0433, 0508, 7143, 7286, 7294) THEN XREGION= 2;
ELSE IF CACSMPL IN (0039, 0041, 0045, 0046, 0047,
                   0048, 0049, 0050, 0051, 0101,
                   0103, 0104, 0105, 0337, 0356,
                   0405, 0422, 0511, 5191 ) THEN XREGION= 3;
ELSE IF CACSMPL IN (0001, 0002, 0003, 0004, 0038,
                   0042, 0043, 0073, 0074, 0107, 0297, 7139 ) THEN
                                       ) THEN XREGION= 4;
ELSE IF CACSMPL IN (0055, 0056, 0060, 0061, 0095,
                   5195, 9905
                                    ) THEN XREGION= 5;
ELSE IF CACSMPL IN (0013, 0062, 0064, 0096, 0097,
                   0098, 0109, 0110, 0112, 0113,
                   0114, 0117, 0118, 0338, 0363,
0364, 0365, 0366, 1350, 1587, 1592, 7236, 9906
ELSE IF CACSMPL IN (0008, 0009, 0010, 0079, 0083,
                                                                    ) THEN XREGION= 6;
                   0084, 0085, 0108, 9907
                                               ) THEN XREGION= 7;
ELSE IF CACSMPL IN (0031, 0032, 0033, 0053, 0057,
                   0058, 0059, 0075, 0076, 0077,
                   0078, 0093, 0094, 0106, 0119,
                   0129, 0252, 7200, 7293, 9908
                                                           ) THEN XREGION= 8;
ELSE IF CACSMPL IN (0018, 0019, 0024, 0026, 0029, 0030,
                   0131, 0213, 0231, 0248, 0407, 5205,
                   6215, 9909 ) THEN XREGION= 9;
ELSE IF CACSMPL IN (0014, 0015, 0028, 0235, 0250,
                   9910
                                               ) THEN XREGION=10;
ELSE IF CACSMPL IN (0125, 0126, 0127, 0128, 0395, 1646,
                   9911
                                                ) THEN XREGION=11;
ELSE IF CACSMPL IN (0052, 0280, 0287, 0534, 7043, 9912 ) THEN XREGION=12;
ELSE IF CACSMPL IN (0606, 0607, 0609, 0617, 0618,
                   0623, 0624, 0629, 0633, 0635,
                   0653, 0805, 0806, 0808, 0814,
8931, 8982, 9913
ELSE IF CACSMPL IN (0610, 0612, 0620, 0621, 0622,
                                                ) THEN XREGION=13;
                   0637, 0638, 0639, 0640, 0802,
```

```
0804, 0853, 0862, 9914
                                                 ) THEN XREGION=14;
ELSE IF CACSMPL IN (0449, 0613, 0615, 0616, 9915 ) THEN XREGION=15;
                                             ) THEN XREGION=16;
ELSE IF CACSMPL IN (0005, 0006, 0203, 9916
ELSE IF CACSMPL = 9999
                                                    THEN XREGION= .;
*IF CACSMPL IN (9901,9902,9903,9904) THEN XREGION=D_HEALTH+0; *JMA 2/17/2005;
/* JMA 5/18/2005 These values were gotten from UpdateXregion.lst
  We needed to update the missing XREGION for cases where CACSMPL IN
   9901,9902,9903,9904
   -per Eric Schone
   -FOR Q1 2005
IF CACSMPL IN (9901,9902,9903,9904) THEN DO;
   IF D_HEALTH NOT IN ('00','17','18','19') THEN DO;
     XREGION=INPUT(D_HEALTH,8.)+0;
   END;
   ELSE DO;
      '0931', '0933', '0939', '0940', '0946',
                     109951)
      THEN XREGION=1;
      ELSE IF DCATCH IN ('0124', '0934', '0996')
           THEN XREGION=2;
      ELSE IF DCATCH IN ('0039', '0048', '0105', '0911', '0941',
                          '0987')
           THEN XREGION=3;
      ELSE IF DCATCH IN ('0003', '0787', '0901', '0925', '0943', '0988', '0989')
           THEN XREGION=4;
      ELSE IF DCATCH IN ('0055', '0056', '0061', '0782', '0783', '0789', '0914', '0915', '0918', '0923', '0936', '0950')
           THEN XREGION=5;
      ELSE IF DCATCH IN ('0113', '0904', '0937', '0990', '0993')
           THEN XREGION=6;
      ELSE IF DCATCH IN ('0785', '0929', '0932')
           THEN XREGION=7;
      ELSE IF DCATCH IN ('0078', '0784', '0788', '0906', '0917', '0924', '0927', '0928', '0935', '0942',
                          '0945', '0951', '0974')
          THEN XREGION=8;
      ELSE IF DCATCH IN ('0029', '0786', '0986')
          THEN XREGION=9;
      ELSE IF DCATCH IN ('0014', '0985')
           THEN XREGION=10;
      ELSE IF DCATCH IN ('0125', '0938', '0948', '0973')
          THEN XREGION=11;
      ELSE IF DCATCH IN ('0912')
           THEN XREGION=12;
      ELSE IF DCATCH IN ('0957', '0958', '0960', '0964', '0966',
                          '0967', '0976', '0977', '0979',
                          '0982')
           THEN XREGION=13;
      ELSE IF DCATCH IN ('0006', '0052', '0640', '0961', '0963',
                          '0965', '0978', '0983')
           THEN XREGION=14;
      ELSE IF DCATCH IN ('0075', '0120', '0615', '0622', '0953',
                          '0970', '0971', '0972', '0975')
           THEN XREGION=15;
      ELSE IF DCATCH IN ('0902')
          THEN XREGION=16;
        ELSE IF DCATCH IN ('0999') AND DHSRGN IN ('13','14','15')
/*
           THEN XREGION=DHSRGN+0;
  END;
END;
IF D_PAR = '0902' THEN XREGION=16;
IF XREGION = 0 THEN XREGION = .;
```

```
* Assign indicator of CONUS based on XREGION. CONUS stands for
* Continental United States it but includes both Alaska and Hawaii.
* 1/16/09 - Changed CONUS variable to USA.
IF XREGION IN (1,2,3,4,5,6,7,8,9,10,11,12,16) THEN USA=1;
ELSE IF XREGION IN (13,14,15)
ELSE IF XREGION = .
                                          THEN USA=.;
******************
* Assign XTNEXREG using XREGION
*****************************
IF XREGION IN (1,2,5) THEN XTNEXREG=1;
ELSE IF XREGION IN (3,4,6) THEN XTNEXREG=2;
ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNEXREG=3;
ELSE IF XREGION IN (13,14,15) THEN XTNEXREG=4;
ELSE IF XREGION = . THEN DO; /* MER 03/23/10 - If XREGION is missing, set XTNEXREG = TNEXREG */
  IF TNEXREG = 'N' THEN XTNEXREG=1;
  ELSE IF TNEXREG = 'S' THEN XTNEXREG=2;
  ELSE IF TNEXREG = 'W' THEN XTNEXREG=3;
  ELSE IF TNEXREG = 'O' THEN XTNEXREG=4;
  ELSE XTNEXREG=.;
END;
****************
* CREATE XOCONUS FOR europe, pacific, latin america
* Lucy Lu 7/6/06
***********************
      XREGION=13 THEN XOCONUS=1;
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;
  * Construct SERVAREA.
  IF ENBGSMPL IN ('04','07','10') THEN DO;
    SELECT (CACSMPL);
       WHEN (0024,0029)
                                 SERVAREA='01';
       WHEN (0032,0033) SERVAREA='02';
WHEN (0037,0066,0067,0123) SERVAREA='03';
WHEN (0038,0042) SERVAREA='04';
                              SERVAREA='05';
       WHEN (0049,0103,0104)
       WHEN (0091,0092)
                                 SERVAREA='06';
       WHEN (0098,0113)
                                SERVAREA='07';
       WHEN (0101,0105)
                               SERVAREA='08';
                               SERVAREA='09';
SERVAREA='10';
       WHEN (0109,0117)
       WHEN (0120,0121,0124)
       WHEN (0125,0126,0127)
                                 SERVAREA='11';
       OTHERWISE SERVAREA=' ';
     END;
  END;
```

F.5.A Q3FY2013\PROGRAMS\CONSTRUCT\MERGEQ.SAS - Merge Constructed Variables onto Data File.

```
* PROGRAM: MERGEO.SAS
* WRITTEN: 1/28/00 BY KELLY WHITE
* MODIFIED: 3/1/00 BY NATALIE JUSTH
* MODIFIED: 11/16/00 BY JOAN JAMES
* MODIFIED: 1/30/01 BY NATALIE JUSTH
* MODIFIED: 6/6/01 BY NATALIE JUSTH FOR Q2 UPDATES
* MODIFIED: 8/20/01 BY NATALIE JUSTH FOR Q3 UPDATES
* MODIFIED: 12/13/01 BY NATALIE JUSTH FOR Q4 UPDATES
* MODIFIED: 2/11/02 By Daniele Beahm to delete H00077 variable and reassign format for
            S00S01 variable
* MODIFIED: 4/11/02 By JACLYN WONG FOR Q1 UPDATES
* MODIFIED: 6/21/02 by JACLYN WONG FOR Q2 UPDATES
* MODIFIED: 7/1/2002 By Daniele Beahm to delete SF8 variables not used for Q2 2002
* MODIFIED: 10/16/2002 By Daniele Beahm to delete Q2 2002 Supplemental vars that were on the
            Q3 2002 data file from NRC.
* MODIFIED: 01/02/2003 By Keith Rathbun: Added ONTIME variable to support the annual
            version of the database (trickle indicator). This ONTIME variable is
            only applicable to the annual file and thus should be deleted for the
            quarterly version of this program.
* MODIFIED: 3/24/02 by JACLYN WONG FOR Q1 2003 UPDATES. Added HP_SMOKH, HP_CESS, and KPRSCPTN
* MODIFIED: 8/29/03 by NATALIE JUSTH FOR Q3 2003 UPDATES
* MODIFIED: 12/19/03 by NATALIE JUSTH FOR Q4 2003 UPDATES
* MODIFIED: 3/29/04 BY LUCY LU FOR Q1 2004 UPDATES
* MODIFIED: 6/10/04 BY LUCY LU FOR Q2 2004 UPDATES
* MODIFIED: 9/13/04 BY LUCY LU FOR Q3 2004 UPDATES
* MODIFIED: 11/10/04 BY LUC LU, DROP VARIABLE STIELIG.
* MODIFIED: 2/1/05 BY LUCY LU FOR Q4 2004 UPDATES
* MODIFIED: 2/17/2005 BY JACQUELINE AGUFA. Added code to get updated CACSMPL from
            REPWT.sd2
* MODIFIED: 5/3/05 BY LUCY LU FOR Q1 2005 UPDATES.
* MODIFIED: 10/24/05 BY LUCY LU FOR Q3 2005 UPDATES.
* MODIFIED: 11/1/05 BY J AGUFA. Dropped E1-E19
* MODIFIED: 12/21/05 BY LUCY LU FOR Q4 2005
* MODIFIED: 03/29/06 BY LUCY LU FOR Q2 FY 2006
* MODIFIED: 07/07/06 BY LUCY LU FOR q3 FY 2006
* MODIFIED: 10/07/06 BY LUCY LU FOR q4 FY 2006
* MODIFIED: 1/2/07 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 3/29/07 BY J AGUFA FOR q2 FY 2007
* MODIFIED: 7/05/07 BY J AGUFA FOR q3 FY 2007
* MODIFIED: 1/22/08 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 10/1/08 BY M RUDACILLE FOR q4 FY 2008
* MODIFIED: 12/1/10 BY M RUDACILLE FOR q1 FY 2011
* MODIFIED: 1/19/11 BY M RUDACILLE - Changed HP_CESH2 to HP_CESH3 * MODIFIED: 3/30/11 BY M RUDACILLE - Changed HP_SMKH2 to HP_SMKH3
* MODIFIED: 12/9/11 BY M RUDACILLE FOR q1 FY 2012
* MODIFIED: 12/15/12 BY M RUDACILLE FOR q1 FY 2013
* PURPOSE:
            TO MERGE FINAL FILES TOGETHER AND REORDER BY VARIABLE TYPE
             To reorder variables within the record use a
              LENGTH statement before the SET statement.
              Make sure that MPRID is the first variable in the
              record followed by:
                             1) other sampling variables
                             2)
                                DEERS variables
                             3) Post-stratification vars
                             4) questionnaire responses
                             5)
                                 DRC variables
                             6)
                                 recoded questionnaire responses
                             3)
                                 coding scheme flags
                             8) constructed variables
                             9)
                                 weights (NOT AVAILABLE FOR PRELIMINARY DATA)
             ..\..\DATA\AFINAL\SELECTQ.sas7bdat
* INPUT:
* INPUT:
            ..\..\DATA\AFINAL\CONVARQ.sas7bdat
* OUTPUT:
             ..\..\DATA\AFINAL\MERGEQ.sas7bdat
* INCLUDE:
             SERVAFF.SAS
             TO MERGE ON VARIABLE SERVAFF
                       *;
```

```
LIBNAME IN1 '...\DATA\AFINAL';
LIBNAME OUT '...\DATA\AFINAL';
LIBNAME LIBRARY '...\DATA\AFINAL\FMTLIB';
OPTIONS PS=78 LS=124 ERRORS=2 COMPRESS=YES VARLENCHK=NOWARN; *MPRINT;
%INCLUDE SERVAFF/SOURCE2;
                                   *LLU 2/9/05;
PROC SORT DATA=IN1.SELECTQ OUT=SELECTQ;
  BY MPRID;
RUN;
PROC SORT DATA=IN1.CONVARQ OUT=CONVARQ;
  BY MPRID;
RUN;
PROC SORT DATA=IN1.SERVAFF OUT=SERVAFF;
   BY MPRID;
RUN;
PROC FREQ DATA=SERVAFF;
  TABLES SERVAFF;
DATA MERGEQ (DROP =
H13001_O
H13002AO
H13002CO
H13002NO
н1300200
H13002PO
H13002QO
H13002SO
H13002TO
H13002UO
H13002FO
H13002GO
Н13002НО
H13002IO
H13002JO
Н13002КО
H13002MO
H13002RO
H13002LO
H13003_O
H13004_O
H13005_O
H13006_O
H13007_O
H13008_O
H13009 O
H13010_O
H13011_0
H13012_O
H13013_0
H13014_O
H13015_0
H13016_O
H13017_O
H13018_O
S13C09_O
S13C10_0
S13C11_0
S13C12_0
S13C13_0
S13C14_0
H13019_O
H13020_O
H13021_O
H13022_O
H13023_O
```

H13024_O H13025_O H13026_O H13027_O S13009_0 S13010_0 H13028_O H13029_O H13030_O H13031_O S13B01_0 S13B02_O S13B03_0 S13B04_O H13032_O H13033_O H13034_O H13035_0 H13036_O H13037_0 H13038_O H13039_0 H13040_O H13041_O H13042_O H13043_O H13044_O H13045_O H13046_O H13047_O H13048_O H13049_O H13050_O S13Q08_0 S13Q01_0 S13Q02_0 S13Q03_0 S13Q04_0 S13Q05_O H13051_O H13052_O H13053_O H13054_O H13055_O H13056_0 H13057AO H13057BO H13057CO H13057DO H13058_O H13059BO H13060_O H13061_O H13062_O H13063_O H13064_O H13065_0 H13066_O H13067_0 H13068_O H13069_O H13070_O S13B23_0 S13B24_0 S13B25_0 S13B26_0 H13071FO H13071IO H13072_O SREDA_O H13073AO H13073BO H13073CO

```
H13073DO
H13073EO
SRRACEAO
SRRACEBO
SRRACECO
SRRACEDO
SRRACEEO
SRAGE_O
H13074_O
H13075_O
H13076_0
H13077_O
H13078_O
H13079_O
S13011_0
S13014 O
PRRECFLG
D_DMIS
DMIS
R_MTF
GROUP
GRP_GEO
DELGIND
ELAPSED_SEC
SAMPLE_FLAG
);
   MERGE SELECTQ(in=hcsdb rename=(flag_fin=dummy)
                 DROP=PCM SERVAFF)
                                                    /*** JMA 2/9/11 ***/ /*AMK 7/10/13 DROP
SERVAFF*/
         CONVARQ
         /*** SERVAFF(DROP=PCM DCATCH); JMA 2/9/11 ***/
         SERVAFF(DROP=DCATCH ENRID); /*AMK 7/10/13 DROP ENRID*/
   BY MPRID;
   if hcsdb;
/*MAKE FLAG_FIN IN Q4 CHARACTER*/
   FLAG_FIN=PUT(DUMMY,5.);
                                          /*LLU 2/9/05*/
   DROP DUMMY;
FORMAT
   SERVAFF $SERVAFF.
   ENBGSMPL $ENBGS.
  CACSMPL CAC.
DBENCAT $BENCAT.
   DMEDELG $MEDELG.
   DSPONSVC $SPONSVC.
   FLAG_FIN $FINAL.
   FNSTATUS FNSTATS.
   MBRRELCD $MBRREL.
   MEDTYPE $MEDTYP.
   MRTLSTAT $MSTATUS.
   PATCAT $AGGBCAT.
  MISS_1 HAMISS.
MISS_4 HAMISS.
MISS_5 HAMISS.
   MISS_6 HAMISS.
   MISS_7 HAMISS.
MISS_9 HAMISS.
   MISS_TOT HAMISS.
   PCM
         $PCM.
   PNLCATCD $PNLCAT.
   PNSEXCD SSEXCD.
   RACEETHN $RACECD.
   SEXSMPL SEX.
   SVCSMPL SVCSMPL.
   XSEXA HASEX.
   SERVAREA $SRVAREA.
   MPCSMPL MPCSMPL.
```

```
D_HEALTH $DHEALTH.
  TNEXREG $TNEXREG.
  D_FAC
           $DFAC.
  MSM
           $MSM.
  XBMICAT XBMICAT.
  ENRID
           $ENRID.
  WEB
            WEB.
  XOCONUS XOCONUS.
  ACV
           $ACV2_.
  XSERVAFF XSERVAFF.
  PNTYPCD $PNTYPCD.
  MPRID
           $8.
                       /*Remove extra format space ($43) provided by NRC*/
;
LABEL
  ENBGSMPL = "Enrollment by beneficiary category"
  SERVAFF = "Service Affiliation"

MPCSMPL = "MPCSMPL - Military Personnel Category"
  FLAG_FIN = "Final Disposition"
  CACSMPL = "Catchment Area"
  WEB
           = "Web survey indicator"
           = "DMIS Parent ID"
  D PAR
  D_Health = "Health Service Region"
  TNEXREG = "TNEX Region - Based on Address"
           = 'Multiple Service Market Areas'
  MIQCNTL = 'Synovate ID'
  XSERVAFF = "Service Affiliation"
  SERVAREA = 'Service Area'
  COM GEO = "Catchment Area"
RUN;
PROC CONTENTS DATA=MERGEQ;
RUN;
DATA OUT.MERGEO;
   LENGTH
                             /* ID
      MPRID
                  $8
                  8
                              /* sampling variable */
      SVCSMPL
                             /* sampling variable */
      SEXSMPL
                   8
                             /* sampling variable */
/* sampling variable */
      STRATUM
                  $ 7
                 8
      CACSMPL
                             /* MER 01/09/13 - Added here because it is derived from CACSMPL */
      JSFLAG
                $ 2
                             /* sampling variable */
      ENBGSMPL
      MPCSMPL 8
NHFF 8
                              /* sampling variable */
                              /* sampling variable */
                $ 2
      SERVAREA
                             /* sampling variable */
                  $ 8
      QUARTER
                              /* sampling variable */
                              /* sampling variable */
      PRN
                   8
                  $ 4
                              /* sampling variable */
      DCATCH
                              /* sampling variable */
      ENRID
                  $ 4
      DMIS_ID
                  $ 9
                              /* sampling variable */
                  $ 2
                              /* sampling variable */
      MSM
      D_FAC
                  $ 9
                             /* sampling variable */
                              /* sampling variable */
      D_PAR
                  $ 4
                              /* sampling variable */
                  $ 2
      D_HEALTH
                              /* sampling variable */
      TNEXREG
                  $ 1
                              /* sampling variable */
      SERVAFF
                  $ 1
                              /* sampling variable */
      BWT
                    8
      COM GEO
                 $ 4
                              /* sampling variable */ /* MER 7/20/10 - Added to sampling vars so
it won't be */
                                                       /* at the end of the proc contents by
default anymore. */
                                                       /* This variable gets dropped in
                     * /
ADDWGTSA.sas.
```

MRTLSTAT	ė 1	/* DEERS variable	* /
	\$ 1	,	*/
RACEETHN	\$ 1	/* DEERS variable	,
PNSEXCD	\$ 1	/* DEERS variable	* /
DAGEQY	\$ 3	/* DEERS variable	* /
RDAGEQY	3	/* DEERS variable	* /
FIELDAGE	\$ 3	/* DEERS variable	* /
RFLDAGE	3	<pre>/* DEERS variable</pre>	* /
PCM	\$ 3	/* DEERS variable	* /
ACV	\$ 1	/* DEERS variable	* /
DBENCAT	\$ 3	/* DEERS variable	* /
DMEDELG	\$ 1	/* DEERS variable	*/
DSPONSVC	\$ 1	/* DEERS variable	*/
MBRRELCD	\$ 1	/* DEERS variable	*/
MEDTYPE	\$ 1	/* DEERS variable	* /
PATCAT	\$ 7	/* DEERS variable	* /
PNTYPCD	\$ 1	/* DEERS variable	* /
PNLCATCD	\$ 1	/* DEERS variable	* /
			. ,
н13001	4	/* questionnaire	* /
H13002A	4	/* questionnaire	* /
H13002C	4	/* questionnaire	* /
H13002N	4	/* questionnaire	* /
H130020	4	/* questionnaire	* /
H13002P	4	/* questionnaire	*/
H130020	4	/* questionnaire	*/
~			
H13002S	4	/* questionnaire	* /
H13002T	4	/* questionnaire	* /
H13002U	4	/* questionnaire	* /
H13002F	4	/* questionnaire	* /
H13002G	4	/* questionnaire	* /
н13002н	4	/* questionnaire	* /
H13002I	4	/* questionnaire	*/
H13002J	4	/* questionnaire	*/
		_	
H13002K	4	/* questionnaire	* /
H13002M	4	/* questionnaire	* /
H13002R	4	/* questionnaire	* /
H13002L	4	/* questionnaire	* /
H13003	4	/* questionnaire	* /
н13004	4	/* questionnaire	* /
н13005	4	/* questionnaire	*/
H13006	4	/* questionnaire	*/
H13007	4	/* questionnaire	*/
		_	
Н13008	4	/* questionnaire	* /
н13009	4	/* questionnaire	* /
H13010	4	/* questionnaire	* /
H13011	4	/* questionnaire	* /
H13012	4	/* questionnaire	* /
н13013	4	/* questionnaire	* /
н13014	4	/* questionnaire	*/
н13015	4	/* questionnaire	*/
H13016	4	/* questionnaire	*/
H13017	4	/* questionnaire	*/
H13018	4	/* questionnaire	* /
н13019	4	/* questionnaire	* /
H13020	4	/* questionnaire	* /
H13021	4	/* questionnaire	* /
H13022	4	/* questionnaire	* /
H13023	4	/* questionnaire	* /
н13024	4	/* questionnaire	*/
H13025	4	/* questionnaire	*/
H13025	4	/* questionnaire	*/
		_	
H13027	4	/* questionnaire	* /
н13028	4	/* questionnaire	* /
H13029	4	/* questionnaire	* /
н13030	4	/* questionnaire	* /
Н13031	4	<pre>/* questionnaire</pre>	* /
H13032	4	/* questionnaire	*/
H13033	4	/* questionnaire	*/
H13033	4	/* questionnaire	*/
H13034	4		*/
		/* questionnaire	
Н13036	4	/* questionnaire	* /

н13037	4	/* questionnaire	* /
H13037	4		*/
		_	
Н13039	4	/* questionnaire	*/
н13040	4	/* questionnaire	* /
H13041	4	/* questionnaire	*/
H13042	4	/* questionnaire	* /
H13043	4	/* questionnaire	* /
н13044	4	/* questionnaire	*/
		_	
Н13045	4	_	*/
н13046	4	/* questionnaire	* /
H13047	4	/* questionnaire	* /
H13048	4	/* questionnaire	* /
H13049	4	/* questionnaire	* /
н13050	4	/* questionnaire	*/
H13050	4		*/
		_	
н13052	4	/* questionnaire	* /
H13053	4	/* questionnaire	* /
H13054	4	/* questionnaire	* /
н13055	4	/* questionnaire	* /
н13056	4	/* questionnaire	*/
	4	- · · · · · · · · · · · · · · · · · · ·	*/
H13057A		/* questionnaire	
H13057B	4	_	* /
H13057C	4	/* questionnaire	* /
H13057D	4	/* questionnaire	* /
н13058	4	/* questionnaire	* /
H13059B	4	/* questionnaire	*/
		_	
н13060	4	/* questionnaire	* /
Н13061	4	/* questionnaire	* /
H13062	4	/* questionnaire	* /
H13063	4	/* questionnaire	* /
н13064	4	/* questionnaire	*/
H13065	4	- · · · · · · · · · · · · · · · · · · ·	*/
		_	
н13066	4	/* questionnaire	* /
H13067	4	/* questionnaire	* /
H13068	4	/* questionnaire	* /
H13069	4	/* questionnaire	* /
н13070	4	/* questionnaire	*/
H13071F	4	/* questionnaire	*/
		_	
H13071I	4	/* questionnaire	*/
H13072	4	/* questionnaire	*/
SREDA	4	/* questionnaire	* /
H13073	4	/* questionnaire	* /
H13073A	4	/* questionnaire	* /
H13073B	4	_	*/
		_	
H13073C	4	/* questionnaire	* /
H13073D	4	/* questionnaire	* /
H13073E	4	/* questionnaire	* /
SRRACEA	4	/* questionnaire	* /
SRRACEB	4	/* questionnaire	* /
SRRACEC	4	/* questionnaire	*/
SRRACED	4	/* questionnaire	*/
	4		
SRRACEE		/* questionnaire	*/
SRAGE	4	/* questionnaire	*/
H13074	4	/* questionnaire	* /
H13075	4	/* questionnaire	* /
н13076	4	/* questionnaire	* /
H13077	4		*/
	4	_	
H13078		/* questionnaire	* /
н13079	4	<pre>/* questionnaire</pre>	* /
S13C09	4	<pre>/* supplemental</pre>	* /
S13C10	4	/* supplemental	* /
S13C11	4	/* supplemental	*/
S13C12	4	/* supplemental	*/
S13C13	4		*/
S13C14	4	/* supplemental	* /
S13Q08	4	<pre>/* supplemental</pre>	* /
S13Q01	4	<pre>/* supplemental</pre>	* /
S13Q02	4	/* supplemental	* /
S13Q03	4	/* supplemental	*/
S13Q03	4		*/
	4		*/
S13Q05			
S13009	4	<pre>/* supplemental</pre>	* /

```
/* supplemental
S13010
                            /* supplemental
/* supplemental
/* supplemental
S13B01
                 4
S13B02
S13B03
                            /* supplemental
S13B04
                 4
                             /* supplemental
/* supplemental
S13B23
                 4
S13B24
                 4
                             /* supplemental
S13B25
S13B26
                            /* supplemental
                 4
                              /* supplemental
S13011
                 4
                            /* supplemental
S13014
                 4
                         /* Survey fielding variable */
/* Survey fielding variable */
              $ 3
ONTIME
FLAG FIN
               $ 5
                            /* Survey fielding variable */
DUPFLAG
               $ 3
             8
FNSTATUS
                            /* Survey fielding variable */
                              /* Survey fielding variable */
KEYCOUNT
                  8
                             /* Survey fielding variable */
WEB
                 8
MIQCNTL
                            /* Survey fielding variable */
              $ 12
                             /* CS flag variable
N1
                  8
                             /* CS flag variable
N2
               8
                             /* CS flag variable
               8
ИЗ
                              /* CS flag variable
N4
               8
                             /* CS flag variable
N5
                             /* CS flag variable
               8
N5A1
               8
8
                             /* CS flag variable
/* CS flag variable
N5A2
N5A3
                            /* CS flag variable
               8
N6
                            /* CS flag variable
/* CS flag variable
/* CS flag variable
/* CS flag variable
               8
8
8
N7
N8
N8_01
                            /* CS flag variable
N9
               8
                         /* CS flag variable
/* CS flag variable
/* CS flag variable
/* CS flag variable
              8
8
8
N10
N10_B1
N11
              8 /* CS flag variable
9 /* CS flag variable
1 /* CS flag variable
1 /* CS flag variable
2 /* CS flag variable
3 /* CS flag variable
8 /* CS flag variable
9 /* CS flag variable
N12
N13
N14
N15
N16
N17
N17_Q0
N17_Q1
N17_Q2
N18
                            /* CS flag variable
N19A
               8
                            /* CS flag variable
/* CS flag variable
               8
N19B
N20
               8
N21
                             /* CS flag variable
                             /* CS flag variable
N22
               8
               8
                             /* CS flag variable
/* CS flag variable
N23
N24
               8
                            /* CS flag variable
N25
                          /* CS Count
/* CS Count
               8
MISS_1
MISS_4
               8
                            /* CS Count
MISS_5
               8
                             /* CS Count
MISS_6
                  8
                             /* CS Count
MISS_7
                 8
                            /* CS Count
MISS_9
                 8
                            /* CS Count
MISS_TOT
                 8
                         /* constructed
/* constructed
XENRLLMT
                  8
XENR_PCM
               8
                            /* constructed
/* constructed
XINS_COV
                  8
XBENCAT
                  8
                            /* constructed
XENR_RSV
                  8
                             /* constructed
XINS_RSV
                  8
                              /* constructed
XREGION
                  3
                              /* constructed
XTNEXREG
                  3
                              /* constructed
USA
                  3
XOCONUS
                               /* constructed
```

F.5.B Q3FY2013\PROGRAMS\CONSTRUCT\SERVAFF.SAS - Merge SERVAFF variable to quarterly Data File.

```
/******************************
/* PROJECT: 8687-100 (DOD QUARTERLY 2001)
/* AUTHOR: NATALIE JUSTH
/* DATE:
         APRIL 24, 2001
/* UPDATED: JUNE 5, 2001 FOR QUARTER 2
/* UPDATED: AUGUST 20, 2001 FOR QUARTER 3
/* UPDATED: DECEMBER 13, 2001 FOR QUARTER 4
/ \, ^{\star} UPDATED: JANUARY 23, 2002 FOR MOVE TO DOD COMPUTER
/* UPDATED: FEBUARY 1, 2005 FOR Q4, 2004
/* PURPOSE: MERGE VARIABLE SERVAFF TO QUARTERLY DATASET
/* INPUT: ...\DATA\AFINAL\S200204.sas7bdat
            ...\DATA\AFINAL\SAMPLA02.sas7bdat
/* OUTPUT: ...\DATA\AFINAL\SERVAFF.sas7bdat
LIBNAME INr "K:\Q3FY2013\"; /*Restricted folder*/
LIBNAME TMA '..\..\DATA\AFINAL';
LIBNAME serv '..\..\DATA\AFINAL';
/* Create new DMIS merge variable
/* First use ENRID, then ULOCDMIS, then DCATCH */
DATA SAMPLA02(KEEP=DMIS_ID ENRID MSM MPRID PCM DCATCH);
  SET INr.SAMPLA02;
  LENGTH DMIS_ID $9;
  DMIS_ID=ENRID;
  IF DMIS_ID=' ' THEN DO;
      IF ULOCDMIS NE ' ' THEN DMIS_ID=ULOCDMIS;
      ELSE DMIS_ID=DCATCH;
   END;
   * Construct MSM.
   ***********************
   IF PCM = 'MTF' THEN DO;
      SELECT(DMIS_ID);
         WHEN ('0037', '0066', '0067', '0068', '0069',
               '0123', '0256', '0306', '0309', '0385', '0413') MSM='01';
         WHEN ('0120', '0121', '0124')
WHEN ('0089', '0335')
                                                                 MSM='02';
                                                                 MSM='03';
         WHEN ('0103', '0356')
                                                                 MSM='04';
         WHEN ('0101', '0105')
                                                                 MSM='05';
         WHEN ('0297', '0316', '0436', '0654', '1990', '0073') MSM='06';
         WHEN ('0109', '0117', '0363', '0366')
                                                                 MSM='07';
         WHEN ('0032', '0033', '0252', '7200')
WHEN ('0024', '0029')
                                                                 MSM='08';
                                                                 MSM='09';
         WHEN ('0125', '0126', '0127', '0395', '7138')
                                                                 MSM='10';
         WHEN ('0052', '0280', '0287')
                                                                 MSM='11';
         WHEN ('0204', '0006')
WHEN ('0005', '0203')
                                                                 MSM='12';
                                                                 MSM='13';
         OTHERWISE MSM=' ';
      END;
   END;
   ELSE DO;
      SELECT(DCATCH);
        WHEN ('0037', '0066', '0067', '0068', '0069', '0123', '0256', '0306', '0309', '0385', '0413') MSM='01'; WHEN ('0120', '0121', '0124') MSM='02';
         WHEN ('0089', '0335')
                                                                 MSM='03';
         WHEN ('0103', '0356')
                                                                 MSM='04';
         WHEN ('0101', '0105')
                                                                 MSM='05';
         WHEN ('0297', '0316', '0436', '0654', '1990', '0073') MSM='06';
WHEN ('0109', '0117', '0363', '0366') MSM='07';
WHEN ('0032', '0033', '0252', '7200') MSM='08';
```

```
WHEN ('0024', '0029')
                                                                    MSM='09';
         WHEN ('0125', '0126', '0127', '0395', '7138')
WHEN ('0052', '0280', '0287')
WHEN ('0204', '0006')
WHEN ('0005', '0203')
                                                                    MSM='10';
                                                                    MSM='11';
                                                                    MSM='12';
                                                                    MSM='13';
         OTHERWISE MSM=' ';
      END;
   END;
RUN;
PROC PRINT DATA=SAMPLA02(OBS=50);
PROC SORT DATA=SAMPLA02;
  BY DMIS_ID;
RUN;
PROC SORT DATA=TMA.TMA(KEEP=DMIS_ID FACILITY_SERVICE_CODE) OUT=TMA; /*LLU 5/11/05*/
  BY DMIS_ID;
RUN;
DATA SERV.SERVAFF;
  MERGE SAMPLA02(IN=IN1)
         TMA(RENAME=(FACILITY_SERVICE_CODE=SERVAFF));
   BY DMIS_ID;
   /* JMA 5/22/2006 Created numeric version of servaff */
   LENGTH XSERVAFF 3;
   IF SERVAFF='A' THEN XSERVAFF=1; *Army;
   IF SERVAFF='F' THEN XSERVAFF=2; *Air Force;
   IF SERVAFF='N' THEN XSERVAFF=3; *Navy;
   /***Coast Guard, Administrative, Support Contractor, USTF, Noncatchment,
   Other, Not available, Missing/unknown
    *** will collapsed to other per Eric Shone ***/
   IF SERVAFF IN ('C' 'J' 'M' 'T' 'S' 'O' 'X' ' ') THEN XSERVAFF=4; *Other;
   IF IN1;
RUN;
PROC PRINT DATA=SERV.SERVAFF(OBS=200);
RIIN;
PROC CONTENTS DATA=SERV.SERVAFF; RUN;
```

F.5.C Q1FY2013\PROGRAMS\CONSTRUCT\MERGEQ.SAS - Merge Constructed Variables onto Data File.

```
* PROGRAM: MERGEO.SAS
* WRITTEN: 1/28/00 BY KELLY WHITE
* MODIFIED: 3/1/00 BY NATALIE JUSTH
* MODIFIED: 11/16/00 BY JOAN JAMES
* MODIFIED: 1/30/01 BY NATALIE JUSTH
* MODIFIED: 6/6/01 BY NATALIE JUSTH FOR Q2 UPDATES
* MODIFIED: 8/20/01 BY NATALIE JUSTH FOR Q3 UPDATES
* MODIFIED: 12/13/01 BY NATALIE JUSTH FOR Q4 UPDATES
* MODIFIED: 2/11/02 By Daniele Beahm to delete H00077 variable and reassign format for
            S00S01 variable
* MODIFIED: 4/11/02 By JACLYN WONG FOR Q1 UPDATES
* MODIFIED: 6/21/02 by JACLYN WONG FOR Q2 UPDATES
* MODIFIED: 7/1/2002 By Daniele Beahm to delete SF8 variables not used for Q2 2002
* MODIFIED: 10/16/2002 By Daniele Beahm to delete Q2 2002 Supplemental vars that were on the
            Q3 2002 data file from NRC.
* MODIFIED: 01/02/2003 By Keith Rathbun: Added ONTIME variable to support the annual
            version of the database (trickle indicator). This ONTIME variable is
            only applicable to the annual file and thus should be deleted for the
            quarterly version of this program.
* MODIFIED: 3/24/02 by JACLYN WONG FOR Q1 2003 UPDATES. Added HP_SMOKH, HP_CESS, and KPRSCPTN
* MODIFIED: 8/29/03 by NATALIE JUSTH FOR Q3 2003 UPDATES
* MODIFIED: 12/19/03 by NATALIE JUSTH FOR Q4 2003 UPDATES
* MODIFIED: 3/29/04 BY LUCY LU FOR Q1 2004 UPDATES
* MODIFIED: 6/10/04 BY LUCY LU FOR Q2 2004 UPDATES
* MODIFIED: 9/13/04 BY LUCY LU FOR Q3 2004 UPDATES
* MODIFIED: 11/10/04 BY LUC LU, DROP VARIABLE STIELIG.
* MODIFIED: 2/1/05 BY LUCY LU FOR Q4 2004 UPDATES
* MODIFIED: 2/17/2005 BY JACQUELINE AGUFA. Added code to get updated CACSMPL from
            REPWT.sd2
* MODIFIED: 5/3/05 BY LUCY LU FOR Q1 2005 UPDATES.
* MODIFIED: 10/24/05 BY LUCY LU FOR Q3 2005 UPDATES.
* MODIFIED: 11/1/05 BY J AGUFA. Dropped E1-E19
* MODIFIED: 12/21/05 BY LUCY LU FOR Q4 2005
* MODIFIED: 03/29/06 BY LUCY LU FOR Q2 FY 2006
* MODIFIED: 07/07/06 BY LUCY LU FOR q3 FY 2006
* MODIFIED: 10/07/06 BY LUCY LU FOR q4 FY 2006
* MODIFIED: 1/2/07 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 3/29/07 BY J AGUFA FOR q2 FY 2007
* MODIFIED: 7/05/07 BY J AGUFA FOR q3 FY 2007
* MODIFIED: 1/22/08 BY J AGUFA FOR q1 FY 2007
* MODIFIED: 10/1/08 BY M RUDACILLE FOR q4 FY 2008
* MODIFIED: 12/1/10 BY M RUDACILLE FOR q1 FY 2011
* MODIFIED: 1/19/11 BY M RUDACILLE - Changed HP_CESH2 to HP_CESH3 * MODIFIED: 3/30/11 BY M RUDACILLE - Changed HP_SMKH2 to HP_SMKH3
* MODIFIED: 12/9/11 BY M RUDACILLE FOR q1 FY 2012
* MODIFIED: 12/15/12 BY M RUDACILLE FOR q1 FY 2013
* PURPOSE:
             TO MERGE FINAL FILES TOGETHER AND REORDER BY VARIABLE TYPE
             To reorder variables within the record use a
              LENGTH statement before the SET statement.
              Make sure that MPRID is the first variable in the
              record followed by:
                             1) other sampling variables
                                 DEERS variables
                             2)
                             3) Post-stratification vars
                             4) questionnaire responses
                             5)
                                 DRC variables
                             6)
                                 recoded questionnaire responses
                             3)
                                 coding scheme flags
                             8) constructed variables
                             9)
                                 weights (NOT AVAILABLE FOR PRELIMINARY DATA)
             ..\..\DATA\AFINAL\SELECTQ.sas7bdat
* INPUT:
* INPUT:
            ..\..\DATA\AFINAL\CONVARQ.sas7bdat
* OUTPUT:
             ..\..\DATA\AFINAL\MERGEQ.sas7bdat
* INCLUDE:
             SERVAFF.SAS
             TO MERGE ON VARIABLE SERVAFF
                       *;
```

```
LIBNAME IN1 '...\DATA\AFINAL';
LIBNAME OUT '...\DATA\AFINAL';
LIBNAME LIBRARY '...\DATA\AFINAL\FMTLIB';
OPTIONS PS=78 LS=124 ERRORS=2 COMPRESS=YES; *MPRINT;
%INCLUDE SERVAFF/SOURCE2;
                                   *LLU 2/9/05;
PROC SORT DATA=IN1.SELECTQ OUT=SELECTQ;
  BY MPRID;
RUN;
PROC SORT DATA=IN1.CONVARQ OUT=CONVARQ;
  BY MPRID;
RUN;
PROC SORT DATA=IN1.SERVAFF OUT=SERVAFF;
   BY MPRID;
RUN;
PROC FREQ DATA=SERVAFF;
  TABLES SERVAFF;
DATA MERGEQ (DROP =
H13001_O
H13002AO
H13002CO
H13002NO
н1300200
H13002PO
H13002QO
H13002SO
H13002TO
H13002UO
H13002FO
H13002GO
Н13002НО
H13002IO
H13002JO
Н13002КО
H13002MO
H13002RO
H13002LO
H13003_O
H13004_O
S13AA01_O
S13AA02A0
S13AA02B0
S13AA02CO
S13AA02DO
S13AA02EO
S13AA02FO
S13AA02GO
S13AA02HO
S13AA02IO
S13AA02JO
S13AA02KO
S13AA02LO
S13AA02VO
S13AA02MO
S13AA02NO
S13AA0200
S13AA02PO
S13AA0200
S13AA02RO
S13AA02SO
S13AA02TO
S13AA02UO
S13AA02WO
S13AA03_0
```

S13AA04AO S13AA04BO S13AA04CO S13AA04DO S13AA04EO S13AA05_O H13005_O H13006_0 H13007_O H13008_O H13009_O H13010_O H13011_0 H13012_O H13013_O H13014_O H13015_0 H13016_O H13017_O H13018_O H13019_O H13020_O H13021_O H13022_O H13023_O H13024_O H13025_O H13026_O H13027_O S13009_0 S13010_0 H13028_O H13029_O H13030_O H13031_O S13B01_0 S13B02_0 S13B03_0 S13B04_0 H13032_O H13033_0 H13034_O H13035_0 H13036_O H13037_0 H13038_O H13039_O H13040_O H13041_O H13042_O H13043_O H13044_O H13045_O H13046_O H13047_O H13048_O H13049_O H13050_O S13015_0 H13051_0 H13052_O H13053_O H13054_O H13055_0 H13056_O H13057AO H13057BO H13057CO H13057DO H13058_O H13059BO H13060_O

H13061_0

```
H13062_O
H13063_0
H13064_O
H13065_O
H13066_O
H13067_O
H13068_O
H13069_O
H13070_O
S13B23_0
S13B24_0
S13B25_0
S13B26_0
H13071FO
H13071IO
H13072_O
SREDA_O
H13073AO
H13073BO
H13073CO
H13073DO
H13073EO
SRRACEAO
SRRACEBO
SRRACECO
SRRACEDO
SRRACEEO
SRAGE_O
H13074_O
H13075_0
H13076_O
H13077_O
H13078_O
H13079_0
S13011_0
S13014_0
S13N11_0
S13N12A0
S13N12B0
S13N12CO
S13N12D0
S13N12EO
S13N12F0
S13N12G0
S13N12H0
S13N12IO
S13N12J0
S13N12KO
S13N12L0
S13N12MO
PRRECFLG
D_DMIS
DMIS
R_MTF
GROUP
GRP_GEO
DELGIND
ELAPSED_SEC
/*SAMPLE_FLAG*/
);
   MERGE SELECTQ(in=hcsdb rename=(flag_fin=dummy)
                                          /*** JMA 2/9/11 ***/
                 DROP=PCM)
         CONVARQ
                                              JMA 2/9/11 ***/
         /*** SERVAFF(DROP=PCM DCATCH);
         SERVAFF (DROP=DCATCH);
   BY MPRID;
   if hcsdb;
/*MAKE FLAG_FIN IN Q4 CHARACTER*/
```

```
FLAG_FIN=PUT(DUMMY,5.);
                                        /*LLU 2/9/05*/
   DROP DUMMY;
FORMAT
   SERVAFF $SERVAFF.
   ENBGSMPL $ENBGS.
   CACSMPL CAC.
   DBENCAT $BENCAT.
DMEDELG $MEDELG.
   DSPONSVC $SPONSVC.
   FLAG_FIN $FINAL.
   FNSTATUS FNSTATS.
   MBRRELCD $MBRREL.
   MEDTYPE $MEDTYP.
   MRTLSTAT $MSTATUS.
   PATCAT
            $AGGBCAT.
   MISS_1
          HAMISS.
   MISS_4 HAMISS.
   MISS_5
           HAMISS.
          HAMISS.
  MISS_6
   MISS_7 HAMISS.
   MISS_9 HAMISS.
   MISS_TOT HAMISS.
   PCM
          $PCM.
   PNLCATCD $PNLCAT.
   PNSEXCD $SEXCD.
RACEETHN $RACECD.
   SEXSMPL SEX.
   SVCSMPL SVCSMPL.
   XSEXA
            HASEX.
   SERVAREA $SRVAREA.
   MPCSMPL MPCSMPL.
   D_HEALTH $DHEALTH.
   TNEXREG $TNEXREG.
            $DFAC.
   D_FAC
   MSM
            $MSM.
   XBMICAT XBMICAT.
   ENRID $ENRID.
   WEB
             WEB.
   XOCONUS XOCONUS.
   ACV
            $ACV2_.
   XSERVAFF XSERVAFF.
   PNTYPCD $PNTYPCD.
   MPRID
          $8.
                      /*Remove extra format space ($43) provided by NRC*/
;
LABEL
   ENBGSMPL = "Enrollment by beneficiary category"
   SERVAFF = "Service Affiliation"
   MPCSMPL = "MPCSMPL - Military Personnel Category"
   FLAG_FIN = "Final Disposition"
   CACSMPL = "Catchment Area"
        = "Web survey indicator"
   D_PAR
          = "DMIS Parent ID"
   D_Health = "Health Service Region"
   TNEXREG = "TNEX Region - Based on Address"
  MSM = 'Multiple Service Market Areas'
MIQCNTL = 'Synovate ID'
   XSERVAFF = "Service Affiliation"
   SERVAREA = 'Service Area'
   COM_GEO = "Catchment Area"
RUN;
PROC CONTENTS DATA=MERGEQ;
RUN;
```

```
DATA OUT.MERGEQ;
    LENGTH
                       $ 8
                                     /* ID
         MPRID
                                      /* sampling variable */
/* sampling variable */
                       .
8
8
         SVCSMPL
         SEXSMPL
                                     /* sampling variable */
                                      / Sampling variable */
/* sampling variable */
/* MER 01/09/13 - Added here because it is derived from CACSMPL */
/* sampling variable */
         STRATUM
         CACSMPL 8
        ENBGSMPL $ 2
MPCSMPL 8
NHFF °
         JSFLAG
                           3
                                      /* sampling variable */
        MPCSMPL 8 /* sampling variable */
NHFF 8 /* sampling variable */
SERVAREA $ 2 /* sampling variable */
QUARTER $ 8 /* sampling variable */
PRN 8 /* sampling variable */
DCATCH $ 4 /* sampling variable */
ENRID $ 4 /* sampling variable */
DMIS_ID $ 9 /* sampling variable */
DMIS_ID $ 9 /* sampling variable */
MSM $ 2 /* sampling variable */
D_FAC $ 9 /* sampling variable */
D_PAR $ 4 /* sampling variable */
D_HEALTH $ 2 /* sampling variable */
TNEXREG $ 1 /* sampling variable */
SERVAFF $ 1 /* sampling variable */
BWT 8 /* sampling variable */
                                       /* sampling variable */
         BWT
                         8
         COM GEO
                       $ 4
                                       /* sampling variable */ /* MER 7/20/10 - Added to sampling vars so
it won't be */
                                                                         /* at the end of the proc contents by
default anymore. */
                                                                         /* This variable gets dropped in
ADDWGTSA.sas.
        /* DEERS variable
                        $ 1
         PNSEXCD
                                      /* DEERS variable
/* DEERS variable
         DAGEQY
                        $ 3
        RDAGEQY
                        3
                                      /* DEERS variable
         FIELDAGE $ 3
                                      /* DEERS variable
/* DEERS variable
         RFLDAGE
                       3
$ 3
$ 1
$ 3
$ 1
$ 1
$ 1
$ 1
                        3
$ 3
         PCM
                                      /* DEERS variable
         ACV
                                      /* DEERS variable
         DBENCAT
                      $ 3
                                                                     * /
                                      /* DEERS variable
/* DEERS variable
         DMEDELG
         DSPONSVC
         MBRRELCD $ 1
                                       /* DEERS variable
                      $ 1
                                       /* DEERS variable
         MEDTYPE
                                        /* DEERS variable
         PATCAT
                                       /* DEERS variable
         PNTYPCD
                       $ 1
                                       /* DEERS variable
         PNLCATCD $ 1
                                                                    * /
                                      /* questionnaire
         H13001
                         4
                                      /* questionnaire
         H13002A
                           4
                                        /* questionnaire
         H13002C
                           4
                                      /* questionnaire
         H13002N
                         4
                                      /* questionnaire
         H130020
                           4
                                      /* questionnaire
/* questionnaire
         H13002P
        H13002Q
                           4
                                      /* questionnaire
         H13002S
                           4
                                      /* questionnaire
/* questionnaire
         H13002T
                           4
         H13002U
                           4
                                      /* questionnaire
         H13002F
                           4
                                      /* questionnaire
                                                                     * /
         H13002G
                           4
                                      /* questionnaire
/* questionnaire
         H13002H
                           4
         H13002I
                           4
                                      /* questionnaire
         H13002J
                                                                     * /
                                      /* questionnaire
         H13002K
                           4
                                        /* questionnaire
         H13002M
                           4
                                        /* questionnaire
         H13002R
                                        /* questionnaire
        H13002L
                           4
```

/* questionnaire

H13003

H13004	4	/* questionnaire */	
Н13005	4	/* questionnaire */	
H13006	4	/* questionnaire */	
H13007	4	/* questionnaire */	
H13007	4	/* questionnaire */	
	4		
H13009			
Н13010	4	/* questionnaire */	
Н13011	4	/* questionnaire */	
H13012	4	/* questionnaire */	
H13013	4	/* questionnaire */	
H13014	4	/* questionnaire */	
н13015	4	/* questionnaire */	
Н13016	4	/* questionnaire */	
H13017	4	/* questionnaire */	
н13018	4	/* questionnaire */	
н13019	4	/* questionnaire */	
H13020	4	/* questionnaire */	
H13021	4	/* questionnaire */	
H13022	4	/* questionnaire */	
H13022	4	/* questionnaire */	
H13023	4	_	
		/* questionnaire */	
Н13025	4	/* questionnaire */	
Н13026	4	/* questionnaire */	
H13027	4	/* questionnaire */	
H13028	4	/* questionnaire */	
H13029	4	/* questionnaire */	
н13030	4	/* questionnaire */	
H13031	4	/* questionnaire */	
H13032	4	/* questionnaire */	
н13033	4	/* questionnaire */	
н13034	4	/* questionnaire */	
Н13035	4	/* questionnaire */	
H13036	4	/* questionnaire */	
H13030	4	/* questionnaire */	
H13037	4	/* questionnaire */	
H13038	4	/* questionnaire */	
H13039	4	_	
H13041	4	/* questionnaire */	
H13042	4	/* questionnaire */	
H13043	4	/* questionnaire */	
H13044	4	/* questionnaire */	
H13045	4	/* questionnaire */	
Н13046	4	/* questionnaire */	
H13047	4	/* questionnaire */	
Н13048	4	/* questionnaire */	
H13049	4	/* questionnaire */	
н13050	4	/* questionnaire */	
н13051	4	/* questionnaire */	
H13052	4	/* questionnaire */	
н13053	4	/* questionnaire */	
н13054	4	/* questionnaire */	
H13055	4	/* questionnaire */	
Н13056	4	/* questionnaire */	
H13057A	4	/* questionnaire */	
H13057B	4	/* questionnaire */	
H13057C	4	/* questionnaire */	
H13057D	4	/* questionnaire */	
H13057B	4	/* questionnaire */	
H13059B	4	/* questionnaire */	
H13059B	4	_	
H13060	4		
		/* questionnaire */	
H13062	4	/* questionnaire */	
H13063	4	/* questionnaire */	
H13064	4	/* questionnaire */	
Н13065	4	/* questionnaire */	
Н13066	4	/* questionnaire */	
H13067	4	/* questionnaire */	
H13068	4	/* questionnaire */	
H13069	4	/* questionnaire */	
H13070	4	/* questionnaire */	
H13071F	4	/* questionnaire */	
H13071I	4	/* questionnaire */	
H13072	4	/* questionnaire */	

SREDA	4	/* questionnaire	* /
	4		*/
H13073		_	
H13073A	4	/* questionnaire	* /
н13073В	4	/* questionnaire	* /
H13073C	4	/* questionnaire	* /
H13073D	4	/* questionnaire	* /
H13073E	4	/* questionnaire	* /
SRRACEA	4	/* questionnaire	*/
SRRACEB	4	/* questionnaire	*/
SRRACEC	4	/* questionnaire	* /
SRRACED	4	/* questionnaire	* /
SRRACEE	4	/* questionnaire	* /
SRAGE	4	/* questionnaire	* /
H13074	4	/* questionnaire	* /
н13075	4	/* questionnaire	*/
		_	
н13076	4	/* questionnaire	* /
н13077	4	/* questionnaire	* /
H13078	4	/* questionnaire	* /
н13079	4	/* questionnaire	* /
S13AA01	4	<pre>/* supplemental</pre>	* /
S13AA02A	4	/* supplemental	* /
S13AA02B	4	/* supplemental	*/
S13AA02C	4	/* supplemental	*/
	4		
S13AA02D		/* supplemental	* /
S13AA02E	4	<pre>/* supplemental</pre>	* /
S13AA02F	4	<pre>/* supplemental</pre>	* /
S13AA02G	4	/* supplemental	* /
S13AA02H	4	/* supplemental	* /
S13AA02I	4	/* supplemental	*/
	4		
S13AA02J		/* supplemental	* /
S13AA02K	4	<pre>/* supplemental</pre>	* /
S13AA02L	4	/* supplemental	* /
S13AA02V	4	<pre>/* supplemental</pre>	* /
S13AA02M	4	/* supplemental	* /
S13AA02N	4	/* supplemental	*/
S13AA020	4		*/
S13AA02P	4	/* supplemental	* /
S13AA02Q	4	<pre>/* supplemental</pre>	* /
S13AA02R	4	<pre>/* supplemental</pre>	* /
S13AA02S	4	<pre>/* supplemental</pre>	* /
S13AA02T	4	/* supplemental	* /
S13AA02U	4	/* supplemental	*/
S13AA02W	4	/* supplemental	*/
S13AA03	4	/* supplemental	* /
S13AA04A	4	<pre>/* supplemental</pre>	* /
S13AA04B	4	<pre>/* supplemental</pre>	* /
S13AA04C	4	<pre>/* supplemental</pre>	* /
S13AA04D	4	/* supplemental	* /
S13AA04E	4	/* supplemental	* /
S13AA05	4	/* supplemental	*/
	4		*/
S13009		/* supplemental	
S13010	4	<pre>/* supplemental</pre>	* /
S13B01	4	<pre>/* supplemental</pre>	* /
S13B02	4	/* supplemental	* /
S13B03	4	/* supplemental	* /
S13B04	4	/* supplemental	*/
S13B23	4	/* supplemental	*/
S13B24	4	/* supplemental	* /
S13B25	4	<pre>/* supplemental</pre>	* /
S13B26	4	<pre>/* supplemental</pre>	* /
S13011	4	<pre>/* supplemental</pre>	* /
S13014	4	/* supplemental	* /
S13015	4		٠/
S13013 S13N11	4	/* supplemental	*/
S13N12A	4	/* supplemental	*/
S13N12B	4	/* supplemental	* /
S13N12C	4	<pre>/* supplemental</pre>	* /
S13N12D	4	<pre>/* supplemental</pre>	* /
S13N12E	4	/* supplemental	* /
S13N12F	4	/* supplemental	*/
S13N12G	4	/* supplemental	*/
S13N12G S13N12H	4		*/
STSINTAL	4	/* supplemental	/

```
/* supplemental
/* supplemental
S13N12I 4
S13N12J 4
                                                                                  * /
                                           /* supplemental
S13N12K
                                         /* supplemental
S13N12L
                                         /* supplemental
S13N12M
                         4
                                  /* Survey fielding variable */
                   $ 3
ONTIME
FLAG_FIN $ 5
DUPFLAG
                    $ 3
                     8
FNSTATUS
KEYCOUNT
                         8
                                        /* Survey fielding variable */
/* Survey fielding variable */
WEB
                         8
MIQCNTL
                    $ 12
                                   /* CS flag variable
N1_Q1
                        8
                                           /* CS flag variable
N1_AA1
                         8
                      8
                                         /* CS flag variable
N2
                                        /* CS flag variable
Ν3
                     8
                    8 8
                                        /* CS flag variable
/* CS flag variable
N4
N5
                   /* CS flag variable
                                        /* CS flag variable
N6
Ν7
N8
N8_01
N9
N10
N10_B1
N11
N12
N13
N14
N15
N16
N17
N18
N19A
N19B
N20
N21
N22
N23
                                      /* CS IIay variable
/* CS flag variable
N24
                                         /* CS flag variable
                      8
N25
                     8
                                        /* CS Count
MISS_1
                                     /* CS Count
                     8
MISS_4
                        8
                                        /* CS Count
/* CS Count
MISS_5
                     ১
8
MISS_6
                      8
MISS 7
                                        /* CS Count
                                       /* CS Count
MISS 9
                     8
MISS_TOT
                                          /* CS Count
                        8
                       8 /* constructed
XENRLLMT
                      8
XENR_PCM
XINS_COV
                     8
XBENCAT
                  8
8
3
XENR_RSV
                                       /* constructed 
/* constructed
XINS_RSV
XREGION
                                        /* constructed
XTNEXREG
                         3
                 3 /* constructed
3 /* constructed
3 /* constructed
8 /* constructed
8 /* constructed
8 /* constructed
3 /* constructed
4 /* constructed
5 /* constructed
7 /* constructed
8 /* constructed
USA
XOCONUS
OUTCATCH
XSEXA
                                                                                  * /
XBMI
XBMICAT
                                        /* constructed
XBNFGRP
                                        /* constructed
                     3
8
8
XSERVAFF
                                           /* constructed
KMILOPQY
KCIVOPQY
                                          /* constructed
                         8
                                          /* constructed
KCIVINS
HP_PRNTL
                                           /* constructed
                         8
```

```
HP_MAMOG 8 /* constructed */
HP_MAM50 8 /* constructed */
HP_PAP 8 /* constructed */
HP_BP 8 /* constructed */
HP_BP 8 /* constructed */
HP_FLU 8 /* constructed */
HP_OBESE 8 /* constructed */
HP_SMOKE 8 /* constructed */
HP_SMKH3 8 /* constructed */
HP_CESH3 8 /* constructed */
;

SET MERGEQ;
RUN;

PROC CONTENTS DATA=OUT.MERGEQ POSITION;
title "HCSDB for Q1 FY 2013, ordered by variable type";
RUN;

PROC FREQ DATA=OUT.MERGEQ;
TABLE PCM ACV CACSMPL /MISSPRINT;
PIIN;
```

F.6 Q3FY2013\Programs\Weighting\NewWeights\smplA1A2.SAS - Construct the categorical variables to be used in the AnswerTree and the modeling - Run Quarterly.

```
*** Program: smplA1A2.sas
*** Task : (06663.200)
*** Purpose: Define the data sets and construct the variables to be used in the propensity model
*** Written: Haixia Xu 12/18/2006 for q1fy2007 weighting
***
* * *
           sampla03_2.sas7bat, deers001-004.sas7bat
***
*** Outputs: smplA1A2.sas7bdat
***
           smplAl.sas7bdat: Dataset to be used to calculate the unknown eligibility factor Al
***
           smplA2.sas7bdat: Dataset to be used to calculate the nonresponse adjustment A2
***
           conusA1.sas7bdat, oconusA1.sas7bdat, conusA2.sas7bdat, oconusA2.sas7bdat
***
*** Note: 1)Modified for Q1FY2007 weighting:
* * *
           a) Two more variables are added in CHAID tree analysis to capture the new
***
               sample design in q1fy2007
***
            b) Uncollapse PCM to differentiate CIV and MTF.
***
         2)Modified for Q1FY2009 weighting:
***
           a) Email notification sent to all Active duty whose email address is available
***
               Looks like the variable name in Answer Tree has to be no longer than 8.
            b) Define patc_grp based on patcat & Has_email, it has 4 categories instead of 3.
***
           3)Q1fy2012 had 42 overlap with TSS 2011. We droped 42 cases from sample.
***
            For weighting purpose, we need to make there status as Non-Respondense.
           4)Q2FY2012 We do not create data 'sampla03_2' and 'Has-Email' variable any more.
options ls=132 ps=79 nocenter formdlim='~' obs=max WORKTERM mprint;
%let quarter=Q3FY2013;
libname inr "K:\&quarter.";
                                   * extract.sas7bdat, deers001-004.sas7bdat;
libname in "L:\&quarter.\Data\afinal"; * selectq.sas7bdat;
libname out "L:\&quarter.\Data\afinal"; * smpla11, smpla1, smpla2, conusa1, conusa2, oconusa1,
oconusa2;
libname library v9 "L:\&quarter.\DATA\AFINAL\FMTLIB";
*Location for Answer Tree Files;
%let outpath =L:\&quarter.\Programs\Weighting\NewWeights\AnswerTree;
title1 "Program: smplA1A2.SAS (&quarter.)";
title2 "Purpose: Define the data sets and construct the variables";
******************
Put the data together;
****************************
data selectq;
  set in.selectq(keep=BWT COM_GEO D_HEALTH D_FAC dageqy ENBGSMPL FNSTATUS MPCSMPL MPRID
                PATCAT PCM PNLCATCD PNSEXCD SERVAFF SEXSMPL STRATUM SVCSMPL WEB TNEXREG
                GROUP);
run;
***********
Get the variables PGCD, PTNT_ID from extract data
*************************
proc sort data=selectq; by mprid;
run;
proc sort data=inr.extract(keep=mprid pgcd ptnt_id PAYPLNCD) out=extract;
by mprid;
run;
data selectq;
```

```
merge selectq(in=a) extract(in=b);
  by mprid;
  if a and b;
run;
Merge the select with DEERS to get the address variable c_addr1
%macro dodeers(part=);
data deers00&part.;
set inr.deers00&part.(keep=ptnt_id c_addr1);
if c_addr1=' ' then CHCSAddr=0;
if c_addr1~=' ' then CHCSAddr=1;
proc sort data=selectq; by ptnt_id; run;
proc sort data=deers00&part.; by ptnt_id; run;
data selectq;
merge selectq (in=A) deers00&part.;
by ptnt_id;
if A=1;
run;
%mend dodeers;
%dodeers(part=1);
%dodeers(part=2);
%dodeers(part=3);
%dodeers(part=4);
***********************
Construct the new variables
data smpl;
set selectq;
***age***;
age=input(dageqy, 3.);
*Define the age group with 5 categories, which will be used in CHAID;
length AGE_grp5 $1;
if age <= 24 then AGE\_grp5 = '1';
else if 24 < age <= 34 then AGE_grp5 = '2';
else if 34 < age <= 44 then AGE_grp5 = '3';
else if 44 < age <= 64 then AGE_grp5 = '4';
else if age > 64 then AGE_grp5 = '5';
if age=. then AGE_grp5='5';
***PATCAT***;
***Define PATCAT this way so it won't be associated with the age ***;
length PATC_grp $15;
if PATCAT = 'UNKNOWN' then do;
 if ENBGSMPL in ('01') then PATC_grp='ACTDTY';
 else if ENBGSMPL in ('02', '03', '04') then PATC_grp='DEPACT'; else if ENBGSMPL in ('05', '06', '07', '10') then PATC_grp='NADD';
end;
else if PATCAT in ('NADD<65','NADD65+') then PATC_grp = 'NADD';
else PATC_grp = PATCAT;
***PCM***;
length PCM_grp $3;
if PCM =' ' then PCM_grp='NON';
else if PCM in ('CIV', 'MTF') then PCM_grp = PCM;
***PNLCATCD***;
length PNLC_grp $8;
if PNLCATCD in ('N','V') then PNLC_grp='Grd/Resv';
else PNLC_grp= 'Other';
***RANKPAY***;
length RankPay $3;
```

```
if MPCSMPL=1 then do;
  if PGCD in (' ', '00', '99', 'WW', 'NS') then RankPay = 'E01';
  else RankPay = 'E' | PGCD;
  end;
else if MPCSMPL=2 then do;
  if PGCD in (' ', '00', '99' ) then RankPay = '001'; else RankPay = '0'||PGCD;
else if MPCSMPL=3 then do;
  if PGCD in (' ', '00', '99') then RankPay = 'W01';
  else RankPay = 'W' | PGCD;
  end;
length RANK_grp $15;
if RankPay in ('E01', 'E02', 'E03', 'E04') then RANK_grp = 'E1234';
else if RankPay in ('E05', 'E06', 'E07', 'E08', 'E09', 'E10', 'E11', 'E12', 'E13', 'E14', 'E15') then
RANK\_grp = 'E56789101112';
else if Rankpay in ('W01', 'W02', 'W03', '001', '002', '003') then RANK_grp = 'W1230123'; else if RankPay in ('W04', 'W05', '004', '005', '006', '007', '008', '009', '010') then RANK_grp
= 'W45045678910';
***sex***;
*Put the missing sex with male;
length SEX_grp $1;
if SEXSMPL in (1, 3) then SEX_grp ='1';
else if SEXSMPL=2 then SEX_grp='2';
***service***;
length SVC_grp $16;
if SVCSMPL = 1 then SVC_grp='Army';
else if SVCSMPL in (2,3,5,6) then SVC_grp='N/M/C/O/U';
else if SVCSMPL = 4 then SVC_grp='Air Force';
***facility TNEX region***;
length TNEX_grp $1;
if d_health in ('00', '13', '14', '15') then {\tt TNEX\_grp='0'};
else if d_health in ('17', '01','05') then TNEX_grp='N'; else if d_health in ('18','04') then TNEX_grp='S';
else if d_health in ('19','08','11') then TNEX_grp='W';
*Correct the TNEX regions for com_geo 0047, 9001, 9002, 9003, 9004:
All the cases in the same com_geo should be in the same TNEX region, which is the region of the
com_geo;
if COM_GEO = '0047' then TNEX_grp='S';
else if COM_GEO = '9001' then TNEX_grp='N';
else if COM_GEO = '9002' then TNEX_grp='S';
else if COM_GEO = '9003' then TNEX_grp='W';
else if COM_GEO = '9004' then TNEX_grp='0';
***CONUS region***;
length conus $1;
if TNEX_grp ='0' then conus='0';
else if TNEX_grp in ('N', 'S', 'W') then conus='1';
***Catchment areaindicator***;
length in_catch $1;
if d_fac='NONCAT' or d_fac='TGRO' or d_fac="TPR" then in_catch='0';
else in_catch ='1';
if group='0' then TRS=1;
else TRS=2;
label in_catch='In-catchment area indicator'
          TRS='TRICARE Reserve Select indicator';
run;
title3 'Checking the Coding after Constructing New Variables';
proc freq data=smpl;
tables CHCSAddr AGE_grp5 AGE_grp5*AGE*dageqy
       PATC_grp PATC_grp*PATCAT*ENBGSMPL
       PCM_grp PCM_grp*PCM
       PNLC_grp PNLC_grp*PNLCATCD
       RANKPAY*MPCSMPL*PGCD
```

```
RANK_grp RANK_grp*RANKPAY
      SEX_grp SEX_grp*SEXSMPL*PNSEXCD
         SVC_grp SVC_grp*SVCSMPL
      TNEX_grp TNEX_grp*d_health
      CONUS CONUS*TNEX_grp
      in_catch in_catch*d_fac
      TRS*group
        com_geo*TNEX_grp
/missing list;
run;
********************
Output the data sets
       **********************
data OUT.smplA1A2 OUT.smplA1 OUT.smplA2 OUT.conusA1 OUT.conusA1 OUT.conusA2 OUT.conusA2;
set smpl(drop=DAGEQY PNSEXCD MPCSMPL PGCD PTNT_ID);
*Rename has_email=HasEmail;
if fnstatus in (11, 12, 20, 31, 32, 41, 42) then output OUT.smplA1A2;
if fnstatus in (11, 12, 20, 31, 41, 42) then do;
 if fnstatus in (11, 12, 20, 31) then eliqkwn=1; else eliqkwn=0;
 label eligkwn = 'Eligibility known indicator';
 output OUT.smplA1;
 if conus='1' then output OUT.conusA1;
 else if conus='0' then output OUT.oconusA1;
end;
if fnstatus in (11, 12, 20) then do;
 if fnstatus = 11 then complete = 1; else complete =0;
 label complete = 'Eligible respondent/complete indicator';
 output OUT.smplA2;
 if conus='1' then output OUT.conusA2;
 else if conus='0' then output OUT.oconusA2;
end;
run;
options compress=no;
title3 'Freq of conus*fnstatus for 51,000 beneficiaries';
proc freq data=OUT.smplA1A2;
tables conus*fnstatus / missing list;
run;
title3 'Freq of fnstatus*eligkwn for 51,000 benes except fnstatus=32';
proc freq data=OUT.smplA1;
tables conus*fnstatus*eligkwn/ missing list;
run;
title3 'Freq of fnstatus*complete for fnstatus=11,12,20';
proc freq data=OUT.smplA2;
tables conus*fnstatus*complete/ missing list;
/* Proc Export to convert SAS dataset to SPSS file for the Answer Tree*/
%MACRO SAStoSAV(FNAME);
 PROC EXPORT DATA=OUT.&FNAME.
      OUTFILE= "&outpath.\&FNAME..sav" REPLACE;
%MEND SAStoSAV;
%SAStoSAV(conusA1);
%SAStoSAV(oconusA1);
%SAStoSAV(conusA2);
%SAStoSAV(oconusA2);
```

************ The End ************;

F.7 Q3FY2013\Programs\Weighting\NewWeights\logmdA1.SAS - Do the 1st stage unknown eligibility adjustment modeling - Interactions in the model are determined based on the trees0 - Run Ouarterly.

```
*** Program: logmdA1.sas (06663.200)
*** Purpose: Use the SUDAAN model to predict the response propensity
             score for the unknown eligibility adjustment step
*** Inputs: conusA1.sas7bdat, oconusA1.sas7bdat, smplA1A2.sas7bdat
*** Outputs: logmdA1.sas7bdat
***
*** Written: Haixia Xu 12/27/2006 Q4fy2007 weighting
*** Note : 1) We have 2 Warnings in Log. ZERO CELL Warning is a Sudaan Bug. There is NO true
                We have only ONE catagory for (AgeGp=5 and Patc), which gives us Singularity
Warning.
               That one strara is: (Age_Grp5='5' and patc_grp=NADD)
***
               (L:\Q4FY2010\Programs\Weighting\NewWeights\SUDAAN Warning_Proc RLOGIST.msg)
***
                       2) A. Borgen for Q3FY2011 and beyond:
***
                a) Active duty with email and without email has been collapsed, since these cases
are
                   involved in so many zero cell.
***
                b) has_email is no longer used in the model since most of the time it is not
included
***
                   in the final model.
***
                   (see note L:\Q3FY2011\Programs\Weighting\NewWeights\ImportantNote_PleaseCheck)
**;
options ls=132 ps=79 compress=yes nocenter formdlim='~';
%let quarter=Q3FY2013;
%include "L:\&quarter.\Programs\Weighting\NewWeights\Zero_One_Cells.sas";
libname in
            "L:\&quarter.\Data\afinal"; /* conusA1.sas7bdat, oconusA1.sas7bdat, smplA1A2.sas7bat
libname out "L:\&quarter.\Data\afinal"; /* logmdA1.sas7bdat */
proc format;
value FMT_TNEX 1 = '1-North'
               2 = '2-South'
               3 = '3-West'
               4 = '4-Other';
value FMT_AGE 1 = '<=24'</pre>
               2 = '(24,34]'
               3 = (34,44]
               4 = '(44,64]'
               5 = ' >=65';
value FMT_PAT 1 = '1-ACTDTY'
               2 = '2-DEPACT'
               3 = '3-NADD';
value FMT_PCM 1 = '1-Nonenrollee'
               2 = '2-CIV Enrollee'
               3 = '3-MTF Enrollee';
value FMT_PNLC 1 = '1-Other'
               2 = '2-Grd/Resv';
value FMT_RANK 1 = '1-E1234'
               2 = '2-E56789101112'
               3 = '3-W1230123'
               4 = '4-W45045678910';
               1 = '1-E1_12'
value FMT_RK
               2 = '2-W1_501_10';
value FMT_SEX 1 = '1-Male'
               2 = '2-Female';
value FMT_SVC 1 = '1-Army'
               2 = '2-Air Force'
               3 = '3-N/M/C/O/U';
value FMT_INCT 1 = '1-Not in Catch'
               2 = '2-In catch';
value FMT_PLUS 1 = '1- TRICARE PLUS'
               2 = '2- Not TRICARE PLUS';
```

```
value FMT_TRS 1 = '1- TRICARE Reserve Select'
             2 = '2- Not TRICARE Reserve Select';
value FMT_addr 0 = '0- CHCS mailling address unavailable'
             1 = '1- CHCS mailling address available';
value FMT_chcs 1 = '1- CHCS mailling address unavailable'
             2 = '2- CHCS mailling address available';
value FMT_emai 1 = 'AD with Email Address available'
             2 = 'AD with Email Address unavailable'
             3 = 'Non Active Duty(AD)';
run;
title1 "Program: logmdA1.sas (&quarter.)";
title2 "Purpose: Predict the Response Probability for the unknown Eligibility Adjustment";
*------
==
Create the dummy variables to be used in the SUDAAN model
______
/*
title3 'Check to see what kind of values mprid and stratum have';
proc freq data=in.smplA1(obs=20);
tables MPRID stratum/missing list;
run;
* /
data logmdA1;
set in.conusA1 in.oconusA1;
*Convert MPRID and stratum into numerical values since SUDAAN takes only numerical values;
length MPRID_c9 $9 stratum1 $8 ;
MPRID_c9='1'||MPRID;
MPRID_nm = input (MPRID_c9, 9.);
stratum1='1'||stratum;
STRAT_nm = input (stratum1, 8.);
Convert all the categorical variables into numeric variables
*****************
if TNEX_grp='N' then TNEX_num=1;
else if TNEX_grp='S' then TNEX_num=2;
else if TNEX_grp='W' then TNEX_num=3;
else if TNEX_grp='0' then TNEX_num=4;
AGE_num5=input(AGE_grp5, 1.);
/*Collapse Active Duty with Email/NO-Email, since they are involved in so many zero cell
 If PATC_grp in ('ACTDTY_EMAIL','ACTDTY_NOEMAIL') then PATC_grp= 'ACTDTY'*/
if PATC_grp='ACTDTY' then PATC_num=1;
else if PATC_grp= 'DEPACT' then PATC_num=2;
else if PATC_grp = 'NADD' then PATC_num=3;
if PCM_grp='NON' then PCM_num=1;
else if PCM_grp='CIV' then PCM_num=2;
else if PCM_grp='MTF' then PCM_num=3;
if PNLC_grp ='Other' then PNLC_num=1;
else if PNLC_grp= 'Grd/Resv' then PNLC_num=2;
if RANK_grp='E1234' then RANK_num=1;
else if RANK_grp= 'E56789101112' then RANK_num=2;
else if RANK_grp = 'W1230123' then RANK_num= 3;
else if RANK_grp = 'W45045678910' then RANK_num=4;
if SEX_grp='1' then SEX_num=1;
else if SEX_grp= '2' then SEX_num = 2;
if SVC_grp='Army' then SVC_num=1;
else if SVC_grp='Air Force' then SVC_num=2;
```

```
else if SVC_grp='N/M/C/O/U' then SVC_num=3;
if IN_CATCH='0' then INCAT_num=1;
else if IN_CATCH='1' then INCAT_num=2;
if CHCSAddr='0' then CHCS_num=1;
else if CHCSAddr='1' then CHCS_num=2;
run;
title3 'Freq of MPRID_nm*mprid strat_nm*stratum';
proc freq data=logmdA1(obs=50);
tables MPRID_nm*mprid strat_nm*stratum/ missing list;
* /
title3 'Check the construction of the numeric variables';
proc freq data=logmdA1;
tables TNEX_num*TNEX_grp
      AGE_num5*AGE_grp5
      PATC_num*PATC_grp
      PCM_num*PCM_grp
      PNLC_num*PNLC_grp
      RANK_num*RANK_grp
      SEX_num*SEX_grp
      SVC_num*SVC_grp
          INCAT_num*IN_CATCH
      CHCS_num*CHCSAddr
/missing list;
run;
data conus oconus;
set logmdA1;
if conus='1' then output conus;
else if conus='0' then output oconus;
run;
*************
Check the zero cell before the modeling for CONUS
*****************
%let Vars_in_interactions_conus = age_grp5 tnex_grp patc_grp pnlc_grp pcm_grp rank_grp chcsaddr
in_catch pnlc_grp svc_grp sex_grp;
 /*Interactions from chaid */
%let Interactions_from_chaid_conus =
/*O3FY2013: From ConusA1 tree*/
age_grp5*patc_grp*rank_grp
age_grp5*rank_grp*pnlc_grp
age_grp5*rank_grp*svc_grp
age_grp5*rank_grp*sex_grp
age_grp5*svc_grp*patc_grp
age_grp5*svc_grp*sex_grp
/*Q3FY2013: Two way interaction from the three ways above*/
age_grp5*patc_grp
age_grp5*rank_grp
age_grp5*svc_grp
age_grp5*pnlc_grp
age_grp5*sex_grp
patc_grp*rank_grp
rank_grp*pnlc_grp
rank_grp*svc_grp
rank_grp*sex_grp
svc_grp*patc_grp
svc_grp*sex_grp
/*Q3FY2013: Additional two way interaction from answer tree*/
age_grp5*chcsaddr
```

```
title3 "Check the zero cells for Conus";
%ZERO_ONE_CELLS(conus, &Vars_in_interactions_conus., eligkwn, &Interactions_from_chaid_conus.);
Q3FY2013
Obs AGE_grp5 PATC_grp PNLC_grp RANK_grp CHCSAddr SVC_grp SEX_grp eligkwn_Mean eligkwn_N
 1 1
                               W1230123
           NADD
                                                                                      43
 2 5
            ACTDTY
                               E1234
                                                                             Ω
                                                                                       1
 3 5
            ACTDTY
                               W1230123
                                                                             0
                                                                                       1
                              W45045678910
  4 5
            ACTDTY
                                                                             0
                                                                                       1
  5 4
                      Grd/Resv E1234
                                                                             0
                                                                                      18
  6 5
            ACTDTY
                                                . Air Force
                                                                             0
                                                                                       1
  7 5
             ACTDTY
                                                                             0
                                                                                       2
                                                . Army
 8 5
            DEPACT
                                                . N/M/C/O/U
                                                                             0
                                                                                       1
 9 5
            ACTDTY
                                                                             0
                                                                                       3
                                                                                    =======
                                                                                      71
* /
/*Q3FY2013*/
title3 "Check to see how to collapse (Conus)";
proc freq data=conus;
tables
age_grp5*patc_grp*rank_grp*eligkwn
age_grp5*pnlc_grp*rank_grp*eligkwn
age_grp5*patc_grp*svc_grp*eligkwn
age_grp5*patc_grp*eligkwn/missing list SPARSE;
run;
/*Q3FY2013*/
data conus;
set conus;
age_grp5_old=age_grp5;
rank_grp_old=rank_grp;
if age_grp5='1' and patc_grp in ('NADD') and rank_grp='W1230123' then do;
 rank_grp='W45045678910';
 rank_num=4;
 flag1=1;
end;
else if age_grp5='4' and pnlc_grp in ('Grd/Resv') and rank_grp='E1234' then do;
 rank grp='E56789101112';
 rank_num=2;
 flag2=1;
end;
/* Q3FY2013: For AgeGrp=5, ACTDTY and DEPACT both have only 3 cases.
             Although DEPACT does not create a zero cell, we collapse
             ACTDTY and DEPACT into AgeGrp = 4 since there are a small
             amount of cases for both. */
else if age_grp5='5' and patc_grp in ('DEPACT','ACTDTY') then do;
 age_grp5='4';
  age_num5=4;
 flag3=1;
end;
run;
title3 "Again....Checks the zero cells for Conus ";
%ZERO_ONE_CELLS(conus, &Vars_in_interactions_conus., eligkwn, &Interactions_from_chaid_conus.);
*Q3FY2013;
```

```
title3 "Check the zero cell collapsements (Conus)";
proc freq data=conus;
tables age_grp5*patc_grp*rank_grp*rank_grp_old*flag1
       age_grp5*pnlc_grp*rank_grp*rank_grp_old*flag2
       age_grp5*patc_grp*age_grp5_old*flag3
/missing list;
run;
*Q3FY2013: Deletes unnecessary variables:;
data conus;
   set conus(drop=age_grp5_old rank_grp_old flag1-flag3);
*******
Run the SAS stepwise model
*****************
%macro modelselect_conus(method= );
title3 "SAS Logistic for CONUS - &method.";
proc logistic data=conus descending;
CLASS
TNEX_grp (ref='N')
AGE_grp5 (ref='1')
PATC_grp (ref='NADD')
PCM_grp (ref='NON')
PNLC_grp (ref='Other')
RANK_grp (ref='E1234')
SEX_grp (ref='1')
SVC_grp (ref='Army')
IN_CATCH (ref='0')
       (ref='2')
TRS
CHCSAddr (ref='0')
/*HASEmail(ref='YES')*/
/param=ref descending;
MODEL eligkwn =
TNEX_grp
AGE_grp5
PATC_grp
PCM_grp
PNLC_grp
RANK_grp
SEX_grp
SVC_grp
IN_CATCH
TRS
CHCSAddr
/*Q3FY2013: From ConusA1 tree*/
age_grp5*patc_grp*rank_grp
age_grp5*rank_grp*pnlc_grp
age_grp5*rank_grp*svc_grp
age_grp5*rank_grp*sex_grp
age_grp5*svc_grp*patc_grp
age_grp5*svc_grp*sex_grp
/*Q3FY2013: Two way interaction from the three ways above*/
age_grp5*patc_grp
age_grp5*rank_grp
age_grp5*svc_grp
age_grp5*pnlc_grp
age_grp5*sex_grp
patc_grp*rank_grp
rank_grp*pnlc_grp
rank_grp*svc_grp
rank_grp*sex_grp
svc_grp*patc_grp
svc_grp*sex_grp
/*Q3FY2013: an additional two way interaction from answer tree*/
```

Summary of Stepwise Selection

```
Number
                                                              Score
                                                                           Wald
                                                               In Chi-Square
    Step
                   Entered
                                           Removed DF
                                                                                    Chi-Square
                                                    4
                                                           1 4390.8973
                                                                                <.0001
                   AGE_grp5
                                                             198.8312
                   PATC_grp
                                                    2
                                                           2.
                                                                                    < .0001
       2
       3
                   RANK_grp
                                                    3
                                                           3
                                                               189.7531
                                                                                     <.0001
                   SVC_grp
                                                        2
                                                                 4 114.7138
                                                                                             <.0001
       4
                                                           5
       5
                   AGE_grp5*PATC_grp
                                                   6
                                                               120.8644
                                                                                     <.0001
       6
                   PATC_grp*SVC_grp
                                                   4
                                                           6
                                                               109.4144
                                                                                     <.0001
                   AGE_grp5*SVC_grp
                                                   8
                                                           7
                                                                68.5130
                                                                                     <.0001
                   AGE_grp5*RANK_grp
       8
                                                   12
                                                           8
                                                                60.6070
                                                                                     <.0001
       9
                   PATC_grp*RANK_grp
                                                   6
                                                           9
                                                                50.7766
                                                                                     <.0001
       10
                                                                 10 26.8563
                                                                                             <.0001
                   SEX_grp
                   AGE_grp5*SEX_grp
                                                                                     <.0001
       11
                                                   4
                                                          11
                                                                 56.9268
                   PCM_grp
       12
                                                        2
                                                                 12 16.3486
                                                                                            0.0003
                                                                17.9716
       13
                   RANK_grp*SEX_grp
                                                   3
                                                          13
                                                                                     0.0004
       14
                   CHCSAddr
                                                    1
                                                          14
                                                                 11.5140
                                                                                     0.0007
                   AGE_grp5*CHCSAddr
       15
                                                          15
                                                                 17.4753
                                                                                     0.0016
                                                     12
                                                                 16 27.4395
                                                                                            0.0067
       16
                   AGE_gr*PATC_g*SVC_gr
       17
                   PNLC_grp
                                                    1
                                                          17
                                                                 6.0069
                                                                                     0.0143
                   in_catch
                                                                 5.4212
                                                                                     0.0199
       18
                                                   1
                                                          18
       19
                   PNLC_grp*RANK_grp
                                                   3
                                                          19
                                                                 8.3294
                                                                                     0.0397
       20
                   AGE_grp5*PNLC_grp
                                                                 9.6521
                                                   3
                                                          20
                                                                                     0.0218
                                                                 21
       21
                   AGE_gr*PNLC_g*RANK_g
                                                      8
                                                                       15.8805
                                                                                            0.0441
       22
                   AGE_gr*RANK_g*SEX_gr
                                                     12
                                                                  22
                                                                        20.9526
                                                                                             0.0511
                                                                 2.7271
                                                                                     0.0987
                                                    1
                                                          23
       23
                   TRS
       24
                   TNEX_grp
                                                          24
                                                                 4.3410
                                                                                     0.1141
title3 " Crosstab between AGE and PATC group (Conus)"; title4 " We noticed, Sudaan gives error if we don't have full crosstab (AgeGp=5)";
proc freq data=conus;
tables Age_Grp5*PATC_Grp/list missing;
*Proc Sort before Proc Rlogist;
proc sort data=conus;
by STRAT_nm;
run;
%macro sudaan_conus(ttl, vars);
Title3 " The Final Model from SAS Stepwise - CONUS ";
Title4 " &ttl.";
proc rlogist data=conus design=STRWR filetype=SAS;
NEST STRAT_nm/missunit;
weight bwt;
                      PATC_num
CLASS
         AGE num5
                                    PCM num
                                                RANK num
                                                            sex_num
                                                                       PNLC num
                                    TRS
         SVC_num
                      incat_num
                                                chcs_num
                                                            tnex_num ;
REFLEVEL AGE_num5=1
                      PATC_num=3
                                   PCM num=1
                                                RANK_num=1 SEX_num=1 PNLC_num=1
         SVC_num=1
                      INCAT_num=1 TRS=2
                                                chcs_num=1 tnex_num=1;
MODEL eligkwn = &vars.;
```

idvar MPRID_nm;

print beta sebeta t_beta p_beta

```
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI WALDCHP
/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2 waldchpfmt=f8.6;
output expected observed nest idvar /filename =pred_c filetype=sas replace;
rformat AGE num5 FMT AGE.;
rformat PATC_num FMT_PAT.;
rformat PCM_num FMT_PCM.;
rformat RANK_num FMT_RANK.;
rformat sex_num FMT_SEX.;
rformat PNLC_num FMT_PNLC.;
rformat SVC_num FMT_SVC.;
rformat INCAT_num FMT_INCT.;
rformat trs FMT_TRS.;
rformat tnex_num FMT_tnex.;
rformat chcs_num FMT_CHCS.;
run;
%mend sudaan_conus;
/**********
/* 1st Approach (usual way) */
/********************
%sudaan_conus(
%str(Run0: Final Model from SAS stepwise),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
ches num
PNLC_num
INCAT_num
trs
tnex_num
AGE_num5*PATC_num
PATC_num*SVC_num
AGE num5*SVC num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
PNLC_num*RANK_num
AGE_num5*PNLC_num
AGE_num5*PATC_num*SVC_num
AGE_num5*PNLC_num*RANK_num
AGE_num5*RANK_num*sex_num
*Warnings in log, hl=0.5789;
*Interaction AGE*PATC known to produce singularity warnings.;
*Remove next: All AGE*PATC interactions (Note: AGE*PATC*SVC, p=0.025935);
%sudaan_conus(
%str(Run0a: Remove AGE*PATC interactions),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
chcs_num
PNLC num
INCAT_num
trs
tnex num
/* AGE_num5*PATC_num */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
```

```
RANK_num*sex_num
AGE_num5*chcs_num
PNLC_num*RANK_num
AGE num5*PNLC num
/* AGE_num5*PATC_num*SVC_num */
AGE_num5*PNLC_num*RANK_num
AGE_num5*RANK_num*sex_num
);
*Still has warnings in log, hl=0.3151;
*At least one insignificant variable;
*Do next: conduct testing on each interaction
type to find term(s) causing singularity;
%sudaan_conus(
%str(Run0b: Remove all interactions),
AGE num5
PATC_num
RANK num
SVC_num
sex_num
PCM_num
chcs_num
PNLC_num
INCAT_num
trs
tnex_num
AGE_num5*PATC_num
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
PNLC_num*RANK_num
AGE_num5*PNLC_num
AGE_num5*PATC_num*SVC_num
AGE_num5*PNLC_num*RANK_num
AGE_num5*RANK_num*sex_num
* /
);
*No warnings in log, hl=0.0284;
*At least one insignificant variable;
%sudaan_conus(
%str(Run0c: Add AGE*PATC interactions),
AGE_num5
PATC_num
RANK num
SVC_num
sex_num
PCM num
chcs_num
PNLC_num
INCAT_num
trs
tnex_num
AGE_num5*PATC_num
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
PNLC_num*RANK_num
AGE_num5*PNLC_num
* /
AGE_num5*PATC_num*SVC_num
AGE_num5*PNLC_num*RANK_num
```

```
AGE_num5*RANK_num*sex_num
* /
);
*Warnings in log, hl=0.0602;
*At least one insignificant variable;
%sudaan_conus(
%str(Run0d: Add other PATC interactions),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
chcs_num
PNLC_num
INCAT_num
trs
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
PNLC_num*RANK_num
AGE_num5*PNLC_num
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
AGE_num5*PNLC_num*RANK_num
AGE_num5*RANK_num*sex_num
*/
);
*No warnings in log, hl=0.0845;
*At least one insignificant variable;
%sudaan_conus(
%str(Run0e: Add AGE*PNLC interactions),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM num
chcs_num
PNLC_num
INCAT_num
trs
tnex_num
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
PNLC_num*RANK_num */
AGE_num5*PNLC_num
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
AGE_num5*PNLC_num*RANK_num
/* AGE_num5*RANK_num*sex_num */
);
*Warnings in log, hl=0.1471;
*At least one insignificant variable;
```

```
%sudaan_conus(
%str(Run0f: Add PNLC*RANK interaction),
AGE_num5
PATC num
RANK_num
SVC_num
sex_num
PCM_num
chcs_num
PNLC_num
INCAT_num
trs
tnex_num
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
* /
PNLC_num*RANK_num
/* AGE_num5*PNLC_num */
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */
/* AGE_num5*RANK_num*sex_num */
);
*No warnings in log, hl=0.0276;
*At least one insignificant variable;
%sudaan_conus(
%str(Run0g: Add other AGE and RANK interactions),
AGE num5
PATC_num
RANK_num
SVC_num
sex num
PCM_num
chcs_num
PNLC_num
INCAT_num
trs
tnex_num
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
/* PATC_num*SVC_num */
AGE_num5*SVC_num
AGE_num5*RANK_num
/* PATC_num*RANK_num */
AGE_num5*sex_num
/* RANK_num*sex_num */
AGE_num5*chcs_num
/* PNLC_num*RANK_num */
/* AGE_num5*PNLC_num */ /* Removed, causes singularities */
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */ /* Removed, causes singularities */
AGE_num5*RANK_num*sex_num
*No warnings in log, hl=0.4163;
*At least one insignificant variable;
%sudaan_conus(
%str(Run1: Add all interactions not giving warnings),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
chcs num
PNLC_num
INCAT_num
```

```
trs
tnex num
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC num*SVC num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
PNLC_num*RANK_num
/* AGE_num5*PNLC_num */ /* Removed, causes singularities */
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */ /* Removed, causes singularities */
AGE_num5*RANK_num*sex_num
);
*No warnings in log, hl=0.7262;
*remove next: PNLC*RANK, p=0.518632;
%sudaan_conus(
%str(Run2: Remove PNLC*RANK),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
chcs_num
PNLC_num
INCAT_num
trs
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
/* PNLC_num*RANK_num */ /* 1st */
/* AGE_num5*PNLC_num */ /* Removed, causes singularities */
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */ /* Removed, causes singularities */
AGE_num5*RANK_num*sex_num
*No warnings in log, hl=0.6163;
*remove next: TNEX_NUM, p=0.243066;
%sudaan_conus(
%str(Run2: Remove TNEX),
AGE num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
chcs_num
PNLC_num
INCAT_num
/* tnex_num */ /* 2nd */
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
/* PNLC_num*RANK_num */ /* 1st */
/* AGE_num5*PNLC_num */ /* Removed, causes singularities */
```

```
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */ /* Removed, causes singularities */
AGE_num5*RANK_num*sex_num
*No warnings in log, hl=0.3246;
*remove next: TRS, p=0.122918;
%sudaan_conus(
%str(Run3: Remove TRS),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
chcs_num
PNLC_num
INCAT_num
/* trs */ /* 3rd */
/* tnex_num */ /* 2nd */
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
/* PNLC_num*RANK_num */ /* 1st */
/* AGE_num5*PNLC_num */ /* Removed, causes singularities */
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */ /* Removed, causes singularities */
AGE_num5*RANK_num*sex_num
*No warnings in log, hl=0.4325;
*remove next: PNLC_NUM, p=0.675161;
%sudaan_conus(
%str(Run4: Remove PNLC),
AGE_num5
PATC_num
RANK_num
SVC_num
sex_num
PCM_num
chcs_num
/* PNLC_num */ /* 4th */
INCAT_num
/* trs */ /* 3rd */
/* tnex num */ /* 2nd */
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
/* PNLC_num*RANK_num */ /* 1st */
/* AGE_num5*PNLC_num */ /* Removed, causes singularities */
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */ /* Removed, causes singularities */
AGE_num5*RANK_num*sex_num
*No warnings in log, hl=0.3468;
*All variables significant;
*<<< CONUS FINAL MODEL >>>;
%sudaan_conus(
```

```
%str(Run5: Final CONUS model),
AGE num5
PATC_num
RANK num
SVC_num
sex num
PCM_num
chcs_num
/* PNLC_num */ /* 4th */
INCAT_num
/* trs */ /* 3rd */
/* tnex_num */ /* 2nd */
/* AGE_num5*PATC_num */ /* Removed, causes singularities */
PATC_num*SVC_num
AGE_num5*SVC_num
AGE_num5*RANK_num
PATC_num*RANK_num
AGE_num5*sex_num
RANK_num*sex_num
AGE_num5*chcs_num
/* PNLC_num*RANK_num */ /* 1st */
/* AGE_num5*PNLC_num */ /* Removed, causes singularities */
/* AGE_num5*PATC_num*SVC_num */ /* Removed, causes singularities */
/* AGE_num5*PNLC_num*RANK_num */ /* Removed, causes singularities */
AGE_num5*RANK_num*sex_num
);
*No warnings in log, hl=0.3468;
*All variables significant;
*------
Start the modeling for OCONUS
In the full model, all the variables put in the answer tree are used as main effects, and
the interactions are picked based on the tree for Oconus Al for the current quarter
______
/*The interactions below are determined based on the oconus Al tree for the current quarter*/
data oconus;
set oconus;
age_grp5_old=age_grp5;
if age_grp5='5' then do;
age grp5='4';
age_num5=4;
end;
run;
title3 'Check the collapsements (Oconus)';
proc freq data=oconus;
tables age_grp5*age_grp5_old
     /missing list;
run;
%let Vars_in_interactions_oconus = age_grp5 patc_grp pcm_grp pnlc_grp svc_grp sex_grp rank_grp
in_catch chcsaddr;
%let Interactions_from_chaid_oconus =
/*Q3FY2013: Interactions from Chaid OconusA1 Tree*/
age_grp5*sex_grp*in_catch
age_grp5*sex_grp*svc_grp
age_grp5*svc_grp*patc_grp
age_grp5*svc_grp*rank_grp
age_grp5*patc_grp*rank_grp
```

```
/*Q3FY2013: Two way interaction from the three ways above*/
age_grp5*sex_grp
age_grp5*svc_grp
age_grp5*patc_grp
age_grp5*rank_grp
age_grp5*in_catch
sex_grp*in_catch
sex_grp*svc_grp
svc_grp*patc_grp
svc_grp*rank_grp
patc_grp*rank_grp
title3 "Check the zero cells for Oconus";
%ZERO_ONE_CELLS(oconus, &Vars_in_interactions_oconus., eligkwn,
&Interactions_from_chaid_oconus.);
/* Q3FY2013:
Obs
       AGE_grp5
                       PATC_grp
                                      SVC_grp SEX_grp
                                                              RANK_grp
                                                                             eligkwn_Mean
       eligkwn_N
1
                  2
                       NADD
                                   N/M/C/O/U
                                                                                  Ω
                                                                                            15
2
               1
                                                                      W45045678910
                                                                                            0
                                           Army
37
3
                                           N/M/C/O/U
                                                                  W45045678910
               1
13
4
               4
                                           Air Force
                                                                  E1234
                                                                                             0
5
5
               4
                                          N/M/C/O/U
                                                                  W1230123
                                                                                         0
15
               1
                       NADD
                                                                         E1234
6
               25
7
                       NADD
                                                                         E1234
               3
0
               23
                       NADD
                                                                          W1230123
                                                                                                0
8
               3
8
9
               4
                       ACTDTY
                                                                          E1234
0
                1
10
               4
                       ACTDTY
                                                                          W1230123
                                                                                                0
5
11
               4
                       DEPACT
                                                                          E1234
Ω
                2
12
               4
                       DEPACT
                                                                          W1230123
                                                                                                Ω
3
                                                                               =======
                                                        152
* /
*03FY2013;
title3 "Check to see how to collapse : Oconus";
proc freq data=oconus;
tables AGE_grp5*PATC_grp*SVC_grp*eligkwn
AGE_grp5*SVC_grp*RANK_grp*eligkwn
AGE_grp5*PATC_grp*RANK_grp*eligkwn /missing list SPARSE;
run;
/*Collapse the Zero Cells*/
data oconus;
set oconus;
rank_grp_old=rank_grp;
patc_grp_old=patc_grp;
if age_grp5 = '2' and patc_grp in ('NADD') and svc_grp in ('N/M/C/O/U') then do;
```

patc_grp='DEPACT';

```
patc_num=2;
  flag1=1;
end;
else if age_grp5 = '1' and svc_grp='Army' and rank_grp in ('W45045678910') then do;
   rank_grp='W1230123';
   rank_num=3;
   flag2=1;
end;
else if age_grp5 = '1' and svc_grp='N/M/C/O/U' and rank_grp in ('W45045678910') then do;
   rank_grp='W1230123';
   rank_num=3;
   flag3=1;
end;
else if age_grp5 = '4' and svc_grp = 'Air Force' and rank_grp in ('E1234') then do;
  rank_grp='E56789101112';
   rank_num=2;
   flag4=1;
end;
else if age_grp5 = '4' and svc_grp = 'N/M/C/O/U' and rank_grp = 'W1230123' then do;
   rank_grp='W45045678910';
   rank num=4;
   flag5=1;
end;
else if age_grp5 = '1' and patc_grp = 'NADD' and rank_grp = 'E1234' then do;
   rank_grp='E56789101112';
   rank_num=2;
   flag6=1;
end;
else if age_grp5 = '3' and patc_grp = 'NADD' and rank_grp = 'E1234' then do;
   rank_grp='E56789101112';
   rank_num=2;
   flag7=1;
end;
else if age_grp5 = '3' and patc_grp = 'NADD' and rank_grp = 'W1230123' then do;
   rank_grp='W45045678910';
   rank_num=4;
   flaq8=1;
end;
else if age_grp5 = '4' and patc_grp = 'ACTDTY' and rank_grp = 'E1234' then do;
   rank_grp='E56789101112';
   rank_num=2;
   flaq9=1;
end;
else if age_grp5 = '4' and patc_grp = 'ACTDTY' and rank_grp = 'W1230123' then do;
  rank_grp='W45045678910';
   rank_num=4;
   flag10=1;
end;
else if age_grp5 = '4' and patc_grp = 'DEPACT' and rank_grp = 'E1234' then do;
  rank_grp='E56789101112';
   rank_num=2;
   flag11=1;
end;
else if age_grp5 = '4' and patc_grp = 'DEPACT' and rank_grp = 'W1230123' then do;
   rank_grp='W45045678910';
   rank_num=4;
   flag12=1;
end;
run;
```

```
*Q3FY2013;
title3 'Checks zero cell collapsements (OCONUS)';
proc freq data=oconus;
tables age_grp5*patc_grp*svc_grp*patc_grp_old*flag1
age_grp5*svc_grp*rank_grp*rank_grp_old*flag2*flag3*flag4*flag5
age_grp5*patc_grp*rank_grp_old*flag6*flag7*flag8*flag9*flag10*flag11*flag12/missing
list;
run;
title3 "Check the zero cells for oconus again";
%ZERO_ONE_CELLS(oconus, &Vars_in_interactions_oconus., eligkwn,
&Interactions_from_chaid_oconus.);
*03FY2013;
data oconus;
  set oconus(drop=rank_grp_old patc_grp_old flag1-flag12);
********
/* SAS modeling*/
********************
%macro modelselect_oconus(method= );
title3 "SAS Logistic for OCONUS - &method.";
proc logistic data=oconus descending;
CLASS
AGE_grp5 (ref='1')
PATC_grp (ref='NADD')
PCM_grp (ref='NON')
PNLC_grp (ref='Other')
RANK_grp (ref='E1234')
SEX_grp (ref='1')
SVC_grp (ref='Army')
IN_CATCH (ref='0')
       (ref='2')
TRS
CHCSAddr (ref='0')
/*HASEmail(ref='YES')*/
/param=ref descending;
MODEL eligkwn =
AGE_grp5
PATC_grp
PCM_grp
PNLC_grp
RANK_grp
SEX_grp
SVC_grp
IN_CATCH
TRS
CHCSAddr
/*Q3FY2013: Interactions from Chaid OconusA1 Tree*/
age_grp5*sex_grp*in_catch
age_grp5*sex_grp*svc_grp
age_grp5*svc_grp*patc_grp
age_grp5*svc_grp*rank_grp
age_grp5*patc_grp*rank_grp
/*Q3FY2013: Two way interaction from the three ways above*/
age_grp5*sex_grp
age_grp5*svc_grp
age_grp5*patc_grp
age_grp5*in_catch
age_grp5*rank_grp
sex_grp*in_catch
sex_grp*svc_grp
svc_grp*patc_grp
svc_grp*rank_grp
patc_grp*rank_grp
```

```
/Lackfit rsquare details hierarchy=single selection=&method. slentry=0.15 slstay=0.20;
OUTPUT OUT=out_oconus PREDICTED=predicted;
run;
%mend modelselect_oconus;
%modelselect_oconus(method=stepwise);
/* Q3FY2013:
                          Summary of Stepwise Selection
                      Effect
                                                 Number
                                                                Score
                                                                                Wald
                                                In Chi-Square
                                                                 Chi-Square
Step
       Entered
                        Removed
                                     DF
                                                                                Pr > ChiSq
                                                        1
                                                             190.4197
       AGE_grp5
<.0001
   2
       PATC_grp
                                                  2
                                                        2
                                                               76.7086
<.0001
                                              2
  3
       SVC_grp
                                                        3
                                                               38.4775
<.0001
                                          4
                                                 4
                                                       52.9325
  4
       PATC_grp*SVC_grp
<.0001
  5
                                                  3
                                                              17.0504
       RANK_grp
0.0007
  6
                                                 6
                                                       18.9742
       RANK_grp*SVC_grp
                                          6
0.0042
                                                       25.4003
  7
       AGE_grp5*RANK_grp
0.0026
  8
       TRS
                                           1
                                                 8
                                                        4.2758
0.0387
  9
       AGE_grp5*PATC_grp
                                          6
                                                9
                                                       13.0445
0.0423
                                              2
                                                                4.6471
 1.0
       PCM_grp
                                                       10
0.0979
                                                                4.0556
 11
                                              1
                                                       11
       in_catch
0.0440
                                                                            0.0564
 12
       AGE_grp5*in_catch
                                     3
                                           12
                                                    7.5441
proc sort data=oconus;
by STRAT_nm;
%macro sudaan_oconus(ttl,vars);
title3 "The Final Model from SAS stepwise -OCONUS";
title4 " &ttl.";
proc rlogist data=oconus design=STRWR filetype=SAS;
NEST STRAT_nm / missunit;
weight bwt;
        AGE_num5
                      PATC_num
CLASS
                                  PCM_num
                                              PNLC_num
                                                          RANK_num
                                                                      sex num
         SVC_num
                                                                chcs_num;
                      TRS
                               incat_num
                                             /*tnex_num*/
REFLEVEL AGE_num5=1
                     PATC_num=3 PCM_num=1 pnlc_num=1 RANK_num=1 SEX_num=1
         SVC_num=1
                     TRS=2 incat_num=1
                                            /*tnex_num=1*/
                                                               chcs_num=1;
MODEL eligkwn = &vars.;
idvar MPRID_nm;
print beta sebeta t_beta p_beta
HLCHISQ HLCHIDF HLCHIP HLWALDF HLWALDDF HLWALDP HLSATF HLSATDF HLSATP DF WALDCHI WALDCHP
/betafmt=f7.3 sebetafmt=f7.3 WALDCHIFMT=F8.2 waldchpfmt=f8.6;;
output expected observed nest idvar /filename =pred_o filetype=sas replace;
rformat AGE_num5 FMT_AGE.;
rformat PATC_num FMT_PAT.;
rformat PCM_num FMT_PCM.;
rformat PNLC_num FMT_PNLC.;
rformat RANK_num FMT_RanK.;
rformat sex_num FMT_sex.;
rformat SVC_num FMT_SVC.;
```

rformat INCAT_num FMT_INCT.;
rformat trs FMT_TRS.;
*rformat tnex_num FMT_tnex.;
rformat chcs_num fmt_chcs.;

```
run;
%mend sudaan_oconus;
/**********
/* 1st Approach (usual way) */
/********************
%sudaan_oconus(
%str(Run0: Final model from SAS stepwise),
AGE_num5
PATC_num
SVC_num
PATC_num*SVC_num
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
AGE_num5*PATC_num
PCM_num
INCAT_num
AGE_num5*INCAT_num
*NO warnings in log, hl=0.0012
*Remove next: AGE*PATC p=0.146863;
%sudaan_oconus(
%str(Run1: Drop AGE*PATC),
AGE_num5
PATC_num
{\tt SVC\_num}
PATC_num*SVC_num
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
/* AGE_num5*PATC_num */
PCM_num
INCAT_num
AGE_num5*INCAT_num
*NO warnings in log, hl=0.0001;
*Remove next: PATC*SVC p=0.103256;
%sudaan_oconus(
%str(Run2: Drop AGE*PATC, PATC*SVC),
AGE_num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
/* AGE_num5*PATC_num */
PCM_num
INCAT_num
AGE_num5*INCAT_num
);
*No warnings in log, hl=0.0315;
*All variables significant;
/*******
/* 2nd APPROACH */
/*********
NOTE (Q2FY2013t):
Run6 has significant p-values for the final variables, but the H-L Satterthwaite
p-value is very low. We will continue to drop (AGE*PATC) and (AGE*PATC*SVC),
which created singularities, from all models.
       Trying a different method below by dropping:
       (1) last variable entered in SAS Stepwise model
```

```
(3) last three variables entered in SAS Stepwise model
       (4) last four variables entered in SAS Stepwise model
        Last four variables removed from stepwise regression:
                 9 AGE_grp5*PATC_grp
                 10 PCM_grp
                 11 in_catch
                 12 AGE_grp5*in_catch
%sudaan_oconus(
%str(Run3: Drop AGE*INCAT),
AGE num5
PATC_num
SVC_num
PATC_num*SVC_num
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
AGE_num5*PATC_num
PCM_num
INCAT_num
/* AGE_num5*INCAT_num */ /* Last */
);
*No warnings in log, hl=0.0021;
*Insignificant variables: PATC*SVC p=0.093254
AGE*PATC p=0.055090
PCM p=0.487499
INCAT p=0.090020
%sudaan_oconus(
%str(Run4: Drop(AGE*INCAT), INCAT),
AGE_num5
PATC_num
SVC_num
PATC_num*SVC_num
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
AGE_num5*PATC_num
PCM_num
/* INCAT_num */ /* 2nd to Last */
/* AGE_num5*INCAT_num */ /* Last */
);
*No warnings in log, hl=0.0006;
*Insignificant variables: PATC*SVC p=0.083016
AGE*PATC p=0.051722
PCM p=0.872100;
%sudaan_oconus(
%str(Run5: Drop(AGE*INCAT), INCAT, PCM),
AGE_num5
PATC_num
SVC_num
PATC_num*SVC_num
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
AGE_num5*PATC_num
/* PCM_num */ /* 3rd to Last */
/* INCAT_num */ /* 2nd to Last */
/* AGE_num5*INCAT_num */ /* Last */
);
*No warnings in log, hl=0.0010;
*Insignificant variables: PATC*SVC p=0.093571
AGE*PATC p=0.057003;
%sudaan_oconus(
```

(2) last two variables entered in SAS Stepwise model

```
AGE_num5
PATC_num
SVC num
PATC_num*SVC_num
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
/* AGE_num5*PATC_num */ /* 4th to Last */
/* PCM_num */ /* 3rd to Last */
/* INCAT_num */ /* 2nd to Last */
/* AGE_num5*INCAT_num */ /* Last */
);
*No warnings in log, hl=0.0073;
*Insignificant variables: PATC*SVC p=0.106056;
/* 3rd APPROACH */
*Starting with Main Effects only from SAS Stepwise final model. Then addding
interactions one by one into model (trial and error method).;
%sudaan_oconus(
%str(Run7: Main Effects Only),
AGE_num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK_num
/* RANK_num*SVC_num */
/* AGE_num5*RANK_num */
trs
/* AGE_num5*PATC_num */
PCM_num
INCAT_num
/* AGE_num5*INCAT_num */
);
*No warnings in log, hl=0.0080;
*Drop PCM p=0.263325;
%sudaan_oconus(
%str(Run8: Drop PCM),
AGE_num5
PATC_num
SVC num
/* PATC_num*SVC_num */
RANK_num
/* RANK_num*SVC_num */
/* AGE_num5*RANK_num */
trs
/* AGE_num5*PATC_num */
/* PCM_num */
INCAT_num
/* AGE_num5*INCAT_num */
);
*No warnings in log, hl=0.0050;
*Add AGE*INCAT since INCAT_NUM p=0.330745;
%sudaan_oconus(
%str(Run8: Add (AGE*INCAT)),
AGE num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK_num
/* RANK_num*SVC_num */
/* AGE_num5*RANK_num */
```

%str(Run6: Drop(AGE*INCAT), INCAT, PCM, AGE*PATC),

```
/* AGE_num5*PATC_num */
/* PCM_num */
INCAT_num
AGE_num5*INCAT_num
*No warnings in log, hl=0.0171;
*Add AGE*RANK since RANK_NUM p=0.063093;
%sudaan_oconus(
%str(Run9: Add (AGE*RANK)),
AGE_num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK_num
/* RANK_num*SVC_num */
AGE_num5*RANK_num
trs
/* AGE_num5*PATC_num */
/* PCM_num */
INCAT_num
AGE_num5*INCAT_num
*No warnings in log, hl=0.0050;
*Add RANK*SVC to see if increase in significance;
%sudaan_oconus(
%str(Run10: Add (RANK*SVC)),
AGE_num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
/* AGE_num5*PATC_num */
/* PCM_num */
INCAT_num
AGE_num5*INCAT_num
*No warnings in log, hl=0.0465;
*Drop AGE*INCAT p=0.071637;
%sudaan_oconus(
%str(Run10: Drop (AGE*INCAT)),
AGE_num5
PATC_num
SVC num
/* PATC_num*SVC_num */
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
/* AGE_num5*PATC_num */
/* PCM_num */
INCAT_num
/* AGE_num5*INCAT_num */
*No warnings in log, hl=0.1170;
*Drop INCAT p=0.301365;
%sudaan_oconus(
%str(Run10: Drop (INCAT)),
AGE_num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
```

```
/* AGE_num5*PATC_num */
/* PCM_num */
/* INCAT_num */
/* AGE_num5*INCAT_num */
);
*No warnings in log, hl=0.4495;
*All variables significant;
%sudaan_oconus(
%str(Runl1: Drop TRS),
AGE_num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
/* trs */
/* AGE_num5*PATC_num */
/* PCM_num */
/* INCAT_num */
/* AGE_num5*INCAT_num */
);
*No warnings in log, hl=0.1799;
*All variables significant;
*<<<< OCONUS FINAL MODEL >>>>>;
%sudaan_oconus(
%str(Run12: Final Oconus Model),
AGE num5
PATC_num
SVC_num
/* PATC_num*SVC_num */
RANK_num
RANK_num*SVC_num
AGE_num5*RANK_num
trs
/* AGE_num5*PATC_num */
/* PCM_num */
/* INCAT_num */
/* AGE_num5*INCAT_num */
);
*No warnings in log, hl=0.4495;
*All variables significant;
*------
Compute the unknown eligibility adjustment factor Al
=;
data pred;
set pred_c pred_o;
run;
proc sort data=pred;
by mprid_nm;
run;
proc sort data=logmdA1;
by mprid_nm;
run;
data logmdA1 only1 only2 problem;
merge logmdA1(in=A) pred(in=B);
by mprid_nm;
if A and B then output logmdA1;
else if A and NOT B then output only1;
else if B and NOT A then output only2;
else output problem;
```

```
data out.logmdA1;
set logmdA1(rename=(expected=PscoreA1) drop=MPRID_c9 stratum1);
label TNEX_grp="Facility's TNEX region"
     PscoreAl="Propensity score for unknown eligibility adjustment";
run;
Title3 "Proc Print if PscoreA1 is Missing (Problem):";
proc freq data=out.logmdA1;
tables pscoreAl/list missing;
where pscoreA1=.;
run;
title3 "Univariate of expected";
title4;
proc univariate data=out.logmdA1;
var PscoreA1;
run;
title3 "Contents of OUT.logmdA1";
title4;
proc contents data=OUT.logmdA1;
run;
************* The End *************;
```

F.7.A Q3FY2013\Programs\Weighting\NewWeights\Zero_One_Cells.SAS - Include file for logmdaA1.sas.

```
*****************************
*** MACRO
*** Project: Charter School (6043-100)
*** Program: H:\SCRATCH\HXu\CommonProgramsData\Zero_One_Cells.sas
*** Purpose: Check the zero cells
***
*** Inputs:
*** Outputs:
***
*** Note: This macro is originally written by Fan Zhang from {\tt NSF}
*************************
%MACRO ZERO_ONE_CELLS(INPUT_DATA, CLASS_VARS, INPUT_VARS, BY_VARS);
PROC TABULATE DATA=&INPUT_DATA OUT=TABLE_TEMP1 (DROP=_TYPE_ _PAGE_ _TABLE_);
  CLASS &CLASS_VARS.;
  VAR &INPUT_VARS.;
  TABLES &BY_VARS.,
       &INPUT_VARS.*(MEAN N);
RUN;
DATA TABLE_TEMP2;
  SET TABLE_TEMP1;
  IF &INPUT_VARS._MEAN IN (0, 1);
PROC PRINT DATA=TABLE_TEMP2;
  SUM &INPUT_VARS._N;
%MEND ZERO_ONE_CELLS;
```

F.8 Q3FY2013\Programs\Weighting\NewWeights\adjwt1.SAS - Form the weighting classes from the propensity scores then calculate the unknown eligibility adjusted weight - Run Quarterly.

```
dm 'clear output;clear log';
*******************************
**
*** Program: Adjwt1.sas
*** Task : 06663.200
*** Purpose: - Create the weighting class cells based on the propensity from
***
              the unknown eligibility modeling
***
            - Calculate the unknown eligibility adjusted weight
***
*** Inputs: logmdA1.sas7bdat, framea.sas7bat
*** Outputs: adjwt1.sas7bdat
***
*** Note: 1)S.Rahman for Q4FY2010:
          We got really big adjwt1 of over 10.000, and postwt of over 9000.
***
            In adjwt1.sas, we need to collapse pcell_a1 1001 with 1002.
***
          2)A.Borgen for Q3FY2011:
***
            We had a couple of large postwt (over 9000) observations so we collapsed
***
            pcell_al 1001 with 1002 and pcell_al 1101 with 1102 in adjwtl.sas.
***
          3)A.Borgen for Q4FY2011:
           We have large postwt (over 9000) observations so similar to previous quarter
***
            we collapsed pcell_a1 1001 with 1002 and pcell_a1 1101 with 1102 in adjwt1.sas.
*********
options ls=132 ps=79 compress=yes nocenter FORMCHAR='|-+++++++++' formdlim='~' obs=max;
%let quarter=Q3FY2013;
             "L:\&quarter.\Data\afinal"; /* logmdA1.sas7bdat */
"L:\&quarter.\Data\afinal"; /* framea.sas7bdat */
"L:\&quarter.\Data\afinal"; /* adjwt1.sas7bdat */
libname in
libname in_f
libname out
title1 "Program: Adjwt1.sas (&quarter.)";
title2 "Purpose: Calculate the unknown Eligibility Adjusted Weight";
***Calculate the denciles within conus region;
%macro univ_conus(inputdata=, step=, region=, var=, cellvar=, outputdata=);
proc univariate data=&inputdata. noprint;
var &var.;
where conus="&region.";
output out=out pctlpts =10 20 30 40 50 60 70 80 90 pctlpre=cutoff;
title3 "Cutoff points for conus=&region.";
proc print data=out;
var cutoff10 cutoff20 cutoff30 cutoff40 cutoff50
    cutoff60 cutoff70 cutoff80 cutoff90;
run;
data temp;
set &inputdata.;
M=1;
where conus="&region.";
run;
data out;
set out;
M=1;
run;
data &outputdata.;
merge temp out;
by M;
```

```
run;
data &outputdata.;
set &outputdata.;
length &cellvar. $4;
if &var.<=cutoff10 then &cellvar. = "&step.&region.01";</pre>
else if &var.<=cutoff20 then &cellvar. = "&step.&region.02";</pre>
else if &var.<=cutoff30 then &cellvar. = "&step.&region.03";
else if &var.<=cutoff40 then &cellvar. = "&step.&region.04";
else if &var.<=cutoff50 then &cellvar. = "&step.&region.05";
else if &var.<=cutoff60 then &cellvar. = "&step.&region.06";
else if &var.<=cutoff70 then &cellvar. = "&step.&region.07";</pre>
else if &var.<=cutoff80 then &cellvar. = "&step.&region.08";
else if &var.<=cutoff90 then &cellvar. = "&step.&region.09";
else if &var. >cutoff90 then &cellvar. = "&step.&region.10";
run;
data &outputdata.;
set &outputdata.;
drop cutoff10 cutoff20 cutoff30 cutoff40 cutoff50
     cutoff60 cutoff70 cutoff80 cutoff90 M;
title3 "Freq of &cellvar.*&var. for conus=&region.";
proc freq data=&outputdata.;
tables &cellvar. &cellvar.*&var. /missing list;
run;
%mend univ_conus;
***Calculate the 20th percentiles within oconus region;
%macro univ_oconus(inputdata=, step=, region=, var=, cellvar=, outputdata=);
proc univariate data=&inputdata. noprint;
var &var.;
where conus="&region.";
output out=out pctlpts =20 40 60 80 pctlpre=cutoff;
title3 "Cutoff points for conus=&region.";
proc print data=out;
var cutoff20 cutoff40 cutoff60 cutoff80 ;
run;
data temp;
set &inputdata.;
M=1;
where conus="&region.";
run;
data out;
set out;
M=1;
run;
data &outputdata.;
merge temp out;
by M;
run;
data &outputdata.;
set &outputdata.;
length &cellvar. $4;
if &var.<=cutoff20 then &cellvar. = "&step.&region.01";
else if &var.<=cutoff40 then &cellvar. = "&step.&region.02";
else if &var.<=cutoff60 then &cellvar. = "&step.&region.03";
else if &var.<=cutoff80 then &cellvar. = "&step.&region.04";
else if &var. >cutoff80 then &cellvar. = "&step.&region.05";
run;
data &outputdata.;
set &outputdata.;
drop cutoff20 cutoff40 cutoff60 cutoff80 M;
```

```
run;
title3 "Freq of &cellvar.*&var. for conus=&region.";
proc freq data=&outputdata.;
tables &cellvar. &cellvar. *&var. /missing list;
%mend univ_oconus;
********************
Compute the dencile of PscoreAl within conus/oconus region
%univ_conus(inputdata=in.logmdA1, step=1, region=1, var=PscoreA1, cellvar=Pcell_A1,
outputdata=Alconus);
%univ_oconus(inputdata=in.logmdA1, step=1, region=0, var=PscoreA1, cellvar=Pcell_A1,
outputdata=Aloconus);
**Reason for Collapse Cell Below:(Q3FY2013):
                                             SUMG1
                                                         SUMG2
                                                                   SUMG3
    Pcell_A1
              cntg1
                    cntg2 cntg3
                                    CELLCNT
         A1
SUMBWT
1 1001
                 62
                       4
                             1546
                                      1612
                                             2806.28
                                                         208.90
                                                                 81449.69
84464.87 28.0132
2 1002
                 82
                        1
                            1194
                                     1277
                                            3950.31
                                                         44.12 56105.68
60100.10
        15.0460
6 1101
                124
                        6
                             4260
                                      4390
                                            10891.61
                                                         320.18 466470.96
477682.75 42.6054
                299
 7 1102
                       6
                             4029
                                      4334
                                             21936.10
                                                         295.28 319824.18
342055.56 15.3862
* /
***combine conus/oconus together;
data merged;
set Alconus Aloconus;
/***************
Comment Out the next 2 lines next quarter if not needed:
*Q3FY2013 :Collapsing;
if Pcell_A1='1001' then Pcell_A1='1002';
else if Pcell_A1='1101' then Pcell_A1='1102';
run;
*******************
* Start to calculate the adjusted weight using the weighting class method
%MACRO PROCESS(DOMAIN1, INPT);
 *** Initial Information. ***;
  title3 "Frame (FRAMEA) Count";
  proc freq data=in_f.framea;
  table enbgsmpl / list missing;
  run;
  title3 "Weighted Counts Using BWT as the Weight - excluding fnstatus=32";
  proc freq data=&inpt.;
  table enbgsmpl fnstatus / list missing;
  weight bwt;
  run;
  title3 "Sample Counts - excluding fnstatus=32";
  proc freq data=&inpt.;
  table enbgsmpl fnstatus web*fnstatus/ list missing;
  run;
  PROC SORT DATA=&inpt.;
  BY &DOMAIN1.;
```

RUN;

```
* Calculate adjustment factor Al for each cell.
* This is the Eligibility Determination adjustment.
                    *****************
Data cellsa1 (keep=sumbwt sumg1-sumg3 A1 cellcnt cntg1-cntg3 &domain1.)
    mpridsal (keep=mprid fnstatus bwt &domain1. com_geo enbgsmpl)
  SET &INPT.;
  BY &DOMAIN1.;
  IF FIRST.&DOMAIN1. THEN DO;
    CELLCNT = 0;
    cntg1 = 0;
    cntg2 = 0;
    cntg3 = 0;
SUMBWT = 0.0;
    SUMG1 = 0.0;
    SUMG2 = 0.0;
SUMG3 = 0.0;
    A1 = 0.0;
  END;
  CELLCNT + 1;
  ************
  * Accumulate total weight sum
  SUMBWT + BWT;
  ************
  * Accumulate group 1 weight sum
  *************************************
  IF FNSTATUS IN (11,12) THEN
    do;
       SUMG1 + BWT;
       cntg1 + 1;
    end;
  ***************
  * Accumulate group 2 weight sum
  *******************
  ELSE IF FNSTATUS in (20,31) THEN
    do;
      SUMG2 + BWT;
       cntg2 + 1;
    end;
  ************
  * Accumulate group 3 weight sum
  ELSE IF FNSTATUS in (41,42) THEN
    do;
       SUMG3 + BWT;
       cntg3 + 1;
    end;
  RETAIN SUMBWT SUMG1-SUMG3 A1 CELLCNT cntg1-cntg3 MPRID;
  IF LAST.&DOMAIN1. THEN DO;
    A1 = SUMBWT/(SUMG1 + SUMG2);
    OUTPUT CELLSA1;
  END;
  OUTPUT MPRIDSA1;
RUN;
title3 "Check for CELLSA1 Data Set";
proc print data=cellsal;
var &domain1. cntg1-cntg3 cellcnt sumg1-sumg3 sumbwt al;
sum cellcnt cntg1 cntg2 cntg3 sumbwt sumg1 sumg2 sumg3;
```

```
title3 "Checks the Adjustment ratio";
title4 "Print if: (al> 7) or (cntg1 + cntg2 < 100)";
proc print data=cellsal;
where ( a1>7 ) or ( cntg1+cntg2<100 );
var &domain1. cntg1-cntg3 cellcnt sumg1-sumg3 sumbwt al;
sum cellcnt cntg1 cntg2 cntg3 sumbwt sumg1 sumg2 sumg3;
title3 "Univariate of Adjustment ratio (A1)";
proc univariate data=cellsal normal ;
var al;
proc sort data=mpridsal;
by &domain1.;
run;
proc sort data=cellsa1;
by &domain1.;
run;
data adj_one;
merge mpridsal cellsal;
by &domain1.;
if fnstatus in (11,12,20,31) then adj1 = a1;
   else adj1 = 0;
adjwt1 = adj1 * bwt;
run;
title3 "Checks for ADJ_ONE Data Set";
title4 "Cross Freq of fnstatus and Adjustment Factor by various Domains";
proc freq data=adj_one;
table &domain1.*fnstatus*adj1/ list missing;
run;
title3 "Checks for ADJ_ONE Data Set";
title4 "Cross Freq of Adjusted Weight (Adjwt1) and BWT by variaous Domains";
proc freq data=adj_one;
tables adjwt1*&domain1.*bwt/missing list;
where adjwt1 ~=0;
run;
proc freq data=adj_one;
tables &domain1.*stratum*bwt/missing list;
where adjwt1 ~=0;
run;
* /
title3 " Checking the individuals with the largest adjwt";
proc sort data=adj_one out=sorted;
by descending adjwt1;
run;
title3 " Checking the individuals with the largest adjwt";
title4 " sorting adjwt1 descending order (obs=200)";
proc print data=sorted (obs=200);
var &domain1. fnstatus BWT al adjl adjwt1;
run;
proc means data=adj_one n sum NOPRINT;
class enbgsmpl;
var adjwt1;
output out=print sum=sum;
Title3 "Print the Proc Means of Adjwt1 by enbgsmpl";
Proc print data=print;
sum _freq_ sum;
where _type_=1;
run;
```

```
*****
* Sort the original data
************************
PROC SORT DATA=&INPT.;
BY MPRID;
*******************
* Sort the ADJ_ONE data set
*************************
PROC SORT DATA=adj_one;
BY MPRID;
*******************
* Append the adjusted weight variable (adjwt1)
************************
DATA out.adjwt1;
  MERGE adj_one(in=A) &INPT.(in=B);
  BY MPRID;
  if A and B;
RUN;
title3 "Sum of Adjusted Weight (Adjwt1) by Final Status";
proc means data=out.adjwt1 n sum NOPRINT;
class fnstatus;
var adiwt1;
output out=print sum=sum;
run;
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;
title3 "Proc Univariate of Adjusted Weight";
title4 "Propensity Score Weighting Method - Individual Level Adjwt";
title5 " where fnstatus=11";
proc univariate data=out.adjwt1 normal ;
where fnstatus=11;
var adjwt1;
run;
/*Beneficiary's tnexreg*/
proc sort data=out.adjwt1;
by tnexreg;
run;
title3 "Distribution of weights by tnexreg";
title4 " where fnstatus=11";
proc means data=out.adjwt1 noprint ;
where fnstatus=11;
var adjwt1;
by tnexreg;
output out=out_tnex(drop=_type_ _freq_) n=n mean=mean std=stddev min=min max=max ;
proc print data=out_tnex;
sum n;
run;
/*Facility's tnexreg*/
proc sort data=out.adjwt1;
by TNEX_grp;
run;
title3 "Distribution of weights by Facility's TNEX region: TNEX_grp";
title4 " where fnstatus=11";
proc means data=out.adjwt1 noprint ;
where fnstatus=11;
var adiwt1;
by TNEX_grp;
output out=out_tnex(drop=_type_ _freq_) n=n mean=mean std=stddev min=min max=max ;
```

```
run;
proc print data=out_tnex;
sum n;
run;
************************
* Calculate final weight based on user-specified parameters.
%MEND PROCESS;
%PROCESS(Pcell_A1, merged);
/*Added in Q1FY2013*/
title "Checks ADJWT1>9000:";
data max1;
set out.adjwt1;
if adjwt1>9000;
run;
proc freq data=max1;
tables
stratum*AGE_num5*SVC_num*RANK_num*PATC_num*PCM_num*SEX_num*CHCS_num*PNLC_num*incat_num*TNEX_num*T
RS*adjwt1/list missing nocum nopercent;
proc freq data=max1;
S*adjwt1/list missing nocum nopercent;
run;
title "Proc Contents of ADJWT1:";
proc contents data=out.adjwt1;
******* The end *******;
```

F.9 Q3FY2013\Programs\Weighting\NewWeights\adjwt2.SAS - Form the weighting classes based on the answer trees then calculate the nonresponse adjusted weight - Run Quarterly.

```
*** Program: Adjwt2.sas
*** Task
        : 06663.200
*** Purpose: Calculate the nonresponse adjusted weight
*** Inputs: smplA2.sas7bdat, adjwt1.sas7bdat
*** Outputs: adjwt2.sas7bdat
********************
options ls=132 ps=79 compress=yes nocenter FORMCHAR=' | -+++++++++ formdlim='~';
%let quarter=Q3FY2013;
           "L:\&quarter.\Data\afinal"; /* smplA2.sas7bdat, adjwt1.sas7bdat */
libname in
libname out "L:\&quarter.\Data\afinal"; /* adjwt2.sas7bdat */
title1 "Program: adjwt2.sas (&quarter.)";
title2 "Purpose: Calculate the nonresponse adjusted weight";
*******************
Merge smplA2 with adjwt1 to get the variable adjwt1
**************************
proc sort data=in.smplA2 out=smplA2;
by MPRID;
run;
proc sort data=in.adjwt1(keep=MPRID adj1 adjwt1)
out=adiwt1;
by MPRID;
run;
data merged only1 only2 problem;
merge smplA2(in=A) adjwt1(in=B);
by MPRID;
if A and B then output merged;
else if A and NOT B then output only1;
else if B and NOT A then output only2;
else output problem;
run;
Since there is not much going on in 2nd stage, we decided not to do the modeling,
and instead to create the weight cells based on the A2 tree for the current quarter.
Pcell_A2=adjustment stage | region | cell index.
adjustment stage: 1-unknown eligbility adjustment stage, 2 - nonresponse adjustment stage
region: 1 - conus, 0-oconus
cell index: 01- #of terminal nodes
************************
data merged;
set merged;
length Pcell_A2 $4;
/*Based on Conus_A2_level3_AgeGRP5_tree.htm*/
/*O3FY2013*/
if conus='1' then do;
  if patc_grp in ('NADD') then do;
     if sex_grp='2' then pcell_a2='2101';
        else if sex_grp='1' then do;
             if age_grp5 in ('2','4','5') then pcell_a2='2102';
                else if age_grp5 in ('1','3') then pcell_a2='2103';
     end;
  else if patc_grp in ('DEPACT') then do;
       if in_catch = '0' then pcell_a2='2104';
       else if in_catch = '1' then do;
             if age_grp5 in ('2','3','4') then pcell_a2='2105';
                else if age_grp5='1' then pcell_a2='2106';
```

```
end;
   end;
   else if patc_grp in ('ACTDTY') then do;
        if rank_grp in ('W1230123', 'E1234') then pcell_a2='2107';
        else if rank_grp in ('W45045678910','E56789101112') then do;
            if pcm_grp in ('NON', 'CIV') then pcell_a2='2108';
            else if pcm_grp in ('MTF') then pcell_a2='2109';
      end;
    end;
end;
/*Q3FY2013*/
else if conus='0' then do;
     if age_grp5 in ('3','4','5') then do;
           if chcsaddr = '1' then do;
                  if patc_grp in ('NADD', 'DEPACT') then pcell_a2='2001';
                  else if patc_grp='ACTDTY' then pcell_a2='2002';
               end;
               else if chcsaddr = '0' then pcell_a2='2003';
     end;
        else if age_grp5 in ('2') then pcell_a2='2004';
     else if age_grp5 in ('1') then pcell_a2='2005';
end;
run;
title3 'Check the construction of weighting classes';
proc freq data=merged;
tables conus*Pcell_A2/missing list;
run;
/*O3FY2013*/
title3 'Check the Construction of Weighting Classes (CONUS)';
proc freq data=merged;
where conus='1';
tables pcell_a2*conus*patc_grp*sex_grp*age_grp5*in_catch*rank_grp*pcm_grp/missing list;
run;
/*O3FY2013*/
title3 'Check the Construction of Weighting Classes (OCONUS)';
proc freq data=merged;
where conus='0';
tables pcell_a2*age_grp5*chcsaddr*patc_grp/missing list;
run;
* Calculate nonresponse adjusted weight based on user-specified domains.
%MACRO PROCESS(DOMAIN2, INPT);
title3 "Freq of fnstatus";
proc freq data=&inpt.;
tables fnstatus/missing list;
proc sort data=&inpt.;
BY &domain2.;
run;
DATA CELLSA2 (KEEP= &domain2. NUMER DENOM numercnt denomcnt A2);
   set &inpt. ;
   BY &domain2.;
   IF FIRST. & domain 2. THEN DO;
      A2 = 0.0;
      NUMER = 0.0;
      DENOM = 0.0;
      numercnt = 0;
      denoment = 0;
   END;
   RETAIN NUMER DENOM A2 numercnt denoment;
   IF FNSTATUS IN (11,12,20) THEN
```

```
do;
         NUMER + adjwt1;
         numercnt + 1;
      end;
   IF FNSTATUS = 11 THEN
      do;
         DENOM + adjwt1;
         denoment + 1;
      end;
   IF LAST.&domain2. THEN DO;
      A2 = NUMER/DENOM;
      OUTPUT CELLSA2;
   END;
RUN;
title3 "Check for CELLSA2 Data Set";
title4 "Checks the Adjustment Ratio";
proc print data=cellsa2;
var &domain2. numercnt denoment numer denom a2;
sum numer denom numercnt denomcnt;
run;
title3 "Checks the Adjustment Ratio";
title4 "Print if ( a2 > 7 ) or ( denoment < 100 )";
proc print data=cellsa2;
where ( a2 > 7 ) or ( denoment < 100 );
var &domain2. numercnt denoment numer denom a2;
sum numer denom numercnt denomcnt;
run;
title3 "Proc Univarate of Adjustment Ratio (A2)";
proc univariate data=cellsa2 normal ;
var a2;
run;
proc sort data=cellsa2;
by &domain2.;
run;
data adjwt2;
merge &inpt. cellsa2;
by &domain2.;
if fnstatus = 11 then adj2 = a2;
   else adj2 = 0;
adjwt2 = adj2 * adjwt1;
label adjwt2 = "Nonrsponse adjusted weight";
KEEP MPRID fnstatus enbgsmpl adj1 adj2 adjwt1 &domain2. a2 adjwt2 ;
run;
title3 "Check for ADJWT2 Data Set";
title4 "Cross Freq of fnstatus and Adjustment Factor (adj2) with variaous Domains";
proc freq data=adjwt2;
table &domain2.*fnstatus*adj2 / list missing;
run;
proc means data=adjwt2 n sum NOPRINT;
class fnstatus;
var adjwt2;
output out=print sum=sum;
title3 "Printing proc means of Adjust2 by fnstatus";
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
proc means data=adjwt2 n sum NOPRINT;
class enbgsmpl;
var adjwt2;
output out=print sum=sum;
```

```
run;

title3 "Printing proc means of Adjust2 by enbgsmpl";
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;

data out.adjwt2;
set adjwt2;
run;
%MEND PROCESS;
%PROCESS(Pcell_A2, merged);

title3 "Proc Contents of Nonresponse Adjusted Weight (Adjwt2)";
proc contents data=out.adjwt2;
run;

******** The End **********;
```

F.10 Q3FY2013\Programs\Weighting\NewWeights\adjwtp.SAS - Assign the final adjusted weight for everybody in the sample file - Run Quarterly.

```
*******************
*** Program: adjwtp.sas
*** Task : 06663.200
*** Purpose: Assign the final adjusted weight for all sample cases
*** Inputs: Adjwt1.sas7bdat adjwt2.sas7bdat, selectq.sas7bdat, framea.sas7bdat
*** Outputs: Adjwtp.sas7bdat
options ls=132 ps=79 compress=yes nocenter FORMCHAR=' | -+++++++++ formdlim='~';
%let quarter=Q3FY2013;
libname inr
            "K:\&quarter.";
                                      * Extract.sas7bdat;
            "L:\&quarter.\Data\afinal"; * adjwt1.sas7bdat, adjwt2.sas7bdat;
"L:\&quarter.\Data\afinal"; * selectq.sas7bdat;
libname in
libname inv9
libname in_f "L:\&quarter.\Data\afinal"; * framea.sas7bdat;
            "L:\&quarter.\Data\afinal"; * adjwtp.sas7bdat;
libname out
title1 "Program: Adjwtp.sas (&quarter.)";
title2 "Purpose: Assign the final adjusted weight";
******************
* Sort the original data selectq.sd2
                     *******************************
proc sort data=inv9.selectq
    (keep=BWT COM_GEO D_HEALTH dageqy ENBGSMPL FNSTATUS MPCSMPL MPRID
        PATCAT PCM PNLCATCD PNSEXCD SERVAFF SEXSMPL STRATUM SVCSMPL WEB TNEXREG)
  out=selectq;
  format _all_;
  by mprid;
run;
* Sort the ADJWT1, ADJWT2, data set
************************
proc sort data=selectq;
by MPRID;
run;
PROC SORT DATA=in.adjwt1(keep=mprid pcell_a1 a1 adj1 adjwt1) out=adjwt1;
BY MPRID;
RUN;
PROC SORT DATA=in.adjwt2(keep=mprid pcell_a2 a2 adj2 adjwt2) out=adjwt2;
PROC SORT DATA=in.smplA1A2(keep=mprid conus tnex_grp chcsaddr /*fnstatus*/) out=smplA1A2;
BY MPRID;
RIIN;
************************
* Append final weight variable (adjwt)
    *************************
DATA out.adjwtp;
  MERGE selectq adjwt1 adjwt2 smplA1A2;
  BY MPRID;
  encounter=chcsaddr;
  drop chcsaddr;
*Assign a1, adj1, adjwt1 for fnstatus=32;
  if fnstatus = 32 then do;
    a1=1;
    adj1=1;
       adjwt1 = bwt*adj1;
      end;
```

```
*Assign a2, adj2, adjwt2 for fnstatus in (31, 32, 41, 42);
   if fnstatus in (31, 32, 41, 42) then do;
     if fnstatus in (31, 32) then do;
          a2=1;
          adj2=1;
        end;
        else if fnstatus in (41, 42) then do;
          adj2=0;
        end;
        adjwt2=adj2*adjwt1;
   end;
adjwt = adjwt2;
RUN;
title3 'Sum of Adjwt By Final Status';
proc means data=out.adjwtp n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;
run;
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;
title3 'Frame counts By enbgsmpl';
proc freq data=in_f.framea;
tables enbgsmpl/missing list;
run;
title3 'Sum of Adjwt By enbgsmpl';
proc means data=out.adjwtp n sum NOPRINT;
class enbgsmpl;
var adjwt;
output out=print sum=sum;
run;
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
title3 'Selectq using BWT as the weight';
title4 'Sum of BWT by Final Status';
proc means data=selectq n sum NOPRINT;
class fnstatus;
var bwt;
output out=print sum=sum;
run;
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;
title3 'Sum of BWT by enbgsmpl';
proc means data=selectq  n sum NOPRINT;
class enbgsmpl;
var bwt;
output out=print sum=sum;
run;
Proc print data=print noobs;
sum _freq_ sum;
where _type_=1;
run;
title3 'Checks for Adjwt Dataset';
```

```
proc sort data=out.adjwtp out=chk;
by pcell_a1 pcell_a2 fnstatus;
run;
data sub_chk;
set chk(keep = com_geo stratum pcell_a1 pcell_a2 fnstatus bwt adj1 adj2 adjwt);
by pcell_a1 pcell_a2 fnstatus;
prodadjs = adj1 * adj2;
retain cellcnt sumadjwt;
if first.fnstatus then
   do;
      cellcnt = 1;
      sumadjwt = adjwt;
   end;
   else
      do;
         cellcnt = cellcnt +1;
         sumadjwt = sumadjwt + adjwt;
      end;
if last.fnstatus then output sub_chk;
run;
proc print data=sub_chk noobs;
var pcell_a1 pcell_a2 fnstatus bwt adj1 adj2 prodadjs adjwt cellcnt sumadjwt;
sum cellcnt sumadjwt;
run;
proc freq data=sub_chk noprint;
tables prodadjs/missing list out=prodadjs;
run;
title3 "Univariate of Prodadjs = adj1 * adj2";
proc univariate data=prodadjs normal ;
var prodadjs;
run;
title3 "Univariate of Adjwt (fnstatus=11)";
proc univariate data=out.adjwtp normal ;
where fnstatus=11;
var adjwt;
title3 " Checking the individuals with the largest adjwt";
proc sort data=out.adjwtp out=sorted;
by descending adjwt;
run;
data sorted;
set sorted;
prodadjs=a1*a2;
run;
title3 "Proc Print: Checking the individuals with the largest adjwt (obs=200 descending)";
proc print data=sorted (obs=200);
var stratum pcell_al pcell_a2 BWT fnstatus al adjl adjwtl a2 adj2 adjwt prodadjs;
run;
data OUT.adjwtp;
set OUT.adjwtp;
drop al a2 ;
run;
*tnexreg;
proc sort data=out.adjwtp;
by tnexreg;
title3 "Distribution of weights by tnexreg";
proc means data=out.adjwtp noprint ;
where fnstatus=11;
var adjwt;
by tnexreg;
output out=out_tnex(drop=_type_ _freq_) n=n mean=mean std=stddev min=min max=max ;
```

```
run;
proc print data=out_tnex;
sum n;
run;

title3 "Contents of OUT.adjwtp";
proc contents data=out.adjwtp;
run;

************ The End ************;
```

F.11.A Q3FY2013\Programs\Weighting\NewWeights\postwt.SAS - Poststratify the weights - Run Quarterly.

```
***********************************
*** Program: postwt.sas
*** Task : 06663.200
*** Purpose: Do the poststratification to force weighted counts to population counts in certain
*** Inputs : framea.sas7bdat: the frame file
***
            adjwtp.sas7bdat: weighted survey data
***
*** Outputs: postwt.sas7bdat: final weight data after poststratification
*** Written: Haixia Xu on 12/27/2006
*** Note: 1) From Q1FY2011, we will create POSTCELL from Sampling 'Stratum'instead of
(Group | Comgeo)
          ie., Postcell=substr(Stratum,1,5)
                                           ******
*** Set up options. ***;
options ls=132 ps=79 compress=no nocenter obs=max;* obs=10;* mprint mlogic symbolgen;
%let quarter = Q3FY2013;
Title1 "Program: postwt.sas (&quarter.)";
Title2 "Purpose: Do the poststratification";
*** Set up the input and output paths. ***;
libname in "L:\&quarter.\Data\AFinal"; /* adjwtp.sas7bdat */
libname inv9 "L:\&quarter.\Data\AFinal"; /* framea.sas7bdat */
libname out "L:\&quarter.\Data\AFinal"; /* postwt.sas7bdat */
%include "L:\&quarter.\Programs\Weighting\NewWeights\calpoststr.sas";
%include "L:\&quarter.\Programs\Weighting\NewWeights\design_effects_unequal_weights.sas";
***Sample***;
data framea;
set inv9.framea;
length postcell $5;
postcell=substr(stratum,1,5); *Creating Postcell from Sampling Stratum;
******************
*Construct Necessary Variables:
**********************
***facility TNEX region***;
length TNEX_grp $1;
if d_health in ('00', '13', '14', '15') then TNEX_grp='0';
else if d_health in ('17', '01','05') then TNEX_grp='N'; else if d_health in ('18','04') then TNEX_grp='S'; else if d_health in ('19','08','11') then TNEX_grp='W';
*Correct the TNEX regions for com_geo 0047, 9001, 9002, 9003, 9004:
All the cases in the same com_geo should be in the same TNEX region, which is the region of the
com geo;
if COM_GEO = '0047' then TNEX_grp='S';
else if COM_GEO = '9001' then TNEX_grp='N';
else if COM_GEO = '9002' then TNEX_grp='S';
else if COM_GEO = '9003' then TNEX_grp='W';
else if COM_GEO = '9004' then TNEX_grp='0';
***CONUS region***;
length conus $1;
if TNEX_grp ='0' then conus='0';
else if TNEX_grp in ('N', 'S', 'W') then conus='1';
run;
Title3 "Checking the Construction of PostCell";
Title4 " Postcell=substr(stratum,1,5)";
proc freq data=framea;
tables stratum*Postcell/list missing;
proc sort data=framea;
```

```
by MPRID;
run;
proc sort data=in.adjwtp out=adjwt;
by MPRID;
run;
data adjwt;
merge adjwt(in=A) framea(in=B keep=mprid postcell group) ;
by MPRID;
if A and B;
run;
********************
*** Do the Poststratification
options compress=yes;
%calpoststr(smpldata=adjwt, frmedata=framea, domain=postcell, preadjwt=adjwt, psratio=ps,
postwt=postwt, outdata=OUT.postwt);
*** Compare the weighted counts and the population counts by the domains
options compress=no;
%macro comparecnt(smpldata=, frmedata=, domain=, weight=);
proc freq data=&smpldata. NOPRINT;
tables &domain./missing list out=weight_s(rename=(count=wtcnt) drop=percent);
weight &weight.;
run;
proc freq data=&frmedata. NOPRINT;
tables &domain./missing list out=unweight_f(rename=(count=popcnt) drop=percent);
run;
data cnt_sf;
merge weight_s(in=A) unweight_f(in=B);
by &domain.;
if a and not b and popent=. then popent=0;
if b and not a and wtcnt=. then wtcnt=0;
diff = wtcnt - popcnt;
*reldiff=diff/popcnt;
run;
proc print data=cnt_sf;
sum wtcnt popcnt diff;
run;
proc univariate data=cnt_sf;
var diff;
run;
%mend comparecnt;
title3 'Check to see if the poststratification is done correctly';
title4 'Compare the weighted count and the frame count by the different domains';
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=postcell, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=group, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=TNEX_grp, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=PCM, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=enbgsmpl,weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=patcat, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=stratum, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=com_geo, weight=postwt);
%comparecnt(smpldata=in.postwt, frmedata=framea, domain=servaff, weight=postwt);
*Domain=(TNEX_grp*PCM)
title3 'Check to see if the poststratification is done correctly';
title4 'Compare the weighted count and the frame count by (TNEX*PCM)';
proc freq data=in.postwt NOPRINT;
tables TNEX_grp*PCM/missing list out=weight_s(rename=(count=wtcnt) drop=percent);
```

```
weight postwt;
run;
proc freq data=framea NOPRINT;
tables TNEX_grp*PCM/missing list out=unweight_f(rename=(count=popent) drop=percent);
data cnt_sf;
merge weight_s(in=A) unweight_f(in=B);
by TNEX_grp PCM;
diff = wtcnt - popcnt;
*reldiff=diff/popcnt;
if A and B;
run;
proc print data=cnt_sf;
sum wtcnt popcnt diff ;
run;
proc univariate data=cnt_sf;
var diff ;
run;
*Domain=(TNEX_grp*PCM)
where Group=(1,2,3)
title3 'Check to see if the poststratification is done correctly';
title4 'Compare the weighted count and the frame count by (TNEX*PCM)';
title5 " where, Group = (1,2,3)";
proc freq data=in.postwt NOPRINT;
tables TNEX_grp*PCM/missing list out=weight_s(rename=(count=wtcnt) drop=percent);
weight postwt;
where group IN ('1','2','3');
run;
proc freq data=framea NOPRINT;
tables TNEX_grp*PCM/missing list out=unweight_f(rename=(count=popcnt) drop=percent);
where group IN ('1','2','3');
run;
data cnt_sf;
merge weight_s(in=A) unweight_f(in=B);
by TNEX_grp PCM;
diff = wtcnt - popcnt;
*reldiff=diff/popcnt;
if A and B;
proc print data=cnt_sf;
sum wtcnt popcnt diff;
proc univariate data=cnt_sf;
var diff ;
run;
*Domain=(TNEX_grp*servaff)
title3 'Check to see if the poststratification is done correctly';
title4 'Compare the weighted count and the frame count by (TNEX*servaff)';
proc freq data=in.postwt NOPRINT;
tables TNEX_grp*servaff/missing list out=weight_s(rename=(count=wtcnt) drop=percent);
weight postwt;
*where group IN ('1','2','3');
run;
proc freq data=framea NOPRINT;
tables TNEX_grp*servaff/missing list out=unweight_f(rename=(count=popcnt) drop=percent);
run;
data cnt_sf;
```

```
merge weight_s(in=A) unweight_f(in=B);
by TNEX_grp servaff;
diff = wtcnt - popcnt;
*reldiff=diff/popcnt;
if A and B;
proc print data=cnt_sf;
sum wtcnt popcnt diff ;
run;
proc univariate data=cnt_sf;
var diff ;
run;
************************
*** Compare the weighted sum before and after the poststratification
*************************
%macro procmeans(weightvar=, classvar=);
proc means data=OUT.postwt noprint;
class &classvar.;
var &weightvar.;
output out=out sum=/autoname;
run;
data print;
set out;
where _type_=1;
title3 "weighted info by &classvar. using &weightvar. as weight";
proc print data=print;
sum _freq_ bwt_sum adjwt1_sum adjwt2_sum adjwt_sum postwt_sum;
%mend procmeans;
%procmeans(weightvar= bwt adjwt1 adjwt2 adjwt postwt, classvar=fnstatus);
*%procmeans(weightvar= bwt adjwt1 adjwt2 adjwt postwt, classvar=stratum);
***********************
*** Output the datasets
options compress=yes;
data out.postwt;
set out.postwt(drop=adjwt );
label ENBGSMPL = 'ENBGSMPL - Beneficiary/Enrollment Status'
     PCM = 'Primary care Manager Code';
************************
*** Calculate the Design Effects
**create dataset of completes only;
data postwt_fnl;
set out.postwt;
where fnstatus=11;
%design_effects_unequal_weights ( postwt_fnl, postcell, postwt, deff_overall, deff_postcell );
%design_effects_unequal_weights ( postwt_fnl, com_geo, postwt, deff_overall, deff_cac );
%design_effects_unequal_weights ( postwt_fnl, enbgsmpl, postwt, deff_overall, deff_enb );
%design_effects_unequal_weights ( postwt_fnl, tnexreg, postwt, deff_overall, deff_tnexreg );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp, postwt, deff_overall, deff_tnexgrp );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp servaff, postwt, deff_overall,
deff_TNEXservaff );
```

```
title3 'Design Effects Overall';
proc print data = deff_overall;
run;
*** For postcell ***;
title3 "Design Effects for postcell";
proc print data= deff_postcell;
sum _freq_;
run;
*** For geographic Area ***;
title3 "Design Effects for com_geo";
proc print data= deff_cac;
sum _freq_;
run;
*** For ENBGSMPL Groups ***;
title3 'Design Effects for ENBGSMPL';
proc print data= deff_enb;
sum _freq_;
run;
*** For Beneficiary TNEX Region ***;
title3 'Design Effects for TNEXREG';
proc print data= deff_tnexreg;
sum _freq_;
run;
*** For Facility TNEX region ***;
title3 "Design Effects for Facility's TNEX region";
proc print data= deff_tnexgrp;
sum _freq_;
run;
*** For conus region ***;
title3 "Design Effects for conus";
proc print data= deff_conus;
sum _freq_;
run;
*** For Service Affiliation for the facility ***;
title3 "Design Effects for Facility's Service Affiliation";
proc print data= deff_servaff;
sum _freq_;
run;
*** For TNEX_grp*Servaff ***;
title3 "Design Effects for TNEX_grp by Servaff";
proc print data= deff_TNEXservaff;
sum _freq_;
run;
title3 "Contents of OUT.postwt";
proc contents data=OUT.postwt;
run;
******* The end *******;
```

F-185

F.11.B Q3FY2013\Programs\Weighting\NewWeights\calpoststr.SAS - Include file for postwt.sas.

```
*****************
* Macro to do the poststrification
                 *******************
%macro calpoststr(smpldata=, frmedata=, domain=, preadjwt=, psratio=, postwt=, outdata=);
proc freq data=&smpldata. NOPRINT;
where fnstatus in (11, 31, 32);
tables &domain./missing list out=unweight_s(rename=(count=unwtcnt) drop=percent);
run;
proc freq data=&smpldata. NOPRINT;
tables &domain./missing list out=weight_s(rename=(count=wtcnt) drop=percent);
weight &preadjwt.;
proc freq data=&frmedata. NOPRINT;
tables &domain./missing list out=unweight_f(rename=(count=popcnt) drop=percent);
run;
data cnt_sf out.only_f_calpoststr;
merge unweight_s(in=A) weight_s(in=B) unweight_f(in=C);
by &domain.;
if A and B and C then do;
 &psratio.=popent/wtent;
 label &psratio.="poststratification ratio";
 output cnt_sf;
end;
else if C and NOT A then output out.only_f_calpoststr;
*Sorting data with Poststratification Ratio by PS;
proc sort data=cnt_sf out=test;
by &psratio.;
run;
title3 "Check the calculation of poststratification ratio";
title4 "(sorted by PS)";
proc print data=test;
sum unwtcnt wtcnt popcnt;
title3 "Univariate of poststratification ratio";
proc univariate data=cnt_sf;
var &psratio.;
run;
title3 "Check the small cells or too small/large ratios - or (unwtcnt<15) or (&psratio. < 0.75)
or (&psratio. > 2)";
proc print data=cnt_sf;
where (&psratio. > 2) or (&psratio. < 0.75) or (unwtcnt <15);
*Append cnt_sf back to the adjusted weight data;
proc sort data=&smpldata.;
by &domain.;
run;
data &outdata.;
merge &smpldata. cnt_sf;
by &domain.;
run;
data &outdata.;
set &outdata.;
if fnstatus in (11, 31, 32) then &psratio.=&psratio.;
else if fnstatus in (12, 20, 41, 42) then &psratio.=0;
&postwt. = &preadjwt.*&psratio.;
title3 "check the calculation of final weight";
```

```
proc print data=&outdata.(obs=200);
var &domain. fnstatus &preadjwt. &psratio. &postwt.;
run;

title3 "Univariate of final weight";
proc univariate data=&outdata.;
var &postwt.;
where fnstatus=11;
run;
%mend calpoststr;
```

Name:

design_effects_unequal_weights

Purpose:

Calculate the design effects due to unequal weights. Creates two data sets. One data set contains the overall design effect and the information used to calculate the design effect. The other data set contains the design effects for each category of the analysis variable and the information used to calculate these design effects. In the two data sets, the additional information refers to the number of observations, the sum of the squared weights, and the sum of the weights squared.

Programmer:

Darryl V. Creel

Parameters:

There are five:

- (1) in_data_set The input data set.
- (2) analysis_variable The analysis variable contains the categories by which the design effects are calculated.
- (3) weight_variable The weight variable.
- (4) out_overall_data_set Name of the data set that contains the overall design effect.
- (5) out_data_set Name of the output data set that contains the design effects for each category of the analysis variable.

Output:

There are two data sets:

- (1) A data set that contains the overall design effect and the information used to calculte the overall design effect. It includes observations that have a missing value for the analysis variable. This data set is named by the out_overall_data_set parameter.
- (2) A data set that contains the design effects for each category of the analysis variable and the information used to calculate these design effects. There is one observation for each category of the analysis variable, including a missing category, if there are missing values for the analysis variable. This data set is named by the out_data_set parameter.

Side Effects:

None

Notes:

- (1) Use with SAS V8.
- (2) Do NOT use the following variable names as parameters:
 - (a) _weight_variables
 - (b) _overall_design_effect
 - (c) _design_effect.

```
%macro design_effects_unequal_weights
        ( in_data_set,
             analysis_variable,
             weight_variable,
             out_overall_data_set,
             out_data_set );
        data _weight_variables;
               set &in_data_set. ( keep = &analysis_variable. &weight_variable. );
                &weight_variable._sq = &weight_variable. * &weight_variable.;
        run;
        proc means data = _weight_variables missing noprint;
                var &weight_variable. &weight_variable._sq;
                output out = _overall_design_effect
                                   sum ( &weight_variable. &weight_variable._sq ) =
                                   sum_&weight_variable. sum_&weight_variable._sq;
       run;
        data &out_overall_data_set.;
                set _overall_design_effect ( drop = _type_ );
                {\tt design\_effect = ( \_freq\_ * sum\_\&weight\_variable.\_sq ) / ( sum\_\&weight\_variable. * less fine the sum\_\&weight\_variable for the sum \&weight\_variable for the su
sum_&weight_variable. );
        proc sort data = _weight_variables;
             by &analysis_variable.;
        run;
        proc means data = _weight_variables missing noprint;
               var &weight_variable. &weight_variable._sq;
               by &analysis_variable;
                output out = _design_effect
                                   sum ( &weight_variable. &weight_variable._sq ) =
                                    sum_&weight_variable. sum_&weight_variable._sq;
       run;
        data &out_data_set.;
                set _design_effect ( drop = _type_ );
               {\tt design\_effect = ( \_freq\_ * sum\_\&weight\_variable.\_sq ) / ( sum\_\&weight\_variable. * }
sum_&weight_variable. );
       run;
        proc datasets;
               delete _weight_variables _overall_design_effect _design_effect;
        run;
```

%mend design_effects_unequal_weights;

F.12 Q3FY2013\Programs\Weighting\NewWeights\repwtp_trimmed.SAS - Produce the replicate weights - Run Ouarterly.

```
*****************
* PROGRAM: Repwtp_Trimmed.sas
* TASK: DOD QUARTERLY HEALTH CARE SURVEY
* PURPOSE: CALCULATE REPLICATE WEIGHTS FOR DOD SURVEY
          USING THE NEW WEIGHTING METHOD.
* WRITTEN: 12/30/1999 BY Keith Ranthbun
 Modified 1) Haixia Xu on 12/27/2006
          2) H. Xu on 03/30/2007 for q3fy2007 weighting
* INPUTS : postwt.sas7bdat - Final Weights file
          framea_postwt.sas7bdat - The q3 frame file with
          corrected PCM and postcell defined
* OUTPUTS: repwtp.sas7bdat - Replicate Weights File
* Note : 1) Beginning in Q1FY2011, we create POSTCELL from Sampling Stratum
             Oldway: Postcell=(Group | Comgeo)
             Newway: Postcell=substr(Stratum,1,5)
          2) The order of trimming was switched in Q4Fy2011. See "trimming decision"
             note in L:\Q4FY2011\Programs\Weighting\NewWeights\checking
%let quarter=Q3FY2013;
LIBNAME INv6 "L:\&quarter.\Data\Afinal"; /* framea.sas7bdat */
             "L:\&quarter.\Data\Afinal"; /* postwt.sas7bdat */
LIBNAME IN
LIBNAME OUT "L:\&quarter.\Data\Afinal"; /* repwtp.sas7bdat */
OPTIONS PS=79 LS=132 errors=10 COMPRESS=no NOCENTER formdlim='~'/*mlogic mprint symbolgen*/;
title1 "Program: Repwtp_Trimmed.sas (&quarter.)";
title2 "Purpose: Create the Replicate Weights";
/*MACRO FOR TRIMMING */
%macro trimmer(domain,oldw,neww);
data trim;
set trim;
%if &neww.^= newtrim1 %then %do;
drop number means stdev sumweight cutoff toobig trimadj sumold sumnew;
%end;
run;
proc sort data=trim;
by &domain;
proc means data=trim n mean std sum noprint;
var &oldw;
by &domain;
where fnstatus=11;
output out=meanspostwt n=number mean=means std=stdev sum=sumweight;
run;
data trim;
merge trim meanspostwt;
by &domain;
cutoff=means+stdev*6;
toobig=.;
trimadj=.;
if &oldw>cutoff and fnstatus=11 then toobig=1;
if toobig=1 then &neww=cutoff;
if cutoff=. and toobig=1 then &neww=&oldw;
if toobig=. then &neww=&oldw;
run;
proc means data=trim sum noprint;
var &oldw &neww;
by &domain;
```

```
where fnstatus=11;
output out=meansbig sum=sumold sumnew;
run;
data trim;
merge trim meansbig;
by &domain;
run;
data trim;
set trim;
/*cutoff~=. filter guards against divide by zero error if there is only 1 obs in domain */
if cutoff~=. then trimadj=sumold/sumnew;
if trimadj=. or fnstatus~=11 then trimadj=1;
&neww=trimadj*&neww;
run;
proc means data=trim sum noprint;
var &oldw &neww;
by &domain;
where fnstatus=11;
output out=sumcheck sum=old new;
run;
data sumcheck;
set sumcheck;
diff=new-old;
proc means data=sumcheck;
var diff;
run;
proc print data=sumcheck;
var &domain old new;
run;
proc freq data=trim;
table &oldw*&neww*toobig*stratum/list missing;
where &oldw>4000;
run;
proc freq data=trim;
table toobig*&oldw*&neww*stratum /list missing;
where toobig=1;
run;
%mend trimmer;
%MACRO PROCESS(DOMAIN1,DOMAIN2,DOMAIN3,reps);
* calculate the population counts to be used in the poststratification
data framea;
set inv6.framea;
length POSTCELL $5;
postcell=substr(stratum,1,5); *Creating Postcell from Sampling Stratum;
run;
proc freq data=framea NOPRINT;
tables &domain3./missing list out=framecnt(drop=percent rename=(count=popcnt));
********************
* Sort the final weights file by user-specified domains
************************
PROC SORT DATA=IN.postwt_trimmed OUT=postwt;
    BY stratum MPRID ;
RIIN;
```

```
* Append SUBSET index (I) to each observation
************************
DATA SUBSETS;
  SET postwt;
  BY stratum MPRID;
  IF N_ = 1 OR MOD(N_ - 1, &reps.) = 0 THEN SUBSET = 1;
  ELSE SUBSET + 1;
  RETAIN SUBSET;
  BBWT = BWT * (&reps. / (&reps. - 1));
******************
*********************
* Generate JackKnife/replicated weights adjwt01-adjwt60
%DO I = 1 %TO &reps.;
DATA SUBSET;
 SET SUBSETS;
  IF &I. = SUBSET THEN DELETE; *Remove the current subset;
* Calculate adjustment factor Al for each cell
*****************************
proc sort data=subset;
by &domain1.;
run;
******************
* Calculate adjustment factor A1 for each cell.
* This is the Eligibility Determination adjustment.
***************************
DATA CELLSA1 (KEEP=SUMBBWT SUMG1-SUMG3 A1 CELLCNT cntg1-cntg3 &domain1. stratum com_geo enbgsmpl
   MPRIDSA1 (KEEP=MPRID FNSTATUS BBWT &DOMAIN1. &DOMAIN2. &domain3. stratum com_geo enbgsmpl
patcat)
  ;
  SET subset;
  BY &DOMAIN1.;
if FNSTATUS in (11, 12, 20, 31, 41, 42) THEN DO;
  IF FIRST.&DOMAIN1. THEN DO;
    CELLCNT = 0;
    cntg1 = 0;
         = 0;
= 0;
    cntg2
    cntq3
    SUMBBWT = 0.0;
    SUMG1 = 0.0;
SUMG2 = 0.0;
    SUMG3 = 0.0;
    A1 = 0.0;
  END;
  CELLCNT + 1;
  ***************
  * Accumulate total weight sum
  SUMBBWT + BBWT;
  ***************
  * Accumulate group 1 weight sum
  ****************
  IF FNSTATUS IN (11,12) THEN
    do;
```

```
SUMG1 + BBWT;
       cntg1 + 1;
     end;
  ***************
  * Accumulate group 2 weight sum
  ELSE IF FNSTATUS in (20,31) THEN
       SUMG2 + BBWT;
       cntg2 + 1;
  ************
  * Accumulate group 3 weight sum
  *****************
  ELSE IF FNSTATUS in (41,42) THEN
       SUMG3 + BBWT;
       cntg3 + 1;
     end;
  RETAIN SUMBBWT SUMG1-SUMG3 A1 CELLCNT cntg1-cntg3 MPRID;
  IF LAST.&DOMAIN1. THEN DO;
     A1 = (SUMG1 + SUMG2 + SUMG3)/(SUMG1 + SUMG2);
     OUTPUT CELLSA1;
  END;
END;
  OUTPUT MPRIDSA1;
RUN;
proc sort data=mpridsal;
by &domain1.;
run;
proc sort data=cellsal;
by &domain1.;
run;
data adj_one;
merge mpridsal cellsal;
by &domain1.;
if fnstatus in (11,12,20,31) then adj1 = a1;
  else if fnstatus = 32 then adj1=1;
  else adj1 = 0;
adj_wt1 = adj1 * bbwt;
run;
* Calculate adjustment factor A2 for each cell.
* This is the Nonresponse adjustment and creates the final weight (adjwt).
proc sort data=adj_one;
by &domain2.;
run;
DATA CELLSA2 (KEEP= &domain2. NUMER DENOM numercnt denomcnt A2);
  set adj_one;
  BY &domain2.;
IF FNSTATUS in (11, 12, 20) THEN DO;
  IF FIRST.&domain2. THEN DO;
     A2 = 0.0;
     NUMER = 0.0;
     DENOM = 0.0;
     numercnt = 0;
     denoment = 0;
```

```
END;
   RETAIN NUMER DENOM A2 numercnt denoment;
   IF FNSTATUS IN (11,12,20) THEN
     do;
        NUMER + adj_wt1;
        numercnt + 1;
      end;
  IF FNSTATUS = 11 THEN
        DENOM + adj_wt1;
        denoment + 1;
      end;
   IF LAST. &domain 2. THEN DO;
     A2 = NUMER/DENOM;
     OUTPUT CELLSA2;
   END;
END;
RUN;
proc sort data=adj_one;
by &domain2.;
run;
proc sort data=cellsa2;
by &domain2.;
run;
data adj_two;
merge adj_one cellsa2;
by &domain2.;
if fnstatus = 11 then adj2 = a2;
  else if fnstatus in (31, 32) then adj2 = 1;
  else adj2 = 0;
adj_wt2 = adj2 * adj_wt1;
*KEEP MPRID FNSTATUS adj_wt2 bbwt &DOMAIN1. &DOMAIN2. &domain3.;
run;
************************
* Calculate poststratification adjustment factor ps for each cell.
proc freq data=adj_two NOPRINT;
tables &domain3./missing list out=weighted(drop=percent rename=(count=wtcnt));
weight adj_wt2;
run;
proc sort data=framecnt;
by &domain3.;
run;
proc sort data=weighted;
by &domain3.;
run;
data ps;
merge framecnt(in=A) weighted(in=B);
by &domain3.;
ps = popcnt/wtcnt;
if A and B;
run;
proc sort data=ps;
by &domain3.;
run;
proc sort data=adj_two;
by &domain3.;
run;
```

```
data subset&i.;
merge adj_two ps;
by &domain3.;
jkweight = ps * adj_wt2;
subset = &i.;
*KEEP MPRID subset jkweight;
proc sort data=subset&i.;
by mprid;
run;
/* TRIMMING */
data trim;
set subset&i.;
run;
*For Q3FY2013: we trim once by PATCAT:
%trimmer(patcat,jkweight,newtrim3);
*********
Update Trimwt=. :
For Q3FY2013 : Trimwt=newtrim3 :
************************
data trim;
set trim;
trimwt=newtrim3; *Q3FY2013: PATCAT;
*********
POSTSTRATIFY THE TRIMMED WEIGHTS
************
proc freq data=trim NOPRINT;
tables &domain3./missing list out=weighted(drop=percent rename=(count=wtcnt));
weight trimwt;
run;
proc sort data=framecnt;
by &domain3.;
run;
proc sort data=weighted;
by &domain3.;
run;
data ps;
merge framecnt(in=A) weighted(in=B);
by &domain3.;
ps2 = popcnt/wtcnt;
if A and B;
run;
proc sort data=ps;
by &domain3.;
run;
proc sort data=trim;
by &domain3.;
run;
data subset&i.;
merge trim ps;
by &domain3.;
jkweight2 = ps2 * trimwt;
subset = &i.;
*KEEP MPRID subset jkweight2;
run;
```

```
proc sort data=subset&i.;
by mprid;
run;
proc means data=subset&i.;
var jkweight2;
*******************
******************
* End of JackKnife/replicated weights WRWT01-WRWT60 assignments
*******************
*************************
* Combine all of the JackKnife weight subsets by MPRID
************************
DATA ALLSETS;
  SET SUBSET1 SUBSET2 SUBSET3 SUBSET4 SUBSET5
      SUBSET6 SUBSET7 SUBSET8 SUBSET9
      SUBSET11 SUBSET12 SUBSET13 SUBSET14 SUBSET15
SUBSET16 SUBSET17 SUBSET18 SUBSET19 SUBSET20
      SUBSET21 SUBSET22 SUBSET23 SUBSET24 SUBSET25
      SUBSET26 SUBSET27 SUBSET28 SUBSET29 SUBSET30
      SUBSET31 SUBSET32 SUBSET33 SUBSET34 SUBSET35
SUBSET36 SUBSET37 SUBSET38 SUBSET39 SUBSET40
      SUBSET41 SUBSET42 SUBSET43 SUBSET44 SUBSET45
     SUBSET46 SUBSET47 SUBSET48 SUBSET49 SUBSET50 SUBSET51 SUBSET52 SUBSET53 SUBSET54 SUBSET55 SUBSET56 SUBSET57 SUBSET58 SUBSET59 SUBSET60
      BY MPRID;
      ARRAY JKWT(&reps.) wrwt1-wrwt&reps.; RETAIN wrwt1-wrwt&reps.;
      IF FIRST.MPRID THEN DO;
      DO I = 1 TO &reps.; DROP I;
        JKWT(I) = . ;
     END;
END;
  JKWT(SUBSET) = JKWEIGHT2;
  IF LAST.MPRID THEN OUTPUT;
  KEEP MPRID SUBSET wrwt1-wrwt&reps.;
RUN;
************************
* Sort the original data, get the final weight (WRWT), append the
* JackKnife/Replicated weights (WRWT1-WRWT60), and label variables.
PROC SORT DATA=IN.postwt_trimmed OUT=trimwt;
BY MPRID;
RUN;
proc sort data=allsets;
by mprid;
run;
options compress=yes;
******
OUTPUT FINAL DATA:
********
DATA OUT.repwtp ;
  MERGE trimwt ALLSETS;
  BY MPRID;
  LABEL
     MPRID = 'MPR ID Number'
     WRWT1 = 'Replicated/JackKnife Weight 1'
     WRWT2 = 'Replicated/JackKnife Weight 2'
     WRWT3 = 'Replicated/JackKnife Weight 3'
     WRWT4 = 'Replicated/JackKnife Weight 4'
```

```
WRWT5 = 'Replicated/JackKnife Weight 5'
      WRWT6 = 'Replicated/JackKnife Weight 6'
     WRWT7 = 'Replicated/JackKnife Weight 7'
     WRWT8 = 'Replicated/JackKnife Weight 8'
     WRWT9 = 'Replicated/JackKnife Weight 9'
     WRWT10 = 'Replicated/JackKnife Weight 10'
     WRWT11 = 'Replicated/JackKnife Weight 11'
     WRWT12 = 'Replicated/JackKnife Weight 12'
     WRWT13 = 'Replicated/JackKnife Weight 13'
     WRWT14 = 'Replicated/JackKnife Weight 14'
     WRWT15 = 'Replicated/JackKnife Weight 15'
     WRWT16 = 'Replicated/JackKnife Weight 16'
     WRWT17 = 'Replicated/JackKnife Weight 17'
     WRWT18 = 'Replicated/JackKnife Weight 18'
     WRWT19 = 'Replicated/JackKnife Weight 19'
     WRWT20 = 'Replicated/JackKnife Weight 20'
     WRWT21 = 'Replicated/JackKnife Weight 21'
     WRWT22 = 'Replicated/JackKnife Weight 22'
     WRWT23 = 'Replicated/JackKnife Weight 23'
     WRWT24 = 'Replicated/JackKnife Weight 24'
     WRWT25 = 'Replicated/JackKnife Weight 25'
     WRWT26 = 'Replicated/JackKnife Weight 26'
     WRWT27 = 'Replicated/JackKnife Weight 27'
     WRWT28 = 'Replicated/JackKnife Weight 28'
     WRWT29 = 'Replicated/JackKnife Weight 29'
     WRWT30 = 'Replicated/JackKnife Weight 30'
     WRWT31 = 'Replicated/JackKnife Weight 31'
     WRWT32 = 'Replicated/JackKnife Weight 32'
     WRWT33 = 'Replicated/JackKnife Weight 33'
     WRWT34 = 'Replicated/JackKnife Weight 34'
     WRWT35 = 'Replicated/JackKnife Weight 35'
     WRWT36 = 'Replicated/JackKnife Weight 36'
     WRWT37 = 'Replicated/JackKnife Weight 37'
     WRWT38 = 'Replicated/JackKnife Weight 38'
     WRWT39 = 'Replicated/JackKnife Weight 39'
     WRWT40 = 'Replicated/JackKnife Weight 40'
     WRWT41 = 'Replicated/JackKnife Weight 41'
     WRWT42 = 'Replicated/JackKnife Weight 42'
     WRWT43 = 'Replicated/JackKnife Weight 43'
     WRWT44 = 'Replicated/JackKnife Weight 44'
     WRWT45 = 'Replicated/JackKnife Weight 45'
     WRWT46 = 'Replicated/JackKnife Weight 46'
     WRWT47 = 'Replicated/JackKnife Weight 47'
     WRWT48 = 'Replicated/JackKnife Weight 48'
     WRWT49 = 'Replicated/JackKnife Weight 49'
     WRWT50 = 'Replicated/JackKnife Weight 50'
     WRWT51 = 'Replicated/JackKnife Weight 51'
     WRWT52 = 'Replicated/JackKnife Weight 52'
     WRWT53 = 'Replicated/JackKnife Weight 53'
     WRWT54 = 'Replicated/JackKnife Weight 54'
     WRWT55 = 'Replicated/JackKnife Weight 55'
     WRWT56 = 'Replicated/JackKnife Weight 56'
     WRWT57 = 'Replicated/JackKnife Weight 57'
     WRWT58 = 'Replicated/JackKnife Weight 58'
     WRWT59 = 'Replicated/JackKnife Weight 59'
     WRWT60 = 'Replicated/JackKnife Weight 60'
RUN;
TITLE1 "2011 DoD Quarterly Health Survey Final/Replicated Weights";
title2 "Checks for the Replicate Weights";
TITLE3 "Program Name: Repwtp_Trimmed.sas";
Check the structure of the data set OUT.repwtp;
******************
proc sort data=OUT.repwtp out=sorted;
by stratum mprid;
run;
proc print data=sorted (obs=500);
var stratum mprid SUBSET fnstatus postwt trimwt postwt2 wrwt1-wrwt5;
```

```
run;
PROC MEANS DATA=OUT.repwtp n sum;
VAR postwt trimwt postwt2 WRWT1-WRWT&reps.;
RUN;
PROC SORT DATA=OUT.repwtp out=repwtp;
BY MPRID;
RUN;
DATA OUT.repwtp;
   SET repwtp;
   BY MPRID;
   ARRAY WGTS(&reps.) WRWT1-WRWT&reps.;
   DO I = 1 TO &reps.; DROP I;
     IF WGTS(I) EQ . THEN WGTS(I) = 0;
   KEEP MPRID BWT postwt trimwt postwt2 WRWT1-WRWT&reps. fnstatus &domain1.
        &domain2. &domain3. com_geo web encounter;
RUN;
title4 "Check the replicate weights -- for all 51,000 cases";
PROC MEANS DATA=OUT.repwtp n sum;
VAR postwt trimwt postwt2 wrwt1-wrwt&reps.;
output out=sums sum(postwt trimwt postwt2 wrwt1-wrwt&reps.)=postwt trimwt postwt2 wrwt1-
wrwt&reps.;
RUN;
proc transpose data=sums out=t_sums;
var postwt trimwt postwt2 wrwt1-wrwt&reps.;
run;
proc univariate data=t_sums normal ;
var col1;
run;
title4 "Check the replicate weights -- for the final completes";
PROC MEANS DATA=OUT.repwtp n sum;
where fnstatus=11;
VAR postwt trimwt postwt2 wrwt1-wrwt&reps.;
output out=sums sum(postwt trimwt postwt2 wrwt1-wrwt&reps.)=postwt trimwt postwt2 wrwt1-
wrwt&reps.;
RUN;
proc transpose data=sums out=t_sums;
var postwt trimwt postwt2 wrwt1-wrwt&reps.;
run;
proc univariate data=t_sums normal ;
var col1;
run;
**added for Amang q4 2002;
data repwt2;
  set out.repwtp;
  where fnstatus = 11;
  array subset2(60) wrwt1-wrwt60;
  do m=1 to 60;
    if subset2(m)=0 then
           subset=m;
 end;
run;
proc sort data = repwt2;
by subset;
run;
proc means data = repwt2 noprint;
by subset;
var postwt2 wrwt1-wrwt60;
```

```
output out = amang sum= / autoname;
run;
***added by Haixia on 05/11/2005 for q1, 2005 weighting.
rename wrwt1_sum, ..., wrwt60_sum as sum_wrwt1, ..., sum_wrwt60
so the numbered range list sum_wrwt1 - sum_wrwt60 can be used in the proc print below;
data amang;
set amang;
rename postwt2_sum = sum_postwt2;
%do i =1 %to 60;
rename wrwt&i._sum = sum_wrwt&i.;
%end;
run;
proc print data = amang;
sum _freq_ sum_postwt2  sum_wrwt1 - sum_wrwt60;
run;
*******************
* CREATE FINAL REPWT DATASET FOR KEITH -- Rename the variables
*****************
data out.repwtp (drop = postwt postwt2 com_geo trimwt encounter web);
set in.repwtp;
fwrwt = postwt2;
%do i =1 %to 60;
rename wrwt&i.= fwrwt&i.;
%end;
label &domain1. = 'Weighting cell in the unknown eligibility adjustment';
label &domain2. = 'Weighting cell in the nonresponse adjustment';
label &domain3. = "ps cell for new wts - for all 4 quarters";
label fwrwt = "Final NEW Weight";
run;
data out.repwtp;
set out.repwtp;
* Label wts;
   %DO I = 1 %TO 60;
       LABEL FWRWT&I. = "Replicated/JackKnife NEW Weight &I.";
   %END;
run;
PROC CONTENTS DATA=OUT.repwtp;
run;
%MEND process;
%PROCESS(pcell_a1, pcell_a2, postcell, 60);
******
```

F.13 Q3FY2013\Programs\WEIGHTING\ADDWGTSA.SAS - Merge the final quarterly weights with the final questionnaire/sample file - Run Quarterly.

```
* PROGRAM: ADDWGTSA.SAS
* TASK:
          DOD HEALTH CARE SURVEY ANALYSIS (6401-903)
* PURPOSE: MERGE THE FINAL WEIGHTS FILE WITH THE FINAL
          QUESTIONNAIRE/SAMPLE FILE
* WRITTEN: 02/02/2001 BY KEITH RATHBUN
* INPUTS:
          1) REPWTP.sas7bdat - Final/Replicated Weights file - FORM A
          2) MERGEQ.sas7bdat - Final FORM A Questionnaire/Sample File
 OUTPUTS: 1) HCSyyq_n.sas7bdat - Final FORM A Questionnaire/Sample File
             combined with Final/Replicated Weights file - FORM A
             where yy = Year
                    q = Quarter Number
                    n = Final Dataset Suffix/Version Number
          2) HCSyyq_v.XPT - Final Public-Use Adult SAS XPORT Dataset
 MODIFIED: 1) 4/23/2002 - DKB added DROP statement to drop the permanent
             random number variable (PRN) that does not need to be on the
             final data file sent to DoD
          2) 4/17/2003 - JA added length statement to order variables from
             weight file. The variable TREATU_R is positioned after the
             replicate weights.
          3) 2/17/2005 - JA dropped CACSMPL from repwt because it has been
             added to mergeq.sd2 in the mergeq.sas program. This is because
             in Q4, CACSMPL had to be updated for reporting purposes.
          4) 5/13/2005 - JA kept only necessary variables from the weight
             weight file.
          5) 12/27/2005 - JA merged new/adjusted weights and old weights
          6) 5/22/2006 - JA added xcatch to the dataset
          7) 1/17/2008 - Keith Rathbun added creation of DTA, SAV and
             XPT versions of the final dataset.
          8) 2/9/2010 - JA added creation of private use file
          9) 10/12/2010 - MER drop ENRID from public-use data set
         10) 11/16/2010 - MER add MSA_ID to private-use file 11) 12/09/2011 - MER removed Lackland fix
* Define global parameters.
                       **************
%LET DSN1 = HCS133_1; * Public-Use data set;
%LET DSN2 = HCS133_2; * Private-Use data set;
%LET DSNw = REPWTP; * Final and replicate weight file;
%LET QTR = Q3FY2013; * Current Quarters data folder name;
******************
* Define libraries and options.
LIBNAME IN1 "..\..\DATA\AFINAL";
LIBNAME IN2 "K:\&QTR";
LIBNAME OUT "...\DATA\AFINAL";
                                        * Location of restricted-use sample file;
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER MPRINT MLOGIC;
* Merge the final weights file with the final Questionnaire/Sample file
*******************
PROC SORT DATA=IN1.&DSNw OUT=&DSNw; BY MPRID; RUN;
PROC SORT DATA=IN1.MERGEQ OUT=MERGEQ; BY MPRID; RUN;
PROC CONTENTS DATA=IN1.&DSNw; Title 'repwtp- New weights'; RUN;
PROC CONTENTS DATA=IN1.MERGEQ; Title 'mergeq'; RUN;
*******************
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TMPXCTCH with XCATCH is created by this include file.
```

```
*************************
DATA TEMP1;
  SET MERGEQ;
  IF FNSTATUS = 11;
RUN;
%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;
PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;
DATA OUT.&DSN1(DROP=PRN
                         DMIS_ID D_PAR
                                           ENRID
                                         MSM
                  CACSMPL SERVAREA DCATCH
                  D_FAC DAGEQY
                                 FIELDAGE PNLCATCD
                  DMEDELG MEDTYPE MBRRELCD MRTLSTAT)
      T_&DSN2(DROP=PRN DMIS_ID D_PAR )
  MERGE MERGEQ(IN=IN2 DROP=MIQCNTL COM_GEO)
        TMPXCTCH(IN=IN3)
        &DSNw(IN=IN1 KEEP=MPRID POSTCELL FWRWT FWRWT1--FWRWT60
                    RENAME=(fwrwt=FWRWT postcell=POSTCELL
                            fwrwt1=FWRWT1 fwrwt2=FWRWT2 fwrwt3=FWRWT3 fwrwt4=FWRWT4
fwrwt5=FWRWT5
                            fwrwt6=FWRWT6 fwrwt7=FWRWT7 fwrwt8=FWRWT8 fwrwt9=FWRWT9
fwrwt10=FWRWT10
                            fwrwt11=FWRWT11 fwrwt12=FWRWT12 fwrwt13=FWRWT13 fwrwt14=FWRWT14
fwrwt15=FWRWT15
                            fwrwt16=FWRWT16 fwrwt17=FWRWT17 fwrwt18=FWRWT18 fwrwt19=FWRWT19
fwrwt20=FWRWT20
                            fwrwt21=FWRWT21 fwrwt22=FWRWT22 fwrwt23=FWRWT23 fwrwt24=FWRWT24
fwrwt25=FWRWT25
                            fwrwt26=FWRWT26 fwrwt27=FWRWT27 fwrwt28=FWRWT28 fwrwt29=FWRWT29
fwrwt30=FWRWT30
                            fwrwt31=FWRWT31 fwrwt32=FWRWT32 fwrwt33=FWRWT33 fwrwt34=FWRWT34
fwrwt35=FWRWT35
                            fwrwt36=FWRWT36 fwrwt37=FWRWT37 fwrwt38=FWRWT38 fwrwt39=FWRWT39
fwrwt40=FWRWT40
                            fwrwt41=FWRWT41 fwrwt42=FWRWT42 fwrwt43=FWRWT43 fwrwt44=FWRWT44
fwrwt45=FWRWT45
                            fwrwt46=FWRWT46 fwrwt47=FWRWT47 fwrwt48=FWRWT48 fwrwt49=FWRWT49
fwrwt50=FWRWT50
                            fwrwt51=FWRWT51 fwrwt52=FWRWT52 fwrwt53=FWRWT53 fwrwt54=FWRWT54
fwrwt55=FWRWT55
                            fwrwt56=FWRWT56 fwrwt57=FWRWT57 fwrwt58=FWRWT58 fwrwt59=FWRWT59
fwrwt.60=FWRWT60
               ));
  BY MPRID;
  IF FNSTATUS = 11;
  IF NOT (IN1 AND IN2)
  THEN PUT "ERROR: NO MATCHING MPRID WITH MERGEO..sas7bdat AND &DSNw..sas7bdat";
  IF IN1 AND IN2 AND IN3;
  FORMAT XCATCH CACR.
RIIN;
************************
* Extract private-use variables from quarterly sample file.
*************************
DATA SAMPLA02;
  SET IN2.SAMPLA02
      (KEEP=MPRID MASTCD MAPRZIP MAPRZIPX PNBRTHDT PGCD RANKCD MSA_ID);
PROC SORT DATA=SAMPLA02; BY MPRID; RUN;
* Append private-use variables to the public-use file.
DATA OUT.&DSN2;
```

```
MERGE T_&DSN2(IN=IN1) SAMPLA02(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2; *KEEP only eligible respondents;
RUN;
TITLE1 "DOD Quarterly Health Care Survey (6663-300)";
TITLE2 "Program Name: ADDWGTSA.SAS";
TITLE3 "Program Inputs: Mergeq.sas7bdat -- &DSNw..sas7bdat";
TITLE4 "Program Outputs: &DSN1..sas7bdat/XPT";
PROC CONTENTS DATA=OUT.&DSN1; RUN;
*************************
^{\star} Output the restricted use CONTENTS text file for delivery with the
*******************************
PROC PRINTTO PRINT="&DSN2..TXT" NEW; RUN;
OPTIONS PAGENO=1;
TITLE4 "Program Outputs: &DSN2..sas7bdat/XPT";
PROC CONTENTS DATA=OUT.&DSN2; RUN;
******************
* Define and generate SAS Transport file.
************************
LIBNAME XFILE1 XPORT "..\..\data\afinal\&DSN1..XPT";
PROC COPY IN=OUT OUT=XFILE1; * Converts input file to transport file;
       SELECT &DSN1;
                      * Selects sas7bdat file to copy;
RUN;
LIBNAME XFILE2 XPORT "..\..\data\afinal\&DSN2..XPT";
PROC COPY IN=OUT OUT=XFILE2; * Converts input file to transport file;
                     * Selects sas7bdat file to copy;
       SELECT &DSN2;
RIIN;
*****************
^{\star} Note that SPSS and STATA exports are not being created here because
* proc export does not support the library/formatted file option needed
* for delivery. The code below is kept just in case this option is
* supported at a later time.
         **************************
ENDSAS;
*******************
* Generate Dataset in STATA format.
**************************
PROC EXPORT
  DATA = OUT.&DSN1
  OUTFILE = "..\..\DATA\AFINAL\&DSN1..DTA"
  DBMS = DTA
  REPLACE;
RUN;
PROC EXPORT
  DATA = OUT.&DSN2
  OUTFILE = "..\..\DATA\AFINAL\&DSN2..DTA"
  DBMS = DTA
  REPLACE;
RIIN;
******************
* Generate Dataset in SPSS format.
************************
PROC EXPORT
  DATA = OUT.&DSN1
  OUTFILE = "..\..\DATA\AFINAL\&DSN1..SAV"
  DBMS = SAV
  REPLACE;
RUN;
PROC EXPORT
  DATA = OUT.&DSN2
  OUTFILE = "..\..\DATA\AFINAL\&DSN2..SAV"
```

REPLACE; RUN;

F.14 WEIGHTING\COMB2013.SAS - Combine quarterly datasets into one annual file - Annual.

```
******************
  PROGRAM: COMB2013.SAS
  TASK: ANNUAL DOD HEALTH CARE SURVEY ANALYSIS (6244-300)
  PURPOSE: Combine quarterly datasets into one annual file.
  WRITTEN: 12/23/2002 BY KEITH RATHBUN.
   INPUTS: 1) HCSyyq_2.sas7bdat - Q1-Q4 DOD HCS Analysis files
                 Where yy = Year (11)
                        q = Quarter Number (1-4)
  MODIFIED: 1) September 17, 2009 by Emma Ernst for 2009 database
            2) October 12, 2010 by Mike Rudacille for 2010 database
              Switched from HCSyyq_1 to HCSyyq_2, as some of the necessary variables
              are now only available in the restricted use dataset
            3) September 23, 2011 by Mike Rudacille for 2011 database
            4) September 20, 2012 by Amanda Kudis for 2012 database
            5) July 24, 2013 by Amanda Kudis for 2013 datasets
   OUTPUT: 1) COMB2013.sas7bdat - Combined quarterly datasets in one annual file
    NOTES: 1) The output dataset produced by this program contains all
              of the original quarterly responses plus additional
              responses that "trickled" in after the end of the
              fielding period. The variable called QUARTER can be used
              to identify which version of the quarterly survey is
              applicable to the respondent.
  INCLUDES: 1) XCATCH.INC - Create catchment reporting variable
******************
* Assign data libraries and options
LIBNAME INQ1
              "..\..\Q1FY2013t\DATA\AFINAL";
LIBNAME INQ2
                "..\..\.\Q2FY2013t\DATA\AFINAL";
             "..\..\Q3FY2013\DATA\AFINAL"; *AMK NO TRICKLE FOR 2013;
"..\..\..\Q4FY2012\DATA\AFINAL"; /***AMK NO Q4 FOR 2013; JMA 11/17/2011 -
LIBNAME INQ3
*LIBNAME INQ4
Unlike other years, In 2011, we used trickle Q4 data ***/
LIBNAME OUT
               "..\..\DATA";
LIBNAME LIBRARY "..\..\Data\fmtlib";
OPTIONS COMPRESS=YES LS=132 PS=79 NOCENTER NOFMTERR;
*****************
* Extract variable names for each quarter for overlap checking purposes.
PROC CONTENTS DATA=INQ1.HCS131_2 OUT=Q1(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;
PROC CONTENTS DATA=INQ2.HCS132_2 OUT=Q2(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;
PROC CONTENTS DATA=INQ3.HCS133_2 OUT=Q3(KEEP=NAME) NOPRINT; RUN;
PROC SORT; BY NAME; RUN;
/*PROC CONTENTS DATA=INQ4.HCS134_2 OUT=Q4(KEEP=NAME) NOPRINT; RUN; *AMK NO Q4 FOR 2013;
PROC SORT; BY NAME; RUN; */
DATA VARIABLES;
  MERGE Q1(IN=INQ1) Q2(IN=INQ2) Q3(IN=INQ3) /*Q4(IN=INQ4)*/;*AMK NO Q4 FOR 2013;
  LENGTH Q1-Q3 $3; *AMK NO Q4 FOR 2013;
  IF INQ1 THEN Q1 = "YES"; ELSE Q1 = "NO";
  IF INQ2 THEN Q2 = "YES"; ELSE Q2 = "NO";
  IF INQ3 THEN Q3 = "YES"; ELSE Q3 = "NO";
  /*IF INQ4 THEN Q4 = "YES"; ELSE Q4 = "NO"; *AMK NO Q4 FOR 2013; */
RIIN;
TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: COMB2013.SAS By Keith Rathbun";
```

```
TITLE3 "Program Inputs: HCSyyq_2.sas7bdat - Q1-Q3 DOD HCS Sample and Analysis files"; *AMK NO Q4
FOR 2013;
TITLE4 "Program Output: COMB2013.sas7bdat - Combined quarterly datasets in one annual file";
*******************
* Print summary of variable name quarterly overlap.
PROC PRINT; RUN;
******************
* Combine quarterly datasets with all of the "trickle" data into one file.
*************************
DATA COMB2013(DROP= XCATCH /* Xcatch will be recreated based on annual counts */);
  SET INQ1.HCS131_2
                           /* MER 10/5/11 - MISS_3 was out of scope in 2011 and was
dropped */
     INO2.HCS132 2
                            /* starting in Q2. This DROP statement can be removed in
COMB2012 */
     INQ3.HCS133_2
                            /* AMK REMOVED (DROP=MISS 3) for 2012*/
     /*INQ4.HCS124_2*/; *AMK NO Q4 FOR 2013;
  BY MPRID;
  LABEL FIELDAGE = "Age at start of fielding period"
      DAGEQY = "Age at time of data collection"
RUN;
*****************
* Sort by MPRID and check for duplicates. There should not be duplicates.
**************************
PROC SORT DATA=COMB2013 NODUPKEY OUT=TEMP1; BY MPRID; RUN;
*************************
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TEMP with XCATCH is created by this include file.
%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;
PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;
DATA OUT.COMB2013
    HCS131_2x(KEEP=MPRID XCATCH) HCS132_2x(KEEP=MPRID XCATCH)
    HCS133_2x(KEEP=MPRID XCATCH) /*HCS124_2x(KEEP=MPRID XCATCH)*/; *AMK NO Q4 FOR 2013;
  MERGE TEMP1(IN=IN1) TMPXCTCH(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2 THEN DO;
    IF XCATCH = 1350 THEN XCATCH = 117; /* MER 11/15/08 Map new Lackland */
                                   /* catchment area to old one
    IF XCATCH = 37 THEN XCATCH = 67; /* MER 11/7/12 Map old Walter Reed */
                                 /* catchment area to new one
    OUTPUT OUT.COMB2013;
     IF QUARTER="Q1FY2013" THEN OUTPUT HCS131_2x;
     IF QUARTER="Q2FY2013" THEN OUTPUT HCS132_2x;
    IF QUARTER="Q3FY2013" THEN OUTPUT HCS133_2x;
    *IF QUARTER="Q4FY2012" THEN OUTPUT HCS124_2x;*AMK NO Q4 FOR 2013;
  END;
RUN;
DATA INQ1.HCS131_2;
  UPDATE INQ1.HCS131_2 HCS131_2x;
  BY MPRID;
RUN;
DATA INO2.HCS132 2;
  UPDATE INQ2.HCS132_2 HCS132_2x;
  BY MPRID;
RUN;
DATA INO3.HCS133 2;
  UPDATE INQ3.HCS133_2 HCS133_2x;
  BY MPRID;
RIIN;
```

/*DATA INQ4.HCS124_2;
 UPDATE INQ4.HCS124_2 HCS124_2x;
 BY MPRID;
RUN;*/ *AMK NO Q4 FOR 2013;

PROC CONTENTS; RUN;

F.15 WEIGHTING\ADDWGTS.SAS - Merge the combined annual weights with the final questionnaire/sample file - Annual.

```
* PROGRAM: ADDWGTS.SAS
* TASK:
           DOD HEALTH CARE SURVEY ANALYSIS (6244-300)
* PURPOSE: MERGE THE FINAL WEIGHTS FILE WITH THE FINAL
           QUESTIONNAIRE/SAMPLE FILE
* WRITTEN: 02/02/2001 BY KEITH RATHBUN
* MODIFIED: 1) 01/15/2002 BY KEITH RATHBUN: Updated to combine all quarterly
              datasets including trickles with the annual weights file.
           2) 12/30/2002 BY KEITH RATHBUN: Updated for 2002 survey.
           3) 01/20/2004 BY LUCY LU: Updated for 2003 survey.
           4) 02/10/2004 BY KEITH RATHBUN: Added catchment reporting variable
              (XCATCH) constructed in STEP1Q.
           5) 03/03/05 BY LUCY LU: Updateed for 2004 annual survey.
               -- Create macro variables and eliminate macro program,
               -- update the length statement for year 2004.
           6) 01/04/2006 BY KEITH RATHBUN: Updated for 2005 survey.
           7) 09/18/2007 BY LUCY LU: Updated for 2007 survey.
           8) 09/17/2009 BY Emma Ernst: Updated for 2009 survey.
           9) 10/13/2010 BY MIKE RUDACILLE: Updated for 2010 survey.
                 Modified to produce both public and private use datasets.
          10) 09/23/2011 BY MIKE RUDACILLE: Updated for 2011 survey.
          11) 09/20/2012 by AMANDA KUDIS: Updated for 2012 survey.
          12) 07/24/13 BY AMANDA KUDIS: Updates for 2013 survey.
          1) CREPWT.sas7bdat - Final/Replicated Weights file - FORM A
           2) COMB2013.sas7bdat - Combined Q1-Q3 FORM A Questionnaire/Sample File *AMK NO Q4 FOR
2013;
* OUTPUTS: 1) HCSyyA_n.sas7bdat - Final FORM A Questionnaire/Sample File
              combined with Final/Replicated Weights file - FORM A
              where yy = Year
                      A = Form A - Annual
                      n = Final Dataset Suffix/Version Number
           2) HCSyyA_n.XPT - Final Adult SAS XPORT Dataset
              where yy = Year
                      A = Form A - Annual
                      n = Final Dataset Suffix/Version Number
           1) This program combines all of the quarterly input datasets
 NOTES:
              including trickles with the annual weights file.
LIBNAME OUT
                    "..\..\DATA";
LIBNAME LIBRARY "..\..\Data\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER NOFMTERR;
%LET DSNI_1 = CREPWT;
%LET DSNI_2 = COMB2013;
%LET DSNO_1 = HCS13A_1;
%LET DSNO_2 = HCS13A_2;
* Merge the final weights file with the final Questionnaire/Sample file
      ************************
PROC SORT DATA=OUT.&DSNI_1 OUT=&DSNI_1; WHERE FNSTATUS EQ 11; BY MPRID; RUN;
PROC SORT DATA=OUT.&DSNI_2 OUT=&DSNI_2; BY MPRID; RUN;
DATA &DSNO_2(DROP= DRP_RND1 /* jma Oct 24 2008 */
         );
  MERGE &DSNI_2(IN=IN2 )
        &DSNI_1(IN=IN1 KEEP=MPRID CFWT CFWT1-CFWT180); *AMK changed CFWT240 to CFWT180 for
  BY MPRID;
```

```
IF FNSTATUS = 11;
  IF IN1 AND IN2;
  IF NOT (IN1 AND IN2) THEN PUT "ERROR: NO MATCHING MPRID WITH &DSNI_1..sas7bdat AND
&DSNI_2..sas7bdat";
  FORMAT CACSMPL CACR. WEB WEB. /* MER 11/7/12 - changed from CAC to CACR format */
         /*TRICKDUP $trckdup. */
      N1 N1_J1 N1_J2 N1_J3 N1_J4 N1_J5 N1_J6 N1_Q1 N1_AA1 N1_AC1 N1_AC2 N1_AC3
      N2 N3 N4 N5 N5A1 N5A2 N5A3
      N6 N7 N8 N8 01
      N9 N10 N10_B1
      N11 N12 N13 N14 N15 N16
      N17 N17_Q0 N17_Q1 N17_Q2
      N18 N19A N19B N20 N21 N22 N23
      N24 N25
        notes.
        XBMI xbmi.;
   LABEL CFWT='Combined Annual NEW Weight';
 RUN;
DATA OUT.&DSNO_2 ;
       * Reorder file for documentation purposes.
  LENGTH
                         /* ID */
/* sampling variable */
/* sampling variable */
      MPRID
                $8
               8
      SVCSMPL
      SEXSMPL
      STRATUM $ 7
                          /* sampling variable */
                          /* sampling variable */
                8
      CACSMPL
      ENBGSMPL $ 2
                           /* sampling variable */
      MPCSMPL 8
                           /* sampling variable */
                          /* sampling variable */
      NHFF
                 8
                          /* sampling variable */
      SERVAREA $ 2
                          /* sampling variable */
      QUARTER $ 8 /*PRN 8*/
                             /* sampling variable */
     DCATCH $ 4
ENRID $ 4
/*DMIS_ID $ 9*/
                          /* sampling variable */
                          /* sampling variable */
                              /* sampling variable */
               $ 2
                          /* sampling variable */
      MSM
                          /* sampling variable */
               $ 9
      D_FAC
      /*D_PAR
                $ 4*/
                              /* sampling variable */
      D HEALTH
                $ 2
                           /* sampling variable */
                $ 1
                          /* sampling variable */
      TNEXREG
                           /* sampling variable */
      SERVAFF
                $ 1
      /*COM_GEO
                $ 4*/
                              /* sampling variable */ /* MER 7/20/10 - Added to sampling
vars so it won't be */
                                                 /* at the end of the proc contents by
default anymore. */
                                                 /* This variable gets dropped in
                 * /
ADDWGTSA sas
                         /* DEERS variable
      MRTLSTAT $ 1
                $ -
$ 1
- 1
                         /* DEERS variable
/* DEERS variable
      RACEETHN
      PNSEXCD
                $ 3
                          /* DEERS variable
      DAGEOY
                          /* DEERS variable
      RDAGEQY
                3
                          /* DEERS variable
               $ 3
      FIELDAGE
                           /* DEERS variable
      RFLDAGE
                 3
                $ 3
      PCM
                          /* DEERS variable
               $ 1
$ 3
$ 1
                          /* DEERS variable
      ACV
      DBENCAT
                           /* DEERS variable
                          /* DEERS variable
      DMEDELG
                          /* DEERS variable
      DSPONSVC
               $ 1
      MBRRELCD
               $ 1
                           /* DEERS variable
```

MEDTYPE PATCAT	\$ 1 \$ 7	/* /*	DEERS variable		
PNTYPCD	\$ 1	/*	DEERS variable	•	
PNLCATCD	\$ 1	/*	DEERS variable	*/	
H13001	4	/*	Questionnaire	variable	* /
H13002A	4	/*	Ouestionnaire		*/
H13002C	4	/*	Questionnaire	variable	*/
H13002F	4	/*	Questionnaire	variable	* /
H13002G	4	/*	Questionnaire		*/
H13002H H13002I	4 4	/* /*	Questionnaire Ouestionnaire		* / * /
H130021	4	/*	Ouestionnaire		*/
H13002K	4	/*	Questionnaire		*/
H13002L	4	/*	Questionnaire	variable	*/
H13002M	4	/*	Questionnaire		* /
H13002N	4	/*	Questionnaire		*/
H130020 H13002P	4 4	/* /*	Questionnaire Questionnaire		* / * /
H130021	4	/*	Questionnaire		*/
H13002R	4	/*	Questionnaire	variable	*/
H13002S	4	/*	Questionnaire		*/
H13002T	4	/* /*	Questionnaire		*/
H13002U H13003	4 4	/ ^ / *	Questionnaire Ouestionnaire		* / * /
H13003	4	/*	Ouestionnaire		*/
Н13005	4	/*	Questionnaire		*/
Н13006	4	/*	${\tt Questionnaire}$		*/
H13007	4	/*	Questionnaire		*/
H13008 H13009	4 4	/* /*	Questionnaire Questionnaire		* / * /
H13010	4	/*	Ouestionnaire		*/
H13011	4	/*	Questionnaire		*/
H13012	4	/*	Questionnaire	variable	*/
H13013	4	/*	Questionnaire		* /
H13014 H13015	4 4	/* /*	Questionnaire		*/
H13015	4	/* /*	Questionnaire Ouestionnaire		* / * /
H13017	4	/*	Ouestionnaire		*/
H13018	4	/*	Questionnaire	variable	*/
Н13019	4	/*	Questionnaire		*/
H13020	4	/* /*	Questionnaire		*/
H13021 H13022	4 4	/* /*	Questionnaire Ouestionnaire		* / * /
H13022	4	/*	Ouestionnaire		*/
H13024	4	/*	Questionnaire	variable	*/
H13025	4	/*	Questionnaire		* /
H13026	4	/*	Questionnaire		*/
H13027 H13028	4 4	/* /*	Questionnaire Questionnaire		* / * /
H13029	4	/*	Questionnaire		*/
H13030	4	/*	Questionnaire	variable	*/
H13031	4	/*	Questionnaire		*/
H13032	4 4	/*	Questionnaire		*/
H13033 H13034	4	/* /*	Questionnaire Ouestionnaire		* / * /
H13031	4	/*	Questionnaire		*/
H13036	4	/*	Questionnaire		*/
H13037	4	/*	Questionnaire		*/
H13038	4 4	/* /*	Questionnaire		*/
H13039 H13040	4	/* /*	Questionnaire Questionnaire		* / * /
H13040	4	/*	Questionnaire		*/
H13042	4	/*	Questionnaire		*/
H13043	4	/*	Questionnaire		*/
H13044	4	/*	Questionnaire		*/
H13045 H13046	4 4	/* /*	Questionnaire Questionnaire		* / * /
H13046	4	/*	Questionnaire		*/
H13048	4	/*	Questionnaire		*/
H13049	4	/*	Questionnaire		*/
н13050	4	/*	Questionnaire	variable	* /

```
H13051
                            /* Questionnaire variable
                            /* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
H13052
                 4
H13053
н13054
                             /* Questionnaire variable
H13055
                 4
                             /* Questionnaire variable
/* Questionnaire variable
H13056
H13057A
                 4
H13057B
                            /* Questionnaire variable
                            /* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
H13057C
                 4
H13057D
                 4
H13058
                 4
                            /* Questionnaire variable
Н13059В
                 4
                             /* Questionnaire variable
/* Questionnaire variable
H13060
H13061
                 4
                            /* Questionnaire variable
H13062
                            /* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
н13063
                                                                     * /
                 4
H13064
                 4
н13065
               4
                             /* Questionnaire variable
H13066
                 4
                            /* Questionnaire variable
/* Questionnaire variable
H13067
                 4
H13068
                 4
H13069
                            /* Questionnaire variable
                 4
4
4
4
4
4
                            /* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
H13070
H13071F
H13071I
                            /* Questionnaire variable
H13072
                            /* Questionnaire variable
/* Questionnaire variable
H13073
H13073A
                            /* Questionnaire variable
H13073B
                            /* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
/* Questionnaire variable
                                                                     */
                 4
H13073C
H13073D
                 4
H13073E
                 4
                            /* Questionnaire variable
H13074
                 4
                             /* Questionnaire variable
H13075
                 4
                              /* Questionnaire variable
H13076
                 4
                             /* Questionnaire variable
H13077
                          /* Questionnaire variable
H13078
                 4
                              /* Questionnaire variable
н13079
                 4
                            /* Questionnaire variable
SREDA
                 4
                             /* Questionnaire variable
SRRACEA
                 4
                              /* Questionnaire variable
SRRACEB
                 4
                             /* Questionnaire variable
SRRACEC
                             /* Questionnaire variable
SRRACED
                 4
                             /* Questionnaire variable
/* Questionnaire variable
SRRACEE
SRAGE
                 4
                            /* Q1 & Q2 & Q3 Supplement
/* Q1 & Q2 & Q3 Supplement
S13009
                 4
S13010
                 4
                            /* Q1 & Q2 & Q3 Supplement
S13011
                 4
                            /* Q1 & Q2 & Q3 Supplement
S13014
                 4
S13B01
S13B02
                             /* Q1 & Q2 & Q3 Supplement
/* Q1 & Q2 & Q3 Supplement
                 4
                 4
                             /* Q1 & Q2 & Q3 Supplement
S13B03
                 4
                            /* Q1 & Q2 & Q3 Supplement
S13B04
                 4
S13B23
                 4
S13B24
                 4
                            /* Q1 & Q2 & Q3 Supplement
S13B25
                 4
                             /* Q1 & Q2 & Q3 Supplement
/* Q1 Supplement */
S13B26
S13AA01
                 4
                             /* Q1 Supplement
S13AA02A
                 4
                             /* Q1 Supplement
/* Q1 Supplement
S13AA02B
                  4
S13AA02C
                  4
                            /* Q1 Supplement
S13AA02D
                 4
                            /* Q1 Supplement
/* Q1 Supplement
/* Q1 Supplement
/* Q1 Supplement
S13AA02E
                 4
S13AA02F
                  4
S13AA02G
                 4
                             /* Q1 Supplement
S13AA02H
                             /* Q1 Supplement
S13AA02I
                 4
                              /* Q1 Supplement
S13AA02J
                  4
                             /* Q1 Supplement
S13AA02K
S13AA02L
                              /* Q1 Supplement
                 4
                               /* Q1 Supplement
S13AA02V
```

S13AA02M	4	/*	Q1	Supplement	* /
S13AA02N	4	/*	Q1		* /
		,			
S13AA020	4	/*	Q1	Supplement	* /
S13AA02P	4	/*	Q1	Supplement	*/
S13AA02Q	4	/*	Õ1		*/
S13AA02R	4	/*	Q1	Supplement	*/
S13AA02S	4	/*	Q1	Supplement	*/
S13AA02T	4	/*	Q1		* /
S13AA02U	4	/*	Q1	Supplement	* /
S13AA02W	4	/*	Q1	Supplement	*/
S13AA03	4	/*	Q1		* /
S13AA04A	4	/*	Q1	Supplement	* /
S13AA04B	4	/*	Q1	Supplement	* /
S13AA04C	4	/*	Q1	Supplement	* /
S13AA04D	4	/*	Q1	Supplement	*/
S13AA04E	4	/*	Q1		*/
S13AA05	4	/*	Q1	Supplement	*/
S13015	4	/*	Q1	Supplement	*/
S13N11	4	/*	Q1		* /
S13N12A	4	/*	Q1	Supplement	*/
S13N12B	4	/*	Q1		* /
S13N12C	4	/*	Q1	Supplement	*/
S13N12D	4	/*	Q1	Supplement	*/
		/*			
S13N12E	4		Q1		* /
S13N12F	4	/*	Q1	Supplement	* /
S13N12G	4	/*	Q1		* /
S13N12H	4	/*	Q1	Supplement	*/
S13N12I	4	/*	Q1	Supplement	*/
S13N12J	4	/*			*/
			Q1		
S13N12K	4	/*	Q1	Supplement	*/
S13N12L	4	/*	Q1	Supplement	*/
		/*			
S13N12M	4		Q1		* /
S13J01	4	/*	Q2	Supplement	*/
S13J02A	4	/*	Q2		* /
S13J02B	4	/*	Q2	Supplement	* /
S13J02C	4	/*	Q2	Supplement	*/
S13J02D	4	/*	Q2		* /
S13J02E	4	/*	Q2	Supplement	* /
S13J02F	4	/*	Q2	Supplement	* /
S13J02G	4	/*			*/
			Q2		
S13J02H	4	/*	Q2	Supplement	* /
S13J02I	4	/*	Q2	Supplement	*/
S13J03	4	/*	Q2		* /
S13J04	4	/*	Q2	Supplement	* /
S13J05	4	/*	Q2	Supplement	* /
S13J06	4	/*	Q2	Supplement	* /
S13J07A	4	/*	Q2	Supplement	* /
S13J07B	4	/*	Q2	Supplement	*/
S13J07C	4	/*	Q2	Supplement	* /
S13J07D	4	/*	Q2	Supplement	*/
S13J07E	4	/*			*/
			Q2		
S13J07F	4	/*	Q2	Supplement	* /
S13J07G	4	/*	Q2	Supplement	*/
S13J07H	4	/*	02		*/
			~		
S13J07I	4	/*	Q2	Supplement	*/
S13J07J	4	/*	Q2	Supplement	* /
	4	/*			
S13J07K			Q2		* /
S13J07L	4	/*	Q2	Supplement	* /
S13J07M	4	/*	Q2		*/
S13J07N	4	/*	Q2		* /
S13J070	4	/*	Q2	Supplement	* /
S13J08	4	/*	Õ2		*/
S13J09A	4	/*	Q2	Supplement	* /
S13J09B	4	/*	Q2	Supplement	*/
	4	/*			
S13J09C			Q2		*/
S13J09D	4	/*	Q2	Supplement	*/
S13J09E	4	/*	Q2		* /
S13J09F	4	/*	Q2		* /
S13J09G	4	/*	Q2	Supplement	* /
S13J09H	4	/*	Q2		*/
S13J09I	4	/*	Q2	Supplement	* /
S13J09J	4	/*	Q2	Supplement	*/
S13J09K	4	/*	Q2		*/
DISCUSIN	-1	/ *	٧Z	PAPPTEMENT	/

```
/* Q2 Supplement
             S13J09L 4
S13J10 4
             S13J13A
                                           4 /* Q2 Supplement
4 /* Q3 Supplement
             S13J13B
                                                                        /* Q2 Supplement
                                              4
             S13J13C
             S13J13D
             S13J13E
             S13J13F
             S13J13G
             S13J13H
             S13J13I
             S13J13J
             S13J13K
             S13J13L
             S13J13M
             S13J13N
             S13J14
             S13AC01
             S13AC02A
             S13AC02B
             S13AC02C
             S13AC02D
             S13AC02E
             S13AC02F
             S13AC02G
             S13AC03
             S13AC04
             S13AC05A
             S13AC05B
             S13AC05C
             S13AC05D
             S13AC05E
             S13AC05F
             S13AC05G
             S13C09
             S13C10
             S13C11
S13C12
             S13C13
             S13C14
             S13Q01
S13Q02
             S13Q03
             S13Q04
S13Q05
                                                                          /* Q3 Supplement
/* Q3 Supplement
                                              4
             S13Q08
             ONTIME $ 3 /* Survey fielding variable */
FLAG_FIN $ 5 /* Survey fielding variable */
             DUPFLAG
                                                                            /* Survey fielding variable */
                                         $ 3
                                        8
8
8
                                                                             /* Survey fielding variable */
              FNSTATUS
                                                  8
                                                                             /* Survey fielding variable */
             KEYCOUNT
                                                                              /* Survey fielding variable */
/** jma 11/17/11 MIQCNTL $ 12 ***/
                                                                                                                            /* Survey fielding variable */
                                                                              /* CS flag variable
                                                                                                                                               *//*AMK removed for 2013*/
                                                                        /* CS flag variable
                                                                                                                                              * /
```

```
/* CS flag variable
/* CS flag variable
                                          8
8
8
  Ν5
  N5A1
                                                                                       /* CS flag variable
/* CS flag variable
  N5A2
  N5A3
                                          /* CS flag variable
                                                8
  N6
  Ν7
  MΑ
  N8_01
N9
  N10
  N10_B1
  N11
  N12
  N13
  N14
  N15
  N16
  N17
  N17_Q0
  N17_Q1
N17_Q2
  N18
  N19A
  N19B
  N20
  N21
  N22
  N23
                                                8
                                                                                        /* CS flag variable
  N24
                                                                                        /* CS flag variable
                                                 8
  N25
                                                                              /* CS Count
/* CS Count
/* CS Count
  MISS_1
                                              8
  MISS_4
                                               8
  MISS_5
                                                                                       /* CS Count
                                               8
  MISS_6
                                                                                       /* CS Count
  MISS_7
MISS_9
                                               8
                                                                                       /* CS Count
/* CS Count
                                                       8
                                                8
JSFLAG 8 /* constructed
XENRLLMT 8 /* constructed
XENR_PCM 8 /* constructed
XINS_COV 8 /* constructed
XENR_RSV 8 /* constructed
XENR_RSV 8 /* constructed
XINS_RSV 8 /* constructed
XTNEXREG 3 /* constructed
XCATCH 8 /* constructed
USA 3 /* constructed
USA 3 /* constructed
XSEXA 8 /* constructed
XSEXA 8 /* constructed
XBMI 8 /* constructed
XBMI 8 /* constructed
XBMI 7 constructed
XBMI 8 /* constructed
XBMICAT 3 /* constructed
XBMICAT 
  MISS_TOT
                                                                                                                                                                                * /
                                                                                                                                                                                * /
                                                                                                                                                                               * /
                                                                                         /* constructed
   HP_OBESE
                                                        8
                                                                                         /* constructed
                                                       8
  HP_SMOKE
                                                                                             /* constructed
  HP_SMKH3
                                                        8
                                                       8
                                                                                         /* constructed
  HP_CESH3
  POSTCELL
                                                                                             /* Postratification Variables */
```

BWT	8	/*	weights	* /
FWRWT	8	/*	woighta	* /
FWRWT1	8	/*	weights weights	* /
FWRWT2	8	/*	weights	*/
FWRWT3	8	/*	weights	* /
FWRWT4	8	/*	weights	* /
FWRWT5	8	/*	weights	* /
FWRWT6	8	/*	weights	* /
FWRWT7	8	/*	weights	* /
FWRWT8 FWRWT9	8	/* /*	weights weights	*/
FWRWT10	8	/*	weights	* / * /
FWRWT11	8	/*	weights	*/
FWRWT12	8	/*	weights	*/
FWRWT13	8	/*	weights	* /
FWRWT14	8	/*	weights	* /
FWRWT15	8	/*	weights	* /
FWRWT16	8	/*	weights	* /
FWRWT17	8	/*	weights	*/
FWRWT18 FWRWT19	8	/* /*	weights weights	* / * /
FWRWT20	8	/*	weights	* /
FWRWT21	8	/*	weights	*/
FWRWT22	8	/*	weights	* /
FWRWT23	8	/*	weights	* /
FWRWT24	8	/*	weights	* /
FWRWT25	8	/*	weights	* /
FWRWT26	8	/*	weights	* /
FWRWT27	8	/*	weights	*/
FWRWT28 FWRWT29	8	/* /*	weights weights	* / * /
FWRWT30	8	/*	weights	*/
FWRWT31	8	/*	weights	*/
FWRWT32	8	/*	weights	* /
FWRWT33	8	/*	weights	* /
FWRWT34	8	/*	weights	* /
FWRWT35	8	/*	weights	* /
FWRWT36	8	/*	weights	*/
FWRWT37 FWRWT38	8	/* /*	weights weights	* / * /
FWRWT39	8	/*	weights	* /
FWRWT40	8	/*	weights	*/
FWRWT41	8	/*	weights	*/
FWRWT42	8	/*	weights	* /
FWRWT43	8	/*	weights	* /
FWRWT44	8	/*	weights	*/
FWRWT45	8	/*	weights	*/
FWRWT46 FWRWT47	8	/* /*	weights weights	* / * /
FWRWT48	8	/*	weights	* /
FWRWT49	8	/*	weights	*/
FWRWT50	8	/*	weights	* /
FWRWT51	8	/*	weights	* /
FWRWT52	8	/*	weights	* /
FWRWT53	8	/*	weights	*/
FWRWT54	8	/*	weights	*/
FWRWT55 FWRWT56	8	/* /*	weights weights	* / * /
FWRWT57	8	/*	weights	*/
FWRWT58	8	/*	weights	*/
FWRWT59	8	/*	weights	* /
FWRWT60	8	/*	weights	*/
CFWT	8	/*	weights	* /
CFWT1	8	/*	weights	*/
CFWT2	8	/*	weights	*/
CFWT3	8	/*	weights	* /
CFWT4	8	/*	weights	* /
CFWT5	8	/*	weights	*/
CFWT6 CFWT7	8	/* /*	weights weights	* / * /
CT. MT 1	U	/	weights	/

CFWT8	8	/* weights	* /
CFWT9	8	/* weights	*/
CFWT10	8	3	*/
		3	
CFWT11	8	/* weights	* /
CFWT12	8	/* weights	* /
CFWT13	8	/* weights	* /
CFWT14	8	/* weights	* /
CFWT15	8	/* weights	*/
CFWT16	8	_	
		3	* /
CFWT17	8	/* weights	* /
CFWT18	8	/* weights	* /
CFWT19	8	/* weights	* /
CFWT20	8	/* weights	* /
CFWT21	8	/* weights	*/
CFWT22	8	/* weights	*/
CFWT23	8	/* weights	* /
CFWT24	8	/* weights	* /
CFWT25	8	/* weights	* /
CFWT26	8	/* weights	* /
CFWT27	8	/* weights	* /
CFWT28	8	/* weights	*/
CFWT29	8	/* weights	* /
CFWT30	8	/* weights	* /
CFWT31	8	/* weights	* /
CFWT32	8	/* weights	* /
CFWT33	8	/* weights	* /
CFWT34	8	/* weights	*/
CFWT35	8	/* weights	*/
CFWT36	8	/* weights	* /
CFWT37	8	/* weights	* /
CFWT38	8	/* weights	* /
CFWT39	8	/* weights	* /
CFWT40	8	/* weights	*/
CFWT41	8	/* weights	*/
		3	
CFWT42	8	/* weights	* /
CFWT43	8	/* weights	* /
CFWT44	8	/* weights	* /
CFWT45	8	/* weights	* /
CFWT46	8	/* weights	* /
CFWT47	8	/* weights	* /
CFWT48	8	/* weights	*/
CFWT49	8	/* weights	*/
		_	
CFWT50	8	/* weights	* /
CFWT51	8	/* weights	* /
CFWT52	8	/* weights	* /
CFWT53	8	/* weights	* /
CFWT54	8	/* weights	* /
CFWT55	8	/* weights	*/
CFWT56	8	/* weights	
			* /
CFWT57	8	/* weights	* /
CFWT58	8	/* weights	* /
CFWT59	8	/* weights	* /
CFWT60	8	/* weights	* /
CFWT61	8	/* weights	* /
CFWT62	8	/* weights	*/
	8	_	*/
CFWT63		3	
CFWT64	8	/* weights	* /
CFWT65	8	/* weights	* /
CFWT66	8	/* weights	* /
CFWT67	8	/* weights	* /
CFWT68	8	/* weights	* /
CFWT69	8	/* weights	*/
CFWT70	8	/* weights	*/
		_	
CFWT71	8	/* weights	* /
CFWT72	8	/* weights	* /
CFWT73	8	/* weights	* /
CFWT74	8	/* weights	* /
CFWT75	8	/* weights	* /
CFWT76	8	/* weights	*/
CFWT77	8	/* weights	*/
CFWT78	8	/* weights	*/
CFWT79	8	/* weights	* /
CFWT80	8	/* weights	* /

CFWT81	8	/* weights	* /
CFWT82	8	/* weights	*/
	8		*/
CFWT83			
CFWT84	8	/* weights	* /
CFWT85	8	/* weights	* /
CFWT86	8	/* weights	* /
CFWT87	8	/* weights	* /
CFWT88	8	/* weights	*/
CFWT89	8	/* weights	*/
CFWT90	8	/* weights	*/
CFWT91	8	/* weights	* /
CFWT92	8	/* weights	* /
CFWT93	8	/* weights	* /
CFWT94	8	/* weights	* /
CFWT95	8	/* weights	* /
CFWT96	8	/* weights	*/
CFWT97	8	_	*/
CFWT98	8	/* weights	* /
CFWT99	8	/* weights	* /
CFWT100	8	/* weights	* /
CFWT101	8	/* weights	* /
CFWT102	8	/* weights	* /
CFWT103	8	/* weights	*/
CFWT104	8	/* weights	*/
CFWT105	8	/* weights	* /
CFWT106	8	/* weights	* /
CFWT107	8	/* weights	* /
CFWT108	8	/* weights	* /
CFWT109	8	/* weights	* /
CFWT110	8	/* weights	* /
CFWT111	8	/* weights	*/
CFWT112	8	/* weights	*/
CFWT113	8	/* weights	* /
CFWT114	8	/* weights	* /
CFWT115	8	/* weights	* /
CFWT116	8	/* weights	* /
CFWT117	8	/* weights	* /
CFWT118	8	/* weights	*/
CFWT119	8	/* weights	*/
CFWT120	8	/* weights	*/
CFWT121	8	/* weights	* /
CFWT122	8	/* weights	* /
CFWT123	8	/* weights	* /
CFWT124	8	/* weights	* /
CFWT125	8	/* weights	* /
CFWT126	8	/* weights	*/
		, 5	
CFWT127	8		*/
CFWT128	8	/* weights	* /
CFWT129	8	/* weights	* /
CFWT130	8	/* weights	* /
CFWT131	8	/* weights	* /
CFWT132	8	/* weights	* /
CFWT133	8	/* weights	*/
CFWT134	8	/* weights	*/
	8	_	
CFWT135		/* weights	*/
CFWT136	8	/* weights	* /
CFWT137	8	/* weights	* /
CFWT138	8	/* weights	* /
CFWT139	8	/* weights	* /
CFWT140	8	/* weights	*/
CFWT141	8	/* weights	*/
	8	/* weights	
CFWT142		_	*/
CFWT143	8	/* weights	*/
CFWT144	8	/* weights	* /
CFWT145	8	/* weights	* /
CFWT146	8	/* weights	* /
CFWT147	8	/* weights	*/
CFWT148	8	/* weights	*/
CFWT146	8		*/
		~	
CFWT150	8	/* weights	*/
CFWT151	8	/* weights	* /
CFWT152	8	/* weights	* /
CFWT153	8	/* weights	* /
		-	

```
8
      CFWT154
                          /* weights
                          /* weights
      CFWT155
                                               */
                           /* weights
      CFWT156
                  8
      CFWT157
                 8
                           /* weights
                          /* weights
      CFWT158
                 8
                           /* weights
/* weights
      CFWT159
                  8
                 8
      CFWT160
                          /* weights
                 8
      CFWT161
                          /* weights
                 8
      CFWT162
                           /* weights
      CFWT163
                  8
                 8
                           /* weights
      CFWT164
                          /* weights
                 8
      CFWT165
                           /* weights
/* weights
      CFWT166
                  8
                 8
      CFWT167
                          /* weights
                                               * /
      CFWT168
                 8
                          /* weights
                 8
                                               * /
      CFWT169
                           /* weights
                                               * /
      CFWT170
                  8
                 8
                           /* weights
                                               */
      CFWT171
                 8
                          /* weights
                                               * /
      CFWT172
                           /* weights
      CFWT173
                  8
                 8
                                               * /
                           /* weights
      CFWT174
                          /* weights
      CFWT175
                 8
                                               */
                 8
                           /* weights
      CFWT176
      CFWT177
                  8
                           /* weights
                           /* weights
                 8
      CFWT178
                           /* weights
      CFWT179
                 8
                 8
      CFWT180
                           /* weights
                  8
                                                ^{*}/ /*AMK FOR 2013 WEIGHTS ONLY GO UP TO 180
        CFWT181
                           /* weights
B/C NO Q4 */
/*
                            /* weights
       CFWT182
                    8
                                                * /
/*
        CFWT183
                    8
                             /* weights
                                                 * /
/*
                   8
                             /* weights
       CFWT184
/*
                             /* weights
       CFWT185
                    8
                    8
                             /* weights
       CFWT186
/*
                             /* weights
       CFWT187
                             /* weights
/*
                   8
       CFWT188
                   8
                             /* weights
/*
       CFWT189
/*
       CFWT190
                             /* weights
                    8
/*
                             /* weights
       CFWT191
                            /* weights
/*
       CFWT192
                    8
                             /* weights
/*
       CFWT193
                    8
8
/*
                             /* weights
       CFWT194
/*
                             /* weights
       CFWT195
                   8
                   8
                            /* weights
                                                 */
/*
       CFWT196
                    8
8
/*
                             /* weights
       CFWT197
/*
                             /* weights
       CFWT198
/*
                             /* weights
       CFWT199
                    8
                             /* weights
                    8
       CFWT200
/*
                             /* weights
       CFWT201
/*
       CFWT202
                   8
                             /* weights
/*
                             /* weights
                                                 */
                  8
       CFWT203
                    8
/*
                             /* weights
       CFWT204
                             /* weights
/*
       CFWT205
,
/*
                             /* weights
       CFWT206
                    8
                             /* weights
                    8
8
/*
       CFWT207
/*
                             /* weights
       CFWT208
                             /* weights
                   8
       CFWT209
/*
                   8
                             /* weights
       CFWT210
                    8
/*
       CFWT211
                             /* weights
                             /* weights
       CFWT212
/*
                             /* weights
       CFWT213
                    8
                    8
                             /* weights
       CFWT214
/*
                             /* weights
       CFWT215
/*
                             /* weights
       CFWT216
                    8
/
/*
                             /* weights
       CFWT217
                    8
/*
                    8
                             /* weights
       CFWT218
                    8
/
/*
/*
                             /* weights
       CFWT219
                             /* weights
                    8
        CFWT220
                    8
                             /* weights
       CFWT221
,
/*
                             /* weights
       CFWT222
                    8
                             /* weights
       CFWT223
                    8
                              /* weights
       CFWT224
                    8
        CFWT225
                    8
                              /* weights
```

```
CFWT226 8
CFWT227 8
CFWT228 8
                              /* weights
                            /* weights
/*
        CFWT228
                     8
                              /* weights
                             / weights
                    8
        CFWT229
                           /* weights
,
//***
//////
//*
                   8
        CFWT230
                8
8
8
8
8
        CFWT231
        CFWT232
        CFWT233
        CFWT234
        CFWT235
        CFWT236
                            /* weights
/* weights
/* weights
        CFWT237
                    8
                     8
        CFWT238
        CFWT239
                               /* weights
        CFWT240
  SET &DSNO_2;
  LABEL XCATCH = "XCATCH - Catchment Area (Reporting) ";
  FORMAT XCATCH CACR.;
RUN;
TITLE1 "DOD Annual Health Care Survey (0663-300)";
TITLE2 "Program Name: ADDWGTS.SAS";
TITLE3 "Program Inputs: &DSNI_1..sas7bdat -- &DSNI_2..sas7bdat";
TITLE4 "Program Outputs: &DSNO_1..sas7bdat -- &DSNO_2..sas7bdat";
PROC CONTENTS POSITION; RUN;
/* Create public-use dataset */
DATA OUT.&DSNO_1;
  SET OUT.&DSNO_2(DROP=MSA_ID /** jma 11/17/2011***/
                      CACSMPL SERVAREA DCATCH MSM
                      D_FAC DAGEQY FIELDAGE PNLCATCD
                      DMEDELG MEDTYPE MBRRELCD MRTLSTAT
                       PNBRTHDT PGCD
                                       MASTCD
                                               MAPRZIP
                      MAPRZIPX RANKCD ENRID);
RUN;
PROC CONTENTS POSITION; RUN;
*******************
* Output the restricted use CONTENTS text file for delivery with the
* database CD.
PROC PRINTTO PRINT="&DSNO_2..TXT" NEW; RUN;
OPTIONS PAGENO=1;
TITLE4 "Program Outputs: &DSNO_2..sas7bdat/XPT";
PROC CONTENTS DATA=OUT.&DSNO_2; RUN;
* Define and generate SAS Transport file.
LIBNAME XFILE1 XPORT "..\..\data\&DSNO_1..XPT";
PROC COPY IN=OUT OUT=XFILE1; * Converts input file to transport file;
         LIBNAME XFILE2 XPORT "..\..\data\&DSNO_2..XPT";
PROC COPY IN=OUT OUT=XFILE2; * Converts input file to transport file; SELECT &DSNO_2; * Selects sas7bdat file to copy;
RUN;
```

F.16 WEIGHTING\FIX2011XCATCH.SAS - Fix catchment reporting variable (XCATCH) for 2011 - Annual.

```
* PROGRAM: Fix2011XCATCH.SAS
* PURPOSE: Fix catchment reporting variable (XCATCH) for 2011
 WRITTEN November 6, 2007 BY Keith Rathbun
* TASK:
          2012 DoD Database Development (6244-300)
* INPUTS: 1) FRAMEA.sas7bdat - 2011 Quarterly Sample Frames
          2) HCS11A_1/2.sas7bdat - 2011 Combined Annual HCSDB dataset
 UPDATES: 1) September 17, 2009 by Emma Ernst for 2009 database
          2) September 2, 2010 by Mike Rudacille for 2010 database
          3) September 23, 2011 by Mike Rudacille for 2011 database
          4) September 19, 2012 by Amanda Kudis for 2012 database
 OUTPUTS: 1) XCATCH11.sas7bdat - 2011 combined corrected Annual HCSDB dataset
             (output in the 2012 data area)
 NOTES:
         1) XCATCH needed to be redefined with the 2012 definition
             on the 2011 annual dataset
*********************
OPTIONS NOFMTERR NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT "..\..\DATA";
LIBNAME IN2011 "..\..\2011\DATA";
* Extract variables necessary to construct XCATCH by QUARTER.
%MACRO GET_QTR(QTR=);
  PROC SORT DATA=IN2011.HCS11A_2
       (KEEP=MPRID ENRID PCM DCATCH D_HEALTH D_FAC SERVAFF XREGION PATCAT QUARTER TNEXREG)
       OUT=TEMP1_&QTR;
     BY MPRID;
     WHERE QUARTER = "&QTR";
  RIIN;
%MEND;
%GET_QTR(QTR=Q1FY2011);
%GET_QTR(QTR=Q2FY2011);
%GET_QTR(QTR=Q3FY2011);
%GET_QTR(QTR=Q4FY2011);
* Extract D_PAR for use with creating XCATCH.
**************************
%MACRO GETD_PAR(LOC=);
  LIBNAME IN "..\..\&LOC.\DATA\AFINAL";
  PROC SORT DATA=IN.FRAMEA(KEEP=MPRID D_PAR) OUT=&LOC.;
     BY MPRID;
  RUN;
%MEND;
%GETD_PAR(LOC=Q1FY2011);
%GETD_PAR(LOC=Q2FY2011);
%GETD_PAR(LOC=Q3FY2011);
%GETD_PAR(LOC=Q4FY2011);
DATA Q1;
  MERGE Q1FY2011(IN=IN1) TEMP1_Q1FY2011(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;
DATA 02;
  MERGE Q2FY2011(IN=IN1) TEMP1_Q2FY2011(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;
```

```
DATA 03;
  MERGE Q3FY2011(IN=IN1) TEMP1_Q3FY2011(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
DATA Q4;
  MERGE Q4FY2011(IN=IN1) TEMP1_Q4FY2011(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RIIN;
DATA TEMP1;
  SET Q1 Q2 Q3 Q4;
  BY MPRID;
          SERVAFF = 'A' THEN XSERVAFF = 1; * Army;
  ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; * Air Force;
  ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; * Navy;
  ELSE XSERVAFF = 4;
                                          * Other;
   *******************
  * Assign XTNEXREG and XOCONUS using XREGION.
  IF XREGION IN (1,2,5) THEN XTNEXREG = 1;
  ELSE IF XREGION IN (3,4,6) THEN XTNEXREG = 2;
  ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNEXREG = 3;
  ELSE IF XREGION IN (13,14,15) THEN XTNEXREG = 4;
  ELSE IF XREGION = . THEN DO; /* MER 03/23/10 - If XREGION is missing, set XTNEXREG = TNEXREG
     IF TNEXREG = 'N' THEN XTNEXREG=1;
     ELSE IF TNEXREG = 'S' THEN XTNEXREG=2;
     ELSE IF TNEXREG = 'W' THEN XTNEXREG=3;
     ELSE IF TNEXREG = 'O' THEN XTNEXREG=4;
     ELSE XTNEXREG=.;
  END;
                 = 13 THEN XOCONUS = 1;
  IF XREGION
  ELSE IF XREGION = 14 THEN XOCONUS = 2;
  ELSE IF XREGION = 15 THEN XOCONUS = 3;
RUN;
************************
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TMPXCTCH with XCATCH is created by this include file.
%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;
PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;
PROC SORT DATA=IN2011.HCS11A_1(DROP=XCATCH) OUT=HCS11A_1;
  BY MPRID;
RUN;
DATA OUT.XCATCH11;
  MERGE HCS11A_1(IN=IN1) TMPXCTCH(IN=IN2);
  BY MPRID;
  FORMAT _ALL_;
  KEEP MPRID XCATCH QUARTER;
RIIN;
TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: Fix2011XCATCH.SAS By Keith Rathbun";
TITLE3 "Program Inputs: 2011 HCSDB sample and analysis files";
TITLE4 "Program Output: XCATCH11.sas7bdat - FY 2011 Combined XCATCH dataset";
PROC FREO;
  TABLES XCATCH /MISSING LIST;
```

F.17 WEIGHTING\FIX2012XCATCH.SAS - Fix catchment reporting variable (XCATCH) for 2012 - Annual.

```
* PROGRAM: Fix2010XCATCH.SAS
* PURPOSE: Fix catchment reporting variable (XCATCH) for 2010
 WRITTEN November 6, 2007 BY Keith Rathbun
* TASK:
          2012 DoD Database Development (6244-300)
* INPUTS: 1) FRAMEA.sas7bdat - 2010 Quarterly Sample Frames
          2) HCS10A_1/2.sas7bdat - 2010 Combined Annual HCSDB dataset
 UPDATES: 1) September 17, 2009 by Emma Ernst for 2009 database
          2) September 2, 2010 by Mike Rudacille for 2010 database
          3) September 23, 2011 by Mike Rudacille for 2011 database
          4) September 23, 2012 by Mike Rudacille for 2012 database
 OUTPUTS: 1) XCATCH12.sas7bdat - 2012 combined corrected Annual HCSDB dataset
             (output in the 2013 data area)
 NOTES:
         1) XCATCH needed to be redefined with the 2011 definition
             on the 2012 annual dataset
*********************
OPTIONS NOFMTERR NOCENTER LS=132 PS=80 COMPRESS=YES;
LIBNAME OUT "..\..\DATA";
LIBNAME IN2012 "..\..\2012\DATA";
* Extract variables necessary to construct XCATCH by QUARTER.
%MACRO GET_QTR(QTR=);
  PROC SORT DATA=IN2012.HCS12A_2
       (KEEP=MPRID ENRID PCM DCATCH D_HEALTH D_FAC SERVAFF XREGION PATCAT QUARTER TNEXREG)
       OUT=TEMP1_&QTR;
     BY MPRID;
     WHERE QUARTER = "&QTR";
  RIIN;
%MEND;
%GET_QTR(QTR=Q1FY2012);
%GET_QTR(QTR=Q2FY2012);
%GET_QTR(QTR=Q3FY2012);
%GET_QTR(QTR=Q4FY2012);
* Extract D_PAR for use with creating XCATCH.
**************************
%MACRO GETD_PAR(LOC=);
  LIBNAME IN "..\..\&LOC.\DATA\AFINAL";
  PROC SORT DATA=IN.FRAMEA(KEEP=MPRID D_PAR) OUT=&LOC.;
     BY MPRID;
  RUN;
%MEND;
%GETD_PAR(LOC=Q1FY2012);
%GETD_PAR(LOC=Q2FY2012);
%GETD_PAR(LOC=Q3FY2012);
%GETD_PAR(LOC=Q4FY2012);
DATA Q1;
  MERGE Q1FY2012(IN=IN1) TEMP1_Q1FY2012(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;
DATA 02;
  MERGE Q2FY2012(IN=IN1) TEMP1_Q2FY2012(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RUN;
```

```
DATA 03;
  MERGE Q3FY2012(IN=IN1) TEMP1_Q3FY2012(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
DATA Q4;
  MERGE Q4FY2012(IN=IN1) TEMP1_Q4FY2012(IN=IN2);
  BY MPRID;
  IF IN1 AND IN2;
RIIN;
DATA TEMP1;
  SET Q1 Q2 Q3 Q4;
  BY MPRID;
          SERVAFF = 'A' THEN XSERVAFF = 1; * Army;
  ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; * Air Force;
  ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; * Navy;
  ELSE XSERVAFF = 4;
                                          * Other;
   *******************
  * Assign XTNEXREG and XOCONUS using XREGION.
  IF XREGION IN (1,2,5) THEN XTNEXREG = 1;
  ELSE IF XREGION IN (3,4,6) THEN XTNEXREG = 2;
  ELSE IF XREGION IN (7,8,9,10,11,12,16) THEN XTNEXREG = 3;
  ELSE IF XREGION IN (13,14,15) THEN XTNEXREG = 4;
  ELSE IF XREGION = . THEN DO; /* MER 03/23/10 - If XREGION is missing, set XTNEXREG = TNEXREG
     IF TNEXREG = 'N' THEN XTNEXREG=1;
     ELSE IF TNEXREG = 'S' THEN XTNEXREG=2;
     ELSE IF TNEXREG = 'W' THEN XTNEXREG=3;
     ELSE IF TNEXREG = 'O' THEN XTNEXREG=4;
     ELSE XTNEXREG=.;
  END;
                 = 13 THEN XOCONUS = 1;
  IF XREGION
  ELSE IF XREGION = 14 THEN XOCONUS = 2;
  ELSE IF XREGION = 15 THEN XOCONUS = 3;
RUN;
************************
* Create and attach XCATCH (Catchment Reporting variable) to final dataset.
* Note that dataset TMPXCTCH with XCATCH is created by this include file.
%INCLUDE "XCATCH.INC"; * Requires input dataset called TEMP1;
PROC SORT DATA=TMPXCTCH; BY MPRID; RUN;
PROC SORT DATA=IN2012.HCS12A_1(DROP=XCATCH) OUT=HCS12A_1;
  BY MPRID;
RUN;
DATA OUT.XCATCH12;
  MERGE HCS12A_1(IN=IN1) TMPXCTCH(IN=IN2);
  BY MPRID;
  FORMAT _ALL_;
  KEEP MPRID XCATCH QUARTER;
RIIN;
TITLE1 "Annual DOD Health Care Survey Database (6244-300)";
TITLE2 "Program Name: Fix2012XCATCH.SAS By Keith Rathbun";
TITLE3 "Program Inputs: 2012 HCSDB sample and analysis files";
TITLE4 "Program Output: XCATCH12.sas7bdat - FY 2012 Combined XCATCH dataset";
PROC FREO;
  TABLES XCATCH /MISSING LIST;
```

F.18 WEIGHTING\XCATCH.INC - Create detailed CACSMPL for annual report cards - Annual.

```
********************
* PROGRAM: XCATCH.INC
           DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
 TASK:
           CREATE DETAILED CACSMPL FOR ANNUAL REPORT CARDS
 PURPOSE:
* WRITTEN: 01/20/2004 BY KEITH RATHBUN
* MODIFIED: 1) 02/14/2005 BY LUCY LU. RENAME STEP1Q.INC TO XCATCH.INC
            2) 03/10/2005 BY LUCY LU, REVISED PROGRAM TO RUN 2002 AND 2003 FILES
            3) 01/06/2006 BY KEITH RATHBUN. Updated for 2006. Removed
               PROCESS macro.
           1) TEMP1.sas7bdat - Temporary SAS dataset
 INPUTS:
           2) TMA.sas7bdat - TMA-provided catchment definitions
          1) TEMP.sas7bdat - Temporary SAS dataset
 OUTPUT:
 NOTES:
           1) This program is setup to run for all survey years as long
             as the necessary variables are passed to it in TEMP1.
           2) Required variables in TEMP1 dataset include the following:
              MPRID, ENRID, PCM, DCATCH, D_PAR, D_HEALTH, and D_FAC.
* INCLUDES: 1) AssignGEOCELL.inc
           2) AssignCOM_GEO.inc
*************************
%LET smplqtr=Q3FY2013;
LIBNAME TMA V9 "..\..\&smplqtr\DATA\AFINAL";
DATA TEMP(KEEP=MPRID GEOCELL PCM ENRID XTNEXREG XSERVAFF XOCONUS PATCAT);
  SET TEMP1;
  BY MPRID;
  if pcm = 'MTF' then do;
     %INCLUDE "..\..\&smplqtr\Programs\Sampling\AssignGeoCell.inc";
     else if ('1976' <= enrid <= '1980' ) or ( '6301' <= enrid <= '6323' ) or
        ('6991' <= enrid <= '6994') or ('6501' <=enrid <='6512') or
        ('7166' <= enrid <= '7195') or ('6700' <= enrid <= '6881') or enrid='0000'
        then geocell=dcatch; *administrative assignment 1976-1980 added q4 2002, 6700-6881 added
q1 2004,
                             0000 added q1,2005;
       else if ('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919')
        then geocell = dcatch; *Managed care contractor assignment, added in q1 2005; *8001-8036
added q2 2005;
     else if ('3031' <= enrid <= '3057')
        then geocell = dcatch; ***On board ship***;
     else if enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208',
'0250',
                      '0449', '0626', '0012')
        then geocell = dcatch; ***Inactive***; *0626 added q2 2003, 0012 added q4 2003,
                                               0041, 0044, 0082, 0111, 0213, 0235, 0585 added
q2 2005;
     else if enrid = ' ' then geocell = dcatch; ***enrolled, but missing ENRID, added q2
     else if ('0190' <= enrid <='0199') then geocell = dcatch;**BYDON;
     else geocell = enrid;
  else if patcat='ACTDTY' then geocell=dcatch; /*Added in q1fy2007, Put the rest of ACTDTY in
their dcatch for sampling purpose*/
  else geocell=dcatch;
PROC SORT DATA=TEMP; BY GEOCELL; RUN;
data TMA (keep = geocell d_par d_fac d_instal d_health d_dmis servaff);
  set TMA.TMA;
```

```
rename facility_Type_Code =d_fac
                           =d_instal
=d_dmis
         installation Name
         dmis_facility_Name
         facility_Service_Code=servaff;
  length d_par $4.;
  d_par = DMIS_PARENT_ID;
  length geocell $4.;
  geocell = DMIS_ID;
  length d_health $2.;
  d_health = HEALTH_Service_region;
PROC SORT DATA=TMA; BY GEOCELL; RUN;
DATA TEMP;
  MERGE TEMP(IN=IN1) TMA(IN=IN2);
  BY GEOCELL;
  LENGTH FLAG $15;
  IF IN1 AND IN2 THEN FLAG = "BOTH";
  ELSE IF IN1 THEN FLAG = "HCSDB ONLY";
  ELSE FLAG = "TMA XLS ONLY";
  IF IN1;
RIIN;
PROC FREO;
  TABLES FLAG /MISSING LIST;
DATA TEMP(KEEP=MPRID XCATCH XTNEXREG XSERVAFF XOCONUS);
  SET TEMP;
  LENGTH XCATCH 8;
  com_geo = geocell;
  if pcm = 'MTF' then do;
     else if ('1976' <= enrid <= '1980' ) or ( '6301' <= enrid <= '6323' ) or
        ('6991' <= enrid <= '6994') or ('6501' <=enrid <='6512') or
        ('7166' <= enrid <= '7195') or ( '6700' <= enrid <= '6881' ) or enrid = '0000' or
        ('8001' <= enrid <= '8036') or ('6901' <= enrid <= '6919') or
        ('3031' <= enrid <= '3057') or
        enrid in ('0002', '0041', '0044', '0082', '0111', '0213', '0235', '0585', '5208',
'0250',
                      '0449', '0626', '0012') or
        ('0190' <= enrid <='0199') then com_geo = geocell;
     else com_geo = d_par;
  end;
  else if patcat='ACTDTY' then com_geo=d_par;
  if d_fac='NONCAT' or d_fac='TGRO' or d_fac="TPR" then do;
     if d_health in ('01','02','05','17') then com\_geo = '9901';
     else if d_health in ('03','04','06','18') then com_geo = '9902';
     else if d_health in ('07','08','09','10','11','12','19') then com\_geo = '9903';
     else if d_health in ('00','13','14','15') then com_geo = '9904';
  end;
  ********************************
  ***d_fac="TPR" and d_health = '17', '18', '19' were added above for Q4, 2004, ***;
  ***since we got the new regions 17(North T_NEX),18(South T_NEX),19(West T_NEX).***;
  *** If the facility is unknown then set com_geo indicates unknown facility ***;
  *** '0999' added 03/15 to account for id 6992;
  if com_geo in ('9900', '0999', '0998',' ') then com_geo = '9904';
  ***Made the following 9 Navy sites stand alone in g1,2005: ***;
  ***'0026','0068','0231','0378','0387','0405','0407','0508','6215'***;
  ***********************
   \text{if geocell in } (\ '0026', \ '0068', \ '0231', \ '0378', \ '0387', \ '0405', \ '0407', \ '0508', \ '6215') \ \ \text{then} \\  \text{then} 
com_geo=geocell;
  xcatch = INPUT(com_geo,8.);
  label xcatch = "XCATCH - Catchment Area (Reporting)";
RIIN;
```

```
PROC SORT DATA=TEMP; BY XCATCH; RUN;
PROC SUMMARY DATA=TEMP NWAY;
    CLASS XCATCH;
     OUTPUT OUT=TEMPCNT(DROP=_TYPE_ rename=_FREQ_=XCATCHno);
RUN;
PROC PRINT DATA=TEMPCNT;
RUN;
DATA TMPXCTCH(KEEP=MPRID XCATCH);
  MERGE TEMPCNT TEMP;
   BY XCATCH;
   /*** JMA 10/25/2006 Values of Xcatch which occur less than 20 times in
   *** the dataset will be updated
   IF XCATCHno < 60 THEN DO;
      XCATCH=SUM(9000,100*XTNEXREG,XSERVAFF);
      IF XOCONUS=1 THEN XCATCH=SUM(9400,XSERVAFF);
      IF XOCONUS=2 THEN XCATCH=SUM(9500,XSERVAFF);
     IF XOCONUS=3 THEN XCATCH=SUM(9600, XSERVAFF);
   END;
RUN;
```

F.19 WEIGHTING\CREPWT.SAS - Calculate combined replicate weights - Annual.

```
******************
* PROGRAM: CREPWT.SAS
          2013 DOD QUARTERLY HEALTH CARE SURVEY
* PURPOSE: CALCULATE COMBINED ANNUAL REPLICATE WEIGHTS FOR DOD SURVEY
           - New Weights REQUESTED BY DON JANG.
* CREATED: 12/19/2001 by Esther M Friedman
* UPDATED: 02/09/2006 by Haixia Xu for 2005 annual weighting - new weights
          10/10/2006 by Haixia Xu for 2006 annual weighting - new weights
           10/09/2007 by Haixia Xu for 2007 annual weighting - new weights
          10/09/2008 by Haixia Xu for 2008 annual weighting - new weights
          10/04/2010 by Haixia Xu for 2010 annual weighting - new weights
           10/03/2011 by Sabrina R.for 2011 annual weighting - new weights
          07/18/2013 by Karlesha R. for 2013 annual weighting - new weights
* INPUTS: framea.sas7bdat - Quarterly frame files

* REPWTP.sas7bdat - Quarterly new weights
* OUTPUTS: crepwt.sd2 - Combined annual replicates for new weights
* NOTES: FY 2013 is the first time Q3t and Q4 were not used in calculating
        Annual Weights. Data for these two quarters were not collected to
        budget cuts.
%let year=2013;
/*repwtp.sas7bdat*/
LIBNAME IN1 "L:\Q1FY&year.t\data\afinal";
LIBNAME IN2 "L:\Q2FY&year.t\data\afinal";
LIBNAME IN3 "L:\Q3FY&year.\data\afinal";
/*framea.sas7bdat*/
LIBNAME INf1 "L:\Q1FY&year.\data\afinal";
LIBNAME INf2 "L:\Q2FY&year.\data\afinal";
LIBNAME INf3 "L:\Q3FY&year.\data\afinal";
/* crepwt.sas7bdat */
LIBNAME OUT "L:\&year.\Data";
%include "L:\Q1FY&year.\programs\weighting\newweights\design_effects_unequal_weights.sas";
OPTIONS PS=79 LS=132 COMPRESS=no errors=0 NOCENTER mlogic mprint symbolgen;
title1 "Program:CREPWT.SAS";
title2 "PURPOSE: CREATES ANNUAL COMBINED WEIGHT AND COMBINED REPLICATED WEIGHT - New weights";
* MERGE THE NEW (with trickles) QUARTERLY WEIGHT FILES
%macro dogrt(grt=);
data repwtq&qrt.;
set in&qrt..repwtp(keep=mprid fnstatus postcell bwt fwrwt1-fwrwt60);
quarter=&qrt.;
label quarter = 'Dod quarter indicator';
format _all_;
run;
proc sort data=repwtq&qrt.;
by mprid;
run;
%mend dogrt;
%doqrt(qrt=1);
%doart(art=2);
%dogrt(grt=3);
*merge the new quarterly files;
data repwt;
```

```
set repwtq1 repwtq2 repwtq3;
by mprid;
run;
********
* CREATE THE ANNUAL WEIGHTS
********************
* Use Equal Weighting Method: Divide each quarterly weight by 3;
data repwt;
 set repwt;
 cfwt=fwrwt/3;
 label cfwt= 'combined annual NEW wt';
******
* CHECK NEW ANNUAL WEIGHTS
*****************
title3 "Combined replicate file";
proc freq data=repwt;
tables quarter fnstatus fnstatus*quarter/list missing;
run;
title3 "Weighted using fwrwt - quarterly new wt";
proc freq data=repwt;
tables quarter fnstatus fnstatus*quarter/list missing;
weight fwrwt;
run;
title3 "Weighted using cfwt - combined annual new wt";
proc freq data=repwt;
tables quarter fnstatus fnstatus*quarter/list missing;
weight cfwt;
run;
title3 'Checks for cfwt and fwrwt for fnstatus=11';
Proc print data=repwt (obs=200) noobs;
var quarter cfwt fwrwt;
where fnstatus=11;
run;
title3 'Checks for fwrwt by quarter for fnstatus=11';
proc sort data=repwt;
by quarter;
run;
proc means data=repwt n sum mean min max Q1 median Q3;
by quarter;
where fnstatus=11;
run;
title3 'Checks for cfwt for fnstatus=11';
proc univariate data=repwt;
var cfwt;
where fnstatus=11;
run;
options compress=yes;
*******
* CREATE THE REPLICATE WEIGHTS
********************
data crepwt_newwt ( drop = rep );
set repwt;
array repwt[60] fwrwt1 - fwrwt60;
array annual_repwt[180] cfwt1 - cfwt180;
do rep = 1 to 180;
if 1 <= rep <= 60 then
  do;
  if quarter in (2,3) then
     annual_repwt[rep] = fwrwt;
  else
```

```
annual_repwt[rep] = repwt[rep];
  end;
else if 61 <= rep <= 120 then
  do;
  if quarter in (1,3) then
     annual_repwt[rep] = fwrwt;
   else
     annual_repwt[rep] = repwt[rep - 60];
  end;
else if 121 <= rep <= 180 then
  do;
  if quarter in (1, 2) then
     annual_repwt[rep] = fwrwt;
   else
     annual_repwt[rep] = repwt[rep - 120];
   end;
    annual_repwt[rep] = annual_repwt[rep]/3;
end;*replicate loop;
run;
* Check the new cfwts;
title3 'Checks for the sum of the new cfwts';
PROC MEANS DATA=crepwt_newwt n sum;
VAR cfwt cfwt1-cfwt180;
output out=sums sum(cfwt cfwt1-cfwt180) = cfwt cfwt1-cfwt180;
RUN;
proc transpose data=sums out=t_sums;
VAR cfwt cfwt1-cfwt180;
run;
proc univariate data=t_sums normal ;
var col1;
*************************
* Output the combined annual replicate weights - Old and New weights
************
* Label wts;
%MACRO LABWT;
   %DO J = 1 %TO 180;
        LABEL CFWT&J. = "Combined Replicated NEW Weight &J.";
%MEND LABWT;
data out.crepwt;
set crepwt_newwt;
if _N_=1 then do;
 label CFWT = "Combined annual NEW Weight"
%LABWT;
end;
run;
title3 'Contents of crepwt.sd2';
proc contents data=out.crepwt ;
run;
******************
*** Calculate the Design Effects
*** As per Nancy and Sonya's requests, check the deff for the annual wts to see
*** how the quarterly weight affects the annual estimates.
*******************************
%macro mergefiles(qrt=);
data frame&grt.;
set inf&qrt..framea(keep=mprid enbgsmpl tnexreg d_health com_geo servaff);
***facility TNEX region***;
length TNEX_grp $1;
if d_health in ('00', '13', '14', '15') then TNEX_grp='0'; else if d_health in ('17', '01', '05') then TNEX_grp='N';
```

```
else if d_health in ('18','04') then TNEX_grp='S';
else if d_health in ('19','08','11') then TNEX_grp='W';
*Correct the TNEX regions for com_geo 0047, 9001, 9002, 9003, 9004:
All the cases in the same com_geo should be in the same TNEX region, which is the region of the
com_geo;
if COM_GEO = '0047' then TNEX_grp='S';
else if COM_GEO = '9001' then TNEX_grp='N';
else if COM_GEO = '9002' then TNEX_grp='S';
else if COM_GEO = '9003' then TNEX_grp='W';
else if COM_GEO = '9004' then TNEX_grp='0';
if tnex_grp in ('N', 'S', 'W') then conus=1;
else if tnex_grp ='0' then conus=0;
run;
title3 "Check the construction TNEX_grp, conus for quarter &qrt.";
proc freq data=frame&qrt.;
tables TNEX_grp*d_health conus*tnex_grp/missing list;
proc sort data=in&grt..repwtp(keep=mprid) out=repwt; by mprid; run;
proc sort data=frame&qrt.; by mprid; run;
data merged&grt.;
merge repwt(in=A) frame&qrt.(in=B);
by mprid;
if a and b;
run;
%mend mergefiles;
%mergefiles(qrt=1);
%mergefiles(grt=2);
%mergefiles(qrt=3);
data merged123;
set merged1 merged2 merged3;
by mprid;
run;
proc sort data=out.crepwt(keep=mprid fnstatus bwt fwrwt cfwt) out=crepwt;
by mprid;
run;
data merged;
merge crepwt(in=A) merged123(in=B);
by mprid;
if a and b;
run;
**create dataset of completes only;
data postwt_fnl;
set merged;
where fnstatus=11;
run;
%design_effects_unequal_weights ( postwt_fnl, enbgsmpl, cfwt, deff_overall, deff_enb );
%design_effects_unequal_weights ( postwt_fnl, tnexreg, cfwt, deff_overall, deff_tnexreg );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp, cfwt, deff_overall, deff_tnexgrp );
%design_effects_unequal_weights ( postwt_fnl, TNEX_grp servaff, cfwt, deff_overall,
deff_TNEXservaff );
*** For Overall ***;
title3 'Design Effects Overall';
proc print data = deff_overall;
run;
*** For ENBGSMPL Groups ***;
title3 'Design Effects for ENBGSMPL';
proc print data= deff_enb;
```

```
sum _freq_;
run;
*** For Beneficiary TNEX Region ***;
title3 'Design Effects for TNEXREG';
proc print data= deff_tnexreg;
sum _freq_;
run;
*** For Facility TNEX region ***;
title3 "Design Effects for Facility's TNEX region";
proc print data= deff_tnexgrp;
sum _freq_;
run;
*** For conus region ***;
title3 "Design Effects for conus";
proc print data= deff_conus;
sum _freq_;
*** For Service Affiliation for the facility ***;
title3 "Design Effects for Facility's Service Affiliation";
proc print data= deff_servaff;
sum _freq_;
run;
*** For TNEX_grp*Servaff ***;
title3 "Design Effects for TNEX_grp by Servaff";
proc print data= deff_TNEXservaff;
sum _freq_;
run;
************* The End *************;
```

F.20.A Response_Rate\ANNUAL_RR.SAS - Combine Q1-Q3 and annual Response Rates into one excel file.

```
*******************
* PROGRAM: ANNUAL_RR.SAS
       DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE: Combine Q1-Q3 and Annual Response_Rates.xls files
         into one file called Response_Rates_Annual.xls.
* WRITTEN: 03/15/2005 BY KEITH RATHBUN
* MODIFIED:
* INPUT: 1) RESPONSE_RATES.XLS files (Q1-Q3 and Annual)
         2) EMPTY_ANNUAL.XLS file (empty template)
 OUTPUT: 1) RESPONSE RATES ANNUAL.XLS
* INCLUDES: None
* NOTES:
* 1) This program must be run in BATCH mode. DO NOT modify the directory
   references to be hard-wired to support interactive use.
* 2) For FY2012, dropping HAS_EMAIL
* 3) From FY2013: We donot receiving any Q3t and Q4 Weights. Annual Wt and RR
    are calculated using Q1t, Q2t and Q3 quarters.
OPTIONS PS=79 LS=132 COMPRESS=YES ERRORS=1 NOXWAIT NOCENTER mprint mlogic symbolgen;
LIBNAME LIBRARY "..\..\DATA\FMTLIB";
******************
* Assign Q1-Q3 and annual spreadsheet file names and year.
                      %LET FILE1 = ..\..\.\Q1FY2013t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE2 = ..\..\..\Q2FY2013t\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE3 = ..\..\Q3FY2013\PROGRAMS\RESPONSE_RATE\RESPONSE_RATES.XLS;
%LET FILE4 = RESPONSE_RATES.XLS;
LET YEAR = 2013;
TITLE1 "Program: ANNUAL_RR.SAS";
TITLE2 "Purpose: Combine Q1-Q3 and Annual Response Rate XLS files";
************************
* Assign sheetnames and establish global variables.
*********************
* All of the response_rates.xls files must be populated with the following
* sheetnames (generated by TABLE02.SAS):
%LET DSN1 = TABLE02A;
*%LET DSN2 = XREGION;
*%LET DSN2 = HAS_EMAIL;
%LET DSN3 = XOCONUS;
%LET DSN4 = USA;
%LET DSN5 = SEXSMPL;
%LET DSN6 = ENBGSMPL;
%LET DSN7 = CACSMPL;
%LET DSN8 = PATCAT;
%LET DSN9
        = SERVAFF;
%LET DSN10 = SVCSMPL;
%LET DSN11 = XTNEXREG;
%LET DSN12 = PATCATSVCSMPL;
%LET DSN13 = PATCATSEXSMPL;
%LET DSN14 = XTNEXREGCACSMPL;
*%LET DSN15 = PATCATHAS_EMAIL;
*%LET DSN16 = USAPATCATHAS_EMAIL;
************
* Macro used to read Q1-Q3 and annual spreadsheet files.
**********************
%MACRO READXLS(DSN=, NUMDOM=);
```

```
%IF &NUMDOM LE 1 %THEN %DO; * Read 3 columns in sheet;
     FILENAME INDATA DDE "excel &DSN!r5c1:r9999c3";
  %END;
  %ELSE %IF &NUMDOM = 2 %THEN %DO; * Read 4 columns in sheet;
     FILENAME INDATA DDE "excel &DSN!r5c1:r9999c4";
  %ELSE %IF &NUMDOM = 3 %THEN %DO; * Read 5 columns in sheet;
     FILENAME INDATA DDE "excel &DSN!r5c1:r9999c5";
  %END;
  DATA &DSN.&I;
     INFILE INDATA DLM='09'X NOTAB LRECL=500 PAD MISSOVER DSD;
     LENGTH DOMAIN1-DOMAIN3 $40;
     LENGTH DSN $30;
     %IF &NUMDOM = 0 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
                   : 4.1
: 4.1;
             RR
              RRW
        DOMAIN1 = "TABLE02A";
     %END;
     %IF &NUMDOM = 1 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
            RR : 4.1
                    : 4.1;
             RRW
     %END;
     %ELSE %IF &NUMDOM = 2 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
              DOMAIN2 : $CHAR40.
                   : 4.1
              RR
                    : 4.1;
              RRW
     %END:
     %ELSE %IF &NUMDOM = 3 %THEN %DO;
        INPUT DOMAIN1 : $CHAR40.
              DOMAIN2 : $CHAR40.
              DOMAIN3 : $CHAR40.
                   : 4.1
: 4.1;
              RR
              RRW
     %END;
     NUMDOM = &NUMDOM;
     FNUM = &I;
     DSN = "&DSN";
  RUN;
%MEND READXLS;
***********************
* Read Q1-Q3 and annual spreadsheet files.
******************************
%MACRO READIT;
  %GLOBAL I;
  DO I = 1 TO 4; /*5*/
     X "START &&FILE&I";
     %READXLS(DSN=&DSN1, NUMDOM=0);
*%READXLS(DSN=&DSN2, NUMDOM=1);
     %READXLS(DSN=&DSN3, NUMDOM=1);
     %READXLS(DSN=&DSN4, NUMDOM=1);
     %READXLS(DSN=&DSN5, NUMDOM=1);
%READXLS(DSN=&DSN6, NUMDOM=1);
     %READXLS(DSN=&DSN7, NUMDOM=1);
     %READXLS(DSN=&DSN8, NUMDOM=1);
     %READXLS(DSN=&DSN9, NUMDOM=1);
%READXLS(DSN=&DSN10, NUMDOM=1);
     %READXLS(DSN=&DSN11, NUMDOM=1);
     %READXLS(DSN=&DSN12, NUMDOM=2);
         %READXLS(DSN=&DSN13, NUMDOM=2);
     %READXLS(DSN=&DSN14, NUMDOM=2);
     *%READXLS(DSN=&DSN15, NUMDOM=2);
         *%READXLS(DSN=&DSN16, NUMDOM=3);
     *******************
     * Quit spreadsheet application.
     ************************
     FILENAME CMDS DDE "EXCEL SYSTEM";
     DATA _NULL_;
        FILE CMDS;
```

```
PUT '[QUIT]';
     RUN;
  %END;
%MEND READIT;
%READIT;
*************************
* Macro used to merge the Q1-Q3 and annual spreadsheet files by DOMAIN(s).
*******************
%MACRO MERGEIT(DSN=, NUMDOM=);
  %IF &NUMDOM LE 1 %THEN %DO;
      PROC SORT DATA=&DSN.1; BY DOMAIN1; RUN;
      PROC SORT DATA=&DSN.2; BY DOMAIN1; RUN;
      PROC SORT DATA=&DSN.3; BY DOMAIN1; RUN;
      PROC SORT DATA=&DSN.4; BY DOMAIN1; RUN;
      /*PROC SORT DATA=&DSN.5; BY DOMAIN1; RUN;*/
  %END;
   %ELSE %IF &NUMDOM = 2 %THEN %DO;
      PROC SORT DATA=&DSN.1; BY DOMAIN1 DOMAIN2; RUN;
      PROC SORT DATA=&DSN.2; BY DOMAIN1 DOMAIN2; RUN;
      PROC SORT DATA=&DSN.3; BY DOMAIN1 DOMAIN2; RUN;
      PROC SORT DATA=&DSN.4; BY DOMAIN1 DOMAIN2; RUN;
      /*PROC SORT DATA=&DSN.5; BY DOMAIN1 DOMAIN2; RUN; */
  %END;
   %ELSE %IF &NUMDOM = 3 %THEN %DO;
      PROC SORT DATA=&DSN.1; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
      PROC SORT DATA=&DSN.2; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
      PROC SORT DATA=&DSN.3; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
      PROC SORT DATA=&DSN.4; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;
      /*PROC SORT DATA=&DSN.5; BY DOMAIN1 DOMAIN2 DOMAIN3; RUN;*/
   %END;
  DATA MERGED_&DSN;
     MERGE &DSN.1(RENAME=(RR=RR1 RRW=RRW1))
           &DSN.2(RENAME=(RR=RR2 RRW=RRW2))
           &DSN.3(RENAME=(RR=RR3 RRW=RRW3))
           &DSN.4(RENAME=(RR=RR4 RRW=RRW4))
           /*&DSN.5(RENAME=(RR=RR5 RRW=RRW5))*/;
     %IF &NUMDOM LE 1 %THEN %DO;
         BY DOMAIN1;
     %END;
     %ELSE %IF &NUMDOM = 2 %THEN %DO;
         BY DOMAIN1 DOMAIN2;
     % FIND:
     %ELSE %IF &NUMDOM = 3 %THEN %DO;
        BY DOMAIN1 DOMAIN2 DOMAIN3;
     %END;
  RUN;
%MEND MERGEIT;
***********************
* Merge the Q1-Q3 and annual spreadsheet files by DOMAIN(s).
%MERGEIT(DSN=&DSN1, NUMDOM=0);
*%MERGEIT(DSN=&DSN2, NUMDOM=1);
%MERGEIT(DSN=&DSN3, NUMDOM=1);
%MERGEIT(DSN=&DSN4, NUMDOM=1);
%MERGEIT(DSN=&DSN5, NUMDOM=1);
%MERGEIT(DSN=&DSN6, NUMDOM=1);
%MERGEIT(DSN=&DSN7, NUMDOM=1);
%MERGEIT(DSN=&DSN8, NUMDOM=1);
%MERGEIT(DSN=&DSN9, NUMDOM=1);
%MERGEIT(DSN=&DSN10, NUMDOM=1);
%MERGEIT(DSN=&DSN11, NUMDOM=1);
%MERGEIT(DSN=&DSN12, NUMDOM=2);
%MERGEIT(DSN=&DSN13, NUMDOM=2);
%MERGEIT(DSN=&DSN14, NUMDOM=2);
*%MERGEIT(DSN=&DSN15, NUMDOM=2);
*%MERGEIT(DSN=&DSN16, NUMDOM=3);
```

```
* Macro used to write the combined annual spreadsheet file for each DOMAIN/DSN.
%MACRO WRITEXLS(DSN=, NUMDOM=);
  DATA NULL;
     SET MERGED_&DSN;
      ******************
      * Add values for each DOMAIN to each sheet.
      ***********************
     %IF &NUMDOM LE 1 %THEN %DO;
        /*FILENAME OUTDATA DDE "excel|&DSN!rlc1:r9999c11";*/
           FILENAME OUTDATA DDE "excel &DSN!r1c1:r9999c9";
        FILE OUTDATA DLM='09'X NOTAB LRECL=500;
        LENGTH OLINE $50;
        IF _N_ = 1 THEN DO;
           OLINE = "RESPONSE RATES FOR &YEAR";
           PUT OLINE;
            OLINE = "FOR DOMAIN = &DSN";
           PUT OLINE /;
           H1 = "DOMAIN";
                              H2 = "Q1 RR"; H3 = "Q1 RRW";
           H4 = "Q2 RR"; H5 = "Q2 RRW";

H6 = "Q3 RR"; H7 = "Q3 RRW";

*H8 = "Q4 RR"; *H9 = "Q4 RRW";
           H10 = "Annual RR"; H11 = "Annual RRW";
           PUT H1 : $CHAR50.
               H2 : $CHAR50.
               H3 : $CHAR50.
               H4 : $CHAR50.
H5 : $CHAR50.
               H6 : $CHAR50.
               H7 : $CHAR50.
               /*H8 : $CHAR50.
               H9 : $CHAR50.*/
               H10 : $CHAR50.
               H11 : $CHAR50.
        END;
        PUT DOMAIN1: $CHAR40.
            RR1
                   : 4.1
            RRW1
                  : 4.1
                  : 4.1
: 4.1
            RR2
            RRW2
                   : 4.1
            RR3
            RRW3 : 4.1
            RR4
                   : 4.1
                  : 4.1
            RRW4
                   : 4.1
           /*RR5
            RRW5 : 4.1*/
     %END;
      %ELSE %IF &NUMDOM = 2 %THEN %DO;
        /*FILENAME OUTDATA DDE "excel|&DSN!rlc1:r9999c12";*/
            FILENAME OUTDATA DDE "excel &DSN!r1c1:r9999c10";
        FILE OUTDATA DLM='09'X NOTAB LRECL=500;
        LENGTH OLINE $50;
        IF _N_ = 1 THEN DO;
            OLINE = "RESPONSE RATES FOR &YEAR";
           PUT OLINE;
           OLINE = "FOR DOMAIN = &DSN";
           PUT OLINE /;
           H1 = "DOMAIN1";
                             H2 = "DOMAIN2";
           H3 = "Q1 RR"; H4 = "Q1 RRW";

H5 = "Q2 RR"; H6 = "Q2 RRW";

H7 = "Q3 RR"; H8 = "Q3 RRW";

*H9 = "Q4 RR"; *H10 = "Q4 RRW";
           H11 = "Annual RR"; H12 = "Annual RRW";
           PUT H1 : $CHAR50.
H2 : $CHAR50.
               H3 : $CHAR50.
               H4 : $CHAR50.
H5 : $CHAR50.
               H6 : $CHAR50.
               H7 : $CHAR50.
               H8 : $CHAR50.
```

```
H10 : $CHAR50.*/
               H11 : $CHAR50.
               H12 : $CHAR50.
        END;
        PUT DOMAIN1: $CHAR40.
            DOMAIN2: $CHAR40.
            RR1
                  : 4.1
            RRW1
                   : 4.1
                  : 4.1
            RR2
            RRW2
                  : 4.1
            RR3
                   : 4.1
                  : 4.1
            RRW3
            RR4
                   : 4.1
                  : 4.1
            RRW4
           /*RR5
                   : 4.1
                  : 4.1*/
            RRW5
      %END;
      %ELSE %IF &NUMDOM = 3 %THEN %DO;
        /*FILENAME OUTDATA DDE "excel|&DSN!rlc1:r9999c13";*/
               FILENAME OUTDATA DDE "excel &DSN!rlc1:r9999c11";
        FILE OUTDATA DLM='09'X NOTAB LRECL=500;
        LENGTH OLINE $50;
        IF _N_ = 1 THEN DO;
           OLINE = "RESPONSE RATES FOR &YEAR";
           PUT OLINE;
           OLINE = "FOR DOMAIN = &DSN";
           PUT OLINE /;
           H1 = "DOMAIN1";
                              H2 = "DOMAIN2"; H3 = "DOMAIN3";
           H4 = "Q1 RR";
                             H5 = "Q1 RRW";
           H6 = "Q2 RR";
                              H7 = "Q2 RRW";
           H8 = "Q3 RR"; H9 = "Q3 RRW";
*H10 = "Q4 RR"; *H11 = "Q4 RRW";
           H12 = "Annual RR"; H13 = "Annual RRW";
           PUT H1 : $CHAR50.
H2 : $CHAR50.
               H3 : $CHAR50.
               H4 : $CHAR50.
               H5 : $CHAR50.
H6 : $CHAR50.
               H7 : $CHAR50.
               H8 : $CHAR50.
H9 : $CHAR50.
             /*H10 : $CHAR50.
               H11 : $CHAR50.*/
               H12 : $CHAR50.
               H13 : $CHAR50.
        END;
        PUT DOMAIN1: $CHAR40.
            DOMAIN2: $CHAR40.
            DOMAIN3: $CHAR40.
                  : 4.1
: 4.1
            RR1
            RRW1
                   : 4.1
            RR2
                  : 4.1
            RRW2
            RR3
                   : 4.1
            RRW3
                  : 4.1
            RR4
                   : 4.1
                  : 4.1
            RRW4
          /* RR5
                   : 4.1
                  : 4.1*/
            RRW5
     %END;
  RUN;
%MEND;
* Copy empty template file to the combined annual response rate spreadsheet
* and start the XLS file.
```

/*H9 : \$CHAR50.

```
X "COPY EMPTY_ANNUAL.XLS RESPONSE_RATES_ANNUAL.XLS";
X "START RESPONSE_RATES_ANNUAL.XLS";
********************
* Write the combined annual spreadsheet file for each DOMAIN/DSN.
%WRITEXLS(DSN=&DSN1, NUMDOM=0);
*%WRITEXLS(DSN=&DSN2, NUMDOM=1);
%WRITEXLS(DSN=&DSN3, NUMDOM=1);
%WRITEXLS(DSN=&DSN4, NUMDOM=1);
%WRITEXLS(DSN=&DSN5, NUMDOM=1);
%WRITEXLS(DSN=&DSN6, NUMDOM=1);
%WRITEXLS(DSN=&DSN7, NUMDOM=1);
%WRITEXLS(DSN=&DSN8, NUMDOM=1);
%WRITEXLS(DSN=&DSN9, NUMDOM=1);
%WRITEXLS(DSN=&DSN10, NUMDOM=1);
%WRITEXLS(DSN=&DSN11, NUMDOM=1);
%WRITEXLS(DSN=&DSN12, NUMDOM=2);
%WRITEXLS(DSN=&DSN13, NUMDOM=2);
%WRITEXLS(DSN=&DSN14, NUMDOM=2);
*%WRITEXLS(DSN=&DSN15, NUMDOM=2);
*%WRITEXLS(DSN=&DSN16, NUMDOM=3);
*****
* Quit spreadsheet application.
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[QUIT]';
RUN;
```

F.20.B Response_Rate\TABLE02.SAS - Calculate the annual Response Rates.

```
* PROGRAM: TABLE02.SAS
        DOD HEALTH CARE SURVEY ANALYSIS (06663.300)
* PURPOSE: BUILD TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
          Quarterly DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 11/09/1999 BY KEITH RATHBUN
* MODIFIED:
* 1) 12/14/2000, Keith Rathbun - Added printing of weighted (WN) and
    unweighted (SN) population sizes. Also, Update for quarterly survey
     to use BWT instead of BWT99 (generalized variable name for ease of
    maintenance).
 2) 02/01/2001, Keith Rathbun - Added the PERIOD parameter.
* 3) 01/30/2002, Esther Friedman - added nested macro so it would run
    for all 4 quarters trickle files.
* 4) 11/16/2004, Haixia Xu for Q3, 2004 RR
               - Changed FNSTATUS from 30 to 31, SN3->SN31, WN3->WN31
               - Use MERGEQ.SD2 as the input data
               - Produce the RR for servaff and xtnexreg
* 5) 01/18/2005, Keith Rathbun - Added CREATXLS macro.
* LAST UPDATED:
    10/24/2012, Sabrina R.- Updated for 2012 Annual
* INPUT:
           1) MERGEQ.sas7bdat (All quarters)
 INCLUDES: 1) TABLE02.IN1
           2) TABLE02.IN2
* NOTES:
^{\star} 1) This program must be run in BATCH mode. DO NOT modify the directory
    references to be hard-wired to support interactive use.
 2) If you add a new domain combination, you will need to update the
     EMPTY.XLS file to have a new sheet with the same name as the domain
    variable(s) combination.
************************
OPTIONS PS=79 LS=132 COMPRESS=YES ERRORS=1 NOXWAIT NOCENTER NOFMTERR;* mprint mlogic symbolgen;
%let year=2013;
LIBNAME in1t
                "..\..\Q1FY&year.t\DATA\AFINAL"; * Q1 mergeq with late response;
LIBNAME in2t
                "..\..\Q2FY&year.t\DATA\AFINAL"; * Q2 mergeq with late response;
                "..\..\Q3FY&year.\DATA\AFINAL"; * Q3 mergeq with late response;
LIBNAME in3
               "K:\Q1FY&year."; * Q1 sample;
"K:\Q2FY&year."; * Q2 sample;
LIBNAME inr1
LIBNAME inr2
                "K:\Q3FY&year."; * Q3 sample;
LIBNAME inr3
LIBNAME LIBRARY "..\..\DATA\FMTLIB";
TITLE1 "Program: TABLE02.SAS";
TITLE2 "Purpose: Compute response rates by DOMAIN";
%LET OFILES = ..\..\DATA\Response_Rate\;
%LET QUARTER = 2013 Combined Annual;
%LET DATE
          = 07-22-2013;
%LET TASKNUM = 06663.300;
proc format;
 VALUE $ENBGSm
          '01' = "Active duty"
          '02' = "Active duty fam, Prime, civ PCM"
          '03' = "Active duty fam, Prime, mil PCM"
          '04' = "Active duty fam, non-enrollee"
          '05' = "Retired, <65, civ PCM'
          '06' = "Retired, <65, mil PCM"
          '07' = "Retired, <65, non-enrollee"
```

```
'08' = "Retired,65+,enrolled"
         '10' = "Retired,65+,non-enrollee"
         '11' = "TRICARE Reserve Select";
 VALUE TNEX
   . = "Missing Data"
   1 = "North"
   2 = "South"
   3 = "West"
   4 = "Overseas" ;
RIIN;
********************
* Create ebg_com
%macro create_ebg(qrt=, q=);
DATA MERGEQ&qrt.;
SET in&qrt..MERGEQ;
/*01/31/2007 by H.Xu.
As per Nancy's suggestion, collapse 09 with 08, since 09 has two few beneficiaries*/
if enbgsmpl = '09' then enbgsmpl='08';
format enbgsmpl $enbgsm.;
RUN;
proc sort data=mergeg&QRt; by mprid;run;
%mend;
%create_ebg(qrt=1t,q=1);
%create_ebg(qrt=2t,q=2);
%create_ebg(qrt=3, q=3);
/*Combine 3 quarters*/
DATA MERGERR;
  SET MERGEQ1t MERGEQ2t MERGEQ3;
PROC FREQ DATA=MERGERR;
  TABLES PATCAT*FNSTATUS
         PATCAT RACEETHN PATCAT*RACEETHN PATCAT*SVCSMPL /MISSING LIST;
RUN;
%MACRO PROCESS(INPT=, FORM=);
  *****************
  * Process OVERALL Summary of response rates
  DATA _NULL_;
     SET &INPT END=FINISHED;
     IF _N_ = 1 THEN DO;
       SN = 0;
       SN1 = 0;
SN11 = 0;
       SN12 = 0;
        SN2 = 0;
        SN31 = 0;
       SN4 = 0;
        SN41 = 0;
        SN42 = 0;
        WN = 0;
       WN1 = 0;
        WN11 = 0;
        WN12 = 0;
       WN2 = 0;
        WN31 = 0;
       WN4 = 0;
        WN41 = 0;
       WN42 = 0;
     * Accumulate group 1 weighted and unweighted counts.
     SN + 1;
     WN + BWT;
```

```
IF FNSTATUS IN(11,12) THEN DO;
     SN1 + 1;
     WN1 + BWT;
     IF FNSTATUS = 11 THEN DO;
       SN11 + 1;
       WN11 + BWT;
     END:
     ELSE DO;
       SN12 + 1;
       WN12 + BWT;
     END;
  END;
  ************
  * Accumulate group 2 weighted and unweighted counts.
  *************
  ELSE IF FNSTATUS = 20 THEN DO;
     SN2 + 1;
     WN2 + BWT;
  END;
  ************
  * Accumulate group 3 weighted and unweighted counts.
  ******************
  ELSE IF FNSTATUS = 31 THEN DO;
     SN31 + 1;
     WN31 + BWT;
  END;
  ^{\star} Accumulate group 4 weighted and unweighted counts.
  ELSE IF FNSTATUS IN(41,42) THEN DO;
     SN4 + 1;
     WN4 + BWT;
     IF FNSTATUS = 42 THEN DO;
       SN42 + 1;
       WN42 + BWT;
     END;
     ELSE DO;
       SN41 + 1;
       WN41 + BWT;
     END;
  END;
  DROP I;
  RETAIN
     SN
     SN1
     SN11
     SN12
     SN2
     SN31
     SN4
     SN41
     SN42
     WN
     WN1
     WN11
     WN12
     WN2
     WN31
     WN4
     WN41
    WN42
  IF FINISHED THEN GO TO FINISHED;
  RETURN;
FINISHED:
 FILE "&OFILES.TABLE02&FORM..OUT" RECFM=V LRECL=9999;
 PUT; PUT; PUT;
 PUT @001 "TABLE 2: OVERALL RESPONSE RATES SUMMARY";
 PUT @001 "&DATE., TASK: &TASKNUM.";
 PUT;
```

```
PUT "SUMMARY OF GROUP COUNTS: FORM &FORM";
    PUT;
    PUT @131 "UNWEIGHTED COUNT"
      @181 "WEIGHTED COUNT"
    PUT @121 'FLR'
       @131 'FCR'
       @141 'FRR'
       @151 'POP'
       @171 'FLR'
       @181 'FCR'
       @191 'FRR'
       @201 'POP'
    %INCLUDE "TABLE02.IN2";
  RUN;
%MEND PROCESS;
**********************
* Process Single Domain where domain1 is the variable of interest.
%MACRO PROCESS1(DOMAIN1=, INPT=, FORM=);
  PROC SORT DATA=&INPT; BY &DOMAIN1; RUN;
  DATA _NULL_;
     SET &INPT;
     BY &DOMAIN1;
     FILE "&OFILES.&DOMAIN1..OUT" RECFM=V LRECL=9999;
     LENGTH VARNAME1 $8;
     LENGTH VARIABLE $30;
     CALL VNAME(&DOMAIN1, VARNAME1);
     VARIABLE = VARNAME1;
     %INCLUDE "TABLE02.IN1";
     IF LAST.&DOMAIN1 THEN DO;
       PUT @001 &DOMAIN1 @;
       %INCLUDE "TABLE02.IN2";
     END; * DOMAIN;
  RUN;
%MEND PROCESS1;
******************
* Process Double Domain where domain1/domain2 are the
* variables of interest.
%MACRO PROCESS2(DOMAIN1=, DOMAIN2=, INPT=, FORM=);
  PROC SORT DATA=&INPT; BY &DOMAIN1 &DOMAIN2; RUN;
  DATA _NULL_;
     SET &INPT;
     BY &DOMAIN1 &DOMAIN2;
     FILE "&OFILES.&DOMAIN1&DOMAIN2..OUT" RECFM=V LRECL=9999;
     LENGTH VARNAME1 $8;
     LENGTH VARNAME2 $8;
     LENGTH VARIABLE $30;
     CALL VNAME(&DOMAIN1, VARNAME1);
     CALL VNAME(&DOMAIN2, VARNAME2);
     VARIABLE = VARNAME1 || " " || VARNAME2;
     %INCLUDE "TABLE02.IN1";
     IF LAST.&DOMAIN2 THEN DO;
       PUT @001 &DOMAIN1 @;
       PUT @041 &DOMAIN2 @;
       %INCLUDE "TABLE02.IN2";
       SN
           = 0;
           = 0;
       SN1
       SN11 = 0;
       SN12 = 0;
       SN2
            = 0;
       SN31 = 0;
            = 0;
       SN4
       SN41 = 0;
```

```
SN42 = 0;
        WN = 0;
WN1 = 0;
        WN11 = 0;
        WN12 = 0;
        WN2 = 0;
        WN31 = 0;
        WN4 = 0;
        WN41 = 0;
        WN42 = 0;
     END; * DOMAIN;
  RUN;
%MEND PROCESS2;
*******************
* Process Triple Domain where domain1-3 are the variables of interest.
%MACRO PROCESS3(DOMAIN1=, DOMAIN2=, DOMAIN3=, INPT=, FORM=);
  PROC SORT DATA=&INPT; BY &DOMAIN1 &DOMAIN2 &DOMAIN3; RUN;
  DATA _NULL_;
     SET &INPT;
     BY &DOMAIN1 &DOMAIN2 &DOMAIN3;
     FILE "&OFILES.&DOMAIN1&DOMAIN2&DOMAIN3..OUT" RECFM=V LRECL=9999;
     LENGTH VARNAME1 $8;
     LENGTH VARNAME2 $8;
     LENGTH VARNAME3 $8;
     LENGTH VARIABLE $30;
     CALL VNAME(&DOMAIN1, VARNAME1);
     CALL VNAME(&DOMAIN2, VARNAME2);
     CALL VNAME(&DOMAIN3, VARNAME3);
     VARIABLE = VARNAME1 || " " || VARNAME2 || " " || VARNAME3;
     %INCLUDE "TABLE02.IN1";
     IF LAST.&DOMAIN3 THEN DO;
        PUT @001 &DOMAIN1 @;
        PUT @041 &DOMAIN2 @;
        PUT @081 &DOMAIN3 @;
        %INCLUDE "TABLE02.IN2";
        SN = 0;
SN1 = 0;
        SN11 = 0;
        SN12 = 0;
        SN2
             = 0;
        SN31 = 0;
        SN4 = 0;
        SN41 = 0;
        SN42 = 0;
        WN = 0;
        WN1 = 0;
        WN11 = 0;
        WN12 = 0;
        WN2 = 0;
        WN31 = 0;
        WN4 = 0;
        WN41 = 0;
        WN42 = 0;
     END; * DOMAIN;
  RIIN;
%MEND PROCESS3;
***Note that the ERROR message of division by zero may be printed out
in the log file due to no complete in some domains ***;
* PROCESS OVERALL RESPONSE RATE TABULATION - FORM A
%PROCESS(INPT=MERGERR, FORM=A);
*****************
* PROCESS SINGLE DOMAIN RESPONSE RATE TABULATION - FORM A
```

```
******************
**PROCESS1(DOMAIN1=xregion, INPT=MERGERR, FORM="FORM A");
*%PROCESS1(DOMAIN1=QFLAG, INPT=MERGERR, FORM="FORM A");
*%PROCESS1(DOMAIN1=has_email,INPT=MERGERR, FORM="FORM A");
\label{eq:procession} $$\operatorname{PROCESS1}(\operatorname{DOMAIN1=xoconus}, \quad \operatorname{INPT=MERGERR}, \quad \operatorname{FORM="FORM A"});$
%PROCESS1(DOMAIN1=USA,
                           INPT=MERGERR, FORM="FORM A");
%PROCESSI(DOMAINI=USA, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=sexsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=enbgsmpl, INPT=MERGERR, FORM="FORM A");
\label{eq:process1} $$\operatorname{PROCESS1}(\operatorname{DOMAIN1=cacsmpl}, \quad \operatorname{INPT=MERGERR}, \quad \operatorname{FORM="FORM A"})$;
%PROCESS1(DOMAIN1=patcat, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=servaff, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=svcsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS1(DOMAIN1=xtnexreg, INPT=MERGERR, FORM="FORM A");
* PROCESS DOUBLE DOMAIN RESPONSE RATE TABULATION - FORM A
*****************
%PROCESS2(DOMAIN1=patcat, DOMAIN2=svcsmpl, INPT=MERGERR, FORM="FORM A");
%PROCESS2(DOMAIN1=patcat, DOMAIN2=sexsmp1, INPT=MERGERR, FORM="FORM A");
%PROCESS2(DOMAIN1=xtnexreg, DOMAIN2=cacsmp1, INPT=MERGERR, FORM="FORM A");
**PROCESS2(DOMAIN1=PATCAT, DOMAIN2=HAS_EMAIL, INPT=MERGERR, FORM="FORM A");
*****************
* PROCESS TRIPLE DOMAIN RESPONSE RATE TABULATION - FORM A
********************
**PROCESS3(DOMAIN1=USA, DOMAIN2=patcat, DOMAIN3=has_email, INPT=MERGERR, FORM="FORM A");
**************************
* Copy empty template file to constructed variables spreadsheet and
* start the XLS file.
            ******************
X "COPY EMPTY.XLS RESPONSE_RATES.XLS";
X "START RESPONSE_RATES.XLS";
%MACRO CREATXLS(DSN=, NUMDOM=);
   \mbox{\scriptsize *} Read text files with response rates for each DOMAIN .
   *************************
   DATA &DSN(KEEP=DOMAIN1 DOMAIN2 DOMAIN3 RR RRW);
     INFILE "&OFILES.&DSN..OUT" LRECL=9999 RECFM=V;
     INPUT LINEIN $100 @; DROP LINEIN; *Skip over header records;
     LENGTH DOMAIN1-DOMAIN3 $40;
     IF _N_ GE 7 THEN DO;
        INPUT
           @001 DOMAIN1 $CHAR40.
           @041 DOMAIN2 $CHAR40.
           @081 DOMAIN3 $CHAR40.
           @121 FLR1
                      4.3
           @131 FCR1
                      4.3
           @141 FRR1 4.3
           @147 SN
                       7.0
           @171 FLR2 4.3
           @181 FCR2 4.3
           @191 FRR2 4.3
           @197 WN
                       7.0
        RR = FRR1*100;
        RRW = FRR2*100;
        OUTPUT;
     END;
   *******************
   * Add values for each DOMAIN to each sheet.
   ************************
   %IF &NUMDOM LE 1 %THEN %DO;
     FILENAME OUTDATA DDE "excel|&DSN!r1c1:r9999c3";
     DATA NULL;
        SET &DSN;
        FILE OUTDATA DLM='09'X NOTAB LRECL=500;
        LENGTH OLINE $50;
        IF _N_ = 1 THEN DO;
           OLINE = "RESPONSE RATES FOR &QUARTER";
```

```
PUT OLINE;
            OLINE = "FOR DOMAIN = &DSN";
            PUT OLINE /;
            H1 = "DOMAIN"; H2 = "RR"; H3 = "RRW";
            PUT H1 : $CHAR50.
                H2 : $CHAR50.
               H3 : $CHAR50.
         END;
         PUT DOMAIN1: $CHAR40.
            RR
                  : 4.1
                   : 4.1
            RRW
     RUN;
   %END;
   %ELSE %IF &NUMDOM = 2 %THEN %DO;
      FILENAME OUTDATA DDE "excel &DSN!r1c1:r9999c4";
      DATA NULL;
         SET &DSN;
         FILE OUTDATA DLM='09'X NOTAB LRECL=500;
        LENGTH OLINE $50;
         IF _N_ = 1 THEN DO;
            OLINE = "RESPONSE RATES FOR &QUARTER";
            PUT OLINE;
            OLINE = "FOR DOMAIN = &DSN";
            PUT OLINE /;
            H1 = "DOMAIN1"; H2 = "DOMAIN2"; H3 = "RR"; H4 = "RRW";
            PUT H1 : $CHAR50.
               H2 : $CHAR50.
                H3 : $CHAR50.
               H4: $CHAR50.
         END;
         PUT DOMAIN1: $CHAR40.
            DOMAIN2: $CHAR40.
                  : 4.1
            RR
            RRW
                   : 4.1
     RUN;
   %END;
   %ELSE %IF &NUMDOM = 3 %THEN %DO;
      FILENAME OUTDATA DDE "excel &DSN!rlc1:r9999c5";
      DATA _NULL_;
        SET &DSN;
         FILE OUTDATA DLM='09'X NOTAB LRECL=500;
        LENGTH OLINE $50;
         IF _N_ = 1 THEN DO;
            OLINE = "RESPONSE RATES FOR &QUARTER";
            PUT OLINE;
            OLINE = "FOR DOMAIN = &DSN";
            PUT OLINE /;
            H1 = "DOMAIN1"; H2 = "DOMAIN2"; H3 = "DOMAIN3"; H4 = "RR"; H5 = "RRW";
            PUT H1 : $CHAR50.
                H2 : $CHAR50.
                H3 : $CHAR50.
               H4 : $CHAR50.
               H5 : $CHAR50.
         END;
         PUT DOMAIN1 : $CHAR40.
            DOMAIN2 : $CHAR40.
             DOMAIN3 : $CHAR40.
                    : 4.1
            RR
                    : 4.1
            RRW
     RUN;
  %END;
%MEND CREATXLS;
%CREATXLS(DSN=TABLE02A, NUMDOM=0);
*CREATXLS(DSN=QFLAG, NUMDOM=1);
*%CREATXLS(DSN=HAS_EMAIL, NUMDOM=1);
%CREATXLS(DSN=XOCONUS, NUMDOM=1);
```

```
%CREATXLS(DSN=USA, NUMDOM=1);
%CREATXLS(DSN=SEXSMPL, NUMDOM=1);
%CREATXLS(DSN=enbgsmpl, NUMDOM=1);
%CREATXLS(DSN=cacsmpl, NUMDOM=1);
CREATXLS(DSN=PATCAT, NUMDOM=1);
%CREATXLS(DSN=SERVAFF, NUMDOM=1);
%CREATXLS(DSN=SVCSMPL, NUMDOM=1);
%CREATXLS(DSN=XTNEXREG, NUMDOM=1);
%CREATXLS(DSN=PATCATSVCSMPL, NUMDOM=2);
%CREATXLS(DSN=PATCATSEXSMPL, NUMDOM=2);
%CREATXLS(DSN=XTNEXREGcacsmpl, NUMDOM=2);
*%CREATXLS(DSN=PATCATHAS_EMAIL, NUMDOM=2);
*%CREATXLS(DSN=USAPATCATHAS_EMAIL, NUMDOM=3);
******************
* Quit spreadsheet application.
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
PUT '[QUIT]';
RUN;
****************** End ****************;
```

F.20.C Response_Rate\TABLE02.IN1 - Include file1 used to Calculate annual Response Rates.

```
***********************
* PROGRAM: TABLE02.IN1
* TASK:
       2002 DOD HEALTH CARE SURVEY ANALYSIS
* PURPOSE: COMMON CODE INCLUDE FILE USED TO BUILD
         TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
          2002 DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 01/08/99 BY KEITH RATHBUN
* 1) 5/17/1999, Keith Rathbun - Removed printing of the final location rate
    (FLR) and final completion rate (FCR).
* 2) 7/07/1999, Keith Rathbun - Added back printing of FLR
* 3) 12/14/2000, Keith Rathbun - Update for quarterly survey to use BWT
    instead of BWT99 (generalized variable name for ease of maintenance).
* 4) 11/16/2004 by Haixia Xu - Update the coding of FNSTATUS from 30 to 31.
                            SN3->SN31, WN3->WN31
^{\star} 5) 01/24/2005 by Keith Rathbun - Update PUT statements to accomodate up
    to 3 CHAR*40 domains.
*************************
IF _N_ = 1 THEN DO;
  PUT; PUT;
  PUT @001 "TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY";
  PUT @001 "&DATE., TASK: &TASKNUM.";
  PUT "SUMMARY OF GROUP COUNTS: " &FORM;
  PUT "VARIABLE = " VARIABLE;
  PIIT;
  PUT @131 "UNWEIGHTED COUNT"
     @181 "WEIGHTED COUNT"
  PUT @121 'FLR'
      @131 'FCR'
      @141 'FRR'
      @151 'POP'
      @171 'FLR'
      @181 'FCR'
      @191 'FRR'
      @201 'POP'
END;
IF FIRST.&DOMAIN1 THEN DO;
  SN = 0;
  SN1
       = 0;
  SN11 = 0;
  SN12 = 0;
  SN2
       = 0;
  SN31 = 0;
  SN4
        = 0;
  SN41 = 0;
  SN42 = 0;
  WN = 0;
WN1 = 0;
  WN11 = 0;
  WN12 = 0;
  WN2 = 0;
  WN31 = 0;
  WN4 = 0;
  WN41 = 0;
  WN42 = 0;
*************
* Accumulate group 1 weighted and unweighted counts
SN + 1;
WN + BWT;
IF FNSTATUS IN(11,12) THEN DO;
```

```
SN1 + 1;
  WN1 + BWT;
  IF FNSTATUS = 11 THEN DO;
    SN11 + 1;
    WN11 + BWT;
  ELSE DO;
    SN12 + 1;
    WN12 + BWT;
  END;
END;
*************
* Accumulate group 2 weighted and unweighted counts
**********
ELSE IF FNSTATUS = 20 THEN DO;
  SN2 + 1;
  WN2 + BWT;
END;
***************
* Accumulate group 3 weighted and unweighted counts
************
ELSE IF FNSTATUS = 31 THEN DO;
 SN31 + 1;
  WN31 + BWT;
* Accumulate group 4 weighted and unweighted counts
ELSE IF FNSTATUS IN(41,42) THEN DO;
  SN4 + 1;
  WN4 + BWT;
  IF FNSTATUS = 42 THEN DO;
    SN42 + 1;
    WN42 + BWT;
  END;
  ELSE DO;
    SN41 + 1;
    WN41 + BWT;
  END;
END;
DROP I;
RETAIN
  SN
  SN1
  SN11
  SN12
  SN2
  SN31
  SN4
  SN41
  SN42
  WN
  WN1
  WN11
  WN12
  WN2
  WN31
  WN4
  WN41
  WN42
 ;
```

F.20.D Response_Rate\TABLE02.IN2 - Include file2 used to Calculate annual Response Rates.

```
***********************
* PROGRAM: TABLE02.IN2
* TASK: QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS
* PURPOSE: COMMON CODE INCLUDE FILE USED TO BUILD
         TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY
          QUARTERLY DOD HEALTH CARE SURVEY FILE.
* WRITTEN: 01/08/99 BY KEITH RATHBUN
* 1) 5/17/1999, Keith Rathbun - Removed printing of the final location rate
    (FLR) and final completion rate (FCR).
* 2) 7/07/1999, Keith Rathbun - Added back printing of FLR
* 3) 12/14/2000, Keith Rathbun - Added printing of weighted (WN) and
   unweighted (SN) population sizes.
* 4) 11/17/2004 BY Haixia Xu - Made changes due to the different coding of FNSTATUS:
                           -Rewrite the formula used to calculating FRR1, FRR2
                           -SN3->SN31, WN3->WN31
\star 5) 01/24/2005 by Keith Rathbun - Update PUT statements to accomodate up
    to 3 CHAR*40 domains.
************************
  *Final Response Rate;
  FRR1 = SN11/(SN1 + SN2 + SN4*((SN1 + SN2)/(SN1 + SN2 + SN31)));
  FRR2 = WN11/(WN1 + WN2 + WN4*((WN1 + WN2)/(WN1 + WN2 + WN31)));
  *Final Location Rate;
  L = ((SN1 + SN2)/(SN1 + SN2 + SN31))*SN41;
  WL = ((WN1 + WN2)/(WN1 + WN2 + WN31))*WN41;
  FLR1 = (SN1 + SN2 + L)/(SN1 + SN2 + SN4*((SN1 + SN2)/(SN1 + SN2 + SN31)));
  FLR2 = (WN1 + WN2 + WL)/(WN1 + WN2 + WN4*((WN1 + WN2)/(WN1 + WN2 + WN31)));
  *Final Completion Rate;
  FCR1 = SN11/(SN1 + SN2 + L);
  FCR2 = WN11/(WN1 + WN2 + WL);
  PUT @121 FLR1 4.3
      @131 FCR1 4.3
@141 FRR1 4.3
      @147 SN 7.0
      @171 FLR2 4.3
      @181 FCR2 4.3
      @191 FRR2 4.3
      @197 WN 7.0
```

APPENDIX G

SAS CODE FOR STATISTICAL AND WEB SPECIFICATIONS FOR THE 2013 TRICARE BENEFICIARY REPORTS – QUARTERS I-III

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

G.1.A Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\STEP1Q.SAS - Create and recode variables used in Adult Beneficiary Reports - Run Quarterly.

```
PROJECT: DoD - Quarterly Adult Report Cards
PROGRAM: STEP1Q.SAS
PURPOSE: Create Dummy and Recode Variables used in Adult Report Card
                 Create a Female dummy variable
                 Create an Education dummy variable
                 Create 15 region dummies combining regions.
                        7 & 8 into region 8. That is, there
                        isn't a region 7 dummy.
                 Create 7 age dummy variables.
          We require the most desired code to be the highest value.
          Recode the dependent variables into:
                 1 - the least desirable value
                 2 - the 2nd least desirable value
                 3 - the most desirable value
                 . - missing
          Create 7 variables GROUP1 - GROUP7
                IF (XINS\_COV\ IN\ (1,2,6)\ AND\ H10004>=2)\ THEN\ GROUP1=1
                IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN GROUP2 = 1
                                     AND H10004 >= 2) THEN GROUP3 = 1
                IF (XENR\_PCM = 3,7)
                IF XINS_COV IN (3)
                                                       THEN GROUP4 = 1
                         /*JSO 08/24/2006, Deleted 4,5*/
                IF XBNFGRP = 1
                                                       THEN GROUP5 = 1
                IF XBNFGRP = 2
                                                        THEN GROUP6 = 1
                IF XBNFGRP IN (3,4)
                                                        THEN GROUP7 = 1
                GROUP8 is output for all beneficiaries
MODIFIED: 1) February 2001 By Keith Rathbun, Update for quarterly
             adult report cards. Removed permanent dataset ENTIRE.SD2.
          2) August 2\overline{0}01 By Keith Rathbun, Updated DSN and LIBNAME
             for 3rd quarter adult report cards.
          3) OCTOBER 2001 BY DANIELE BEAHM, Because there was no post-
             stratification done in Q3, changed all references of the
             POSTSTR variable to ADJ_CELL
          4) JANUARY 2002 BY DANIELE BEAHM, Modified group3 to include
             XENR_PCM
          5) April 2002 By Mike Scott, Updated variable names for 2002
          6) July 2002 By Mike Scott: See Note #2. Replaced variable
             S02S01 with H04075 (new health status variable), deleted
             code to recode S02S01 to H00077, and changed H00077/R00077
             rename/recode to H04075/R04075 rename/recode. The Hispanic/
             Latino variable is not present.
          7) January 2003 By Mike Scott, Changed ADJ_CELL to COM_SAMP.
          8) March 2003 By Mike Scott, Updated variable names for 2003
             survev.
          9) June 2003 By Mike Scott, Updated for Q2 2003.
         10) July 2003 By Mike Scott, Changed COM_SAMP to ADJ_CELL.
         11) October 2003 By Mike Scott, Updated for Q3 2003.
         12) January 2004 By Mike Scott, Updated for Q4 2003, and changed
             DAGEQY to FIELDAGE.
         13) March 2004 By Mike Scott, Updated for Q1 2004.
         14) April 2004 By Keith Rathbun, Removed reverse coding for
             H04031. 2004 survey question wording is 'Within 15 minutes'
             instead of "More than 15 Minutes". Added service affiliation
             variables so only one version of this program is needed to
             handle the consumer watch processing.
             15) June 2004 by Regina Gramss, Updated for Q2 2004.
         16) Sept 2004 by Regina Gramss, changed XRegion to xtenxreg, updated for Q3 2004.
         17) Jan 2005 by Regina Gramss, changed XTENXREG to XSERVREG to include
             service affiliation. Regions have been changed from 4 categories to 16.
         18) Apr 2005 by Regina Gramss, updated field names for 2005 data.
         19) Jul 2005 by Regina Gramss, updated for Q2 2005
         20) Oct 2005 by Regina Gramss, updated for Q3 2005
         21) Dec 2005 by Regina Gramss, updated for Q4 2005
         22) March 21, 2006 by Keith Rathbun, updated variable names
```

```
for Q2 FY 2006. Changed references to ADJ_CELL to be STRATUM.
            23) July 12, 2006 by Justin Oh, updated for Q3 FY 2006
            24) Aug 22, 2006 by Justin Oh, changed overseas to 3 regions.
                Regions have been changed from 16 categories to 24.
                Added XOCONUS to the Keep statement for Overseas classifications.
                Changed XSERVREG for Overseas (Europe, Pacific, Latin America).
                Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                       IF XINS_COV IN (3)
                                            THEN GROUP4 = 1
               Since only XINS_COV IN (1,2,3,6) is kept, (4,5) not needed.
            25) Oct 03, 2006 by Justin Oh, changed input data HCS063_1 to HCS064_1
               for Q4FY2006 reports.
            26) Apr 05, 2007 by Justin Oh, Added %LET BCHTYPE to select BCH types
                Benchmark OR PurchasedBenchmark.
            27) Apr 05, 2007 by Justin Oh, Added changes to select RC types
               ReportCards OR PurchasedReportCards.
            28) Apr 26, 2007 by Justin Oh, Added codes, variables for new
                reservists logic.
            29) May 15, 2007 by Justin Oh, Changed XINS_COV to NXNS_COV to assign
                Groups 1,3, and 4 for new reservists logic.
            30) Jul 30, 2007 by Justin Oh, Added added DBENCAT conditions to assign
                Groups All, 4, 5, and 6.
            31) Oct 02, 2007 by Justin Oh, changed input data HCS073_1 to HCS074_1
               for Q4FY2007 reports.
            32) January 10, 2008 by Keith Rathbun, updated variable names
               for Q1 FY 2008.
            33) Apr 11, 2008 by Justin Oh, changed input data HCS081_1 to HCS082_1
                for Q2FY2008 reports.
            34) June 13, 2008 by Keith Rathbun, changed input data HCS082_1 to HCS083_1
                for Q3FY2008 reports.
            35) Jan 16, 2009 by Mike Rudacille, changed CONUS variable to USA
            36) Jan 21, 2009 by Mike Rudacille, changed 2009 questionnaire variables
                applicable to both V3 and V4 from V3 names to V4 names
            37) March 11, 2009 by Keith Rathbun, changed input data HCS091_1 to HCS092_1
                for Q2FY2009 reports.
            38) April 6, 2009 by Mike Rudacille, changed variable names to reflect
               modifications to beneficiary reports necessary for V4
            39) June 22, 2009 By Keith Rathbun, Change weight variable from
                FWRWT_V4 back to FWRWT. Changed input data HCS092_1 to HCS093_1
                for Q3FY2009 reports.
            40) Sept 30, 2009 By Mike Rudacille, Changed input data HCS093_1 to HCS094_1
                for Q4FY2009 reports.
            41) December 17, 2009 By Emma Ernst, Updated program for Q1FY2010. Updated Variables
names
                and input dataset.
            42) March 2, 2010 By Mike Rudacille, Changed input data HCS101_1 to HCS102_1
            43) March 25, 2010 By Mike Rudacille, Changed input data HCS102_1 to HCS102_2.
               The FIELDAGE var is no longer included in the HCSyyq_1 dataset.
            44) June 19, 2010 By Mike Rudacille, Changed input data HCS102_2 to HCS103_2.
            45) August 28, 2010 By Mike Rudacille, Changed input data HCS103_2 to HCS104_2.
            46) December 1, 2010 By Mike Rudacille, Updated program for Q1FY2011. Updated
Variable names
                and input dataset.
            47) February 24, 2011 By Mike Rudacille, Changed input data HCS111_2 to HCS112_2.
            48) December 10, 2011 By Mike Rudacille, Updated program for Q1FY2012. Updated
Variable names
                and input dataset.
            49) March 5, 2012 By Amanda Kudis, Updated program for Q2FY2012.
            50) June 21, 2012 By Amanda Kudis, Updated program for Q3FY2012.
            51) August 23, 2012 By Christine Cheu, Updated program for Q4FY2012.
            52) November 3, 2012 By Mike Rudacille, Updated for handling of Joint Service
facilities
            53) December 27, 2012 By Aimee Valenzuela, Update program for Q1FY2013. Updated
Variable names
                and input dataset.
            54) March 23, 2013 By Mike Rudacille, Update program for Q2FY2013.
  INPUTS:
            1) HCSyyq_2 - DoD Quarterly HCS Database
  OUTPUTS: 1) GROUP1-8.sas7bdat - DoD Quarterly GROUP files as defined above
  INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional
                              values for consistency w/ TOPS
```

```
* NOTES:
           1) Groups 1-3 modified 10/09/2000
            2) In Q1_2002, S02S01 was renamed and recoded to {\tt H00077} (health
               status variable for 2000). H02077 was the Hispanic/Latino
               variable. In Q2_2002, H02077 is health status, and H02079
               is the Hispanic/Latino variable. To make the Quarter 2 data
               file (HSC022\_1.sd2) more consistent with the Quarter 1 file,
               the health status variable which was H02077 is now H04075,
               and the Hispanic/Latino variable which was H02079 is now
               H02077.
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMTERR NOOVP COMPRESS=YES;
LIBNAME OUT "DATA";
                "..\..\Data\AFinal";
LIBNAME IN1
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
       'Program Saved as: STEP1Q.SAS';
%LET WGT = FWRWT;
proc format;
    value servreg 1 = 'North Army'
                  2 = 'North Air Force'
                  3 = 'North Navy'
                  4 = 'North Other'
                  5 = 'North Joint Service'
                  6 = 'South Army'
                  7 = 'South Air Force'
                  8 = 'South Navy'
                 9 = 'South Other'
                 10 = 'South Joint Service'
                 11 = 'West Army'
                 12 = 'West Air Force'
                 13 = 'West Navy'
                 14 = 'West Other'
                 15 = 'West Joint Service'
                 16 = 'Europe Army'
                 17 = 'Europe Air Force'
                 18 = 'Europe Navy'
                 19 = 'Europe Other'
                 20 = 'Europe Joint Service'
                 21 = 'Pacific Army'
                 22 = 'Pacific Air Force'
                 23 = 'Pacific Navy'
                 24 = 'Pacific Other'
                 25 = 'Pacific Joint Service'
                 26 = 'Latin America Army'
                 27 = 'Latin America Air Force'
                 28 = 'Latin America Navy'
                 29 = 'Latin America Other'
                 30 = 'Latin America Joint Service';
DATA ENTIRE;
  SET IN1.HCS133_2(KEEP=
                MPRID
                XCATCH
                         /*MER 11/03/12*/
                FIELDAGE
                          /*MJS 01/26/04*/
                XTNEXREG
                SERVAFF
                          /*KRR 04/09/04*/
                DBENCAT /*JSO 04/26/2007, added for reservists logic*/
                USA
                ENBGSMPL
                SREDA
                XSEXA
                XBNFGRP
                STRATUM
                          /*KRR 04/03/2006, changed from ADJ_CELL*/
                XINS_COV
                XENR_PCM
```

```
XOCONUS
                          /*JSO 08/24/2006, Overseas Region Indicator*/
                 &WGT.
                 /* Getting Needed Care */
                 H13033
                 H13029
                 /* Getting Care Quickly */
                 H13007
                 H13010
                 /* How Well Doctors Communicate */
                 H13021
                 H13022
                 H13023
                 H13024
                 /* Customer Service */
                 H13041
                 H13042
                 /* Claims Processing */
                 H13046
                 H13065 /* Health Status
H13018 /* Health Care Rating
                 H13048 /* Health Plan Rating
                H13027 /* Personal Doctor Rating
H13031 /* Specialist Rating
H13003 /* Health Plan Used
                                                    */
                                                       *//*JSO 04/26/2007, added for reservists
logic*/
                H13004 /* How Long in Health Plan */
                         /***************************
   FORMAT _ALL_;
    IF SERVAFF='A' THEN XSERVAFF=1;
                                                  *Army;
      ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                                  *Air Force;
       ELSE IF SERVAFF='N' THEN XSERVAFF=3;
                                                 *Navy;
      ELSE XSERVAFF=4;
                                                  *Other;
    IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
    IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
    IF XTNEXREG = . THEN DELETE; /* RSG 02/2005 USE CACSMPL TO DELETE MISSING FIELDS*/
    IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
Added 10,11*/
    NXNS_COV = XINS_COV;
                                      /*JSO 04/26/2007 added for reservists logic*/
                                      /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
    IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
    IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
      NXNS_COV = 3;
      XENR\_PCM = .;
    END;
                       /* Note: use tmp_cell in step2q.sas */
   LENGTH TMP_CELL XSERVREG 8;
    TMP_CELL = STRATUM; /*KRR 04/03/2006, changed from ADJ_CELL*/
    IF XTNEXREG = 1 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 1;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
      ELSE XSERVREG = 5;
    END;
    IF XTNEXREG = 2 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 6;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
       ELSE XSERVREG = 10;
    END;
    IF XTNEXREG = 3 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 11;
```

```
ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
     ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
     ELSE XSERVREG = 15;
   END;
   IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
      IF XOCONUS = 1 THEN DO;
              XSERVAFF = 1 THEN XSERVREG = 16;
        ELSE IF XSERVAFF = 2 THEN XSERVREG = 17;
        ELSE IF XSERVAFF = 3 THEN XSERVREG = 18;
        ELSE IF XSERVAFF = 4 THEN XSERVREG = 19;
                              XSERVREG = 20;
     END;
     IF XOCONUS = 2 THEN DO;
              XSERVAFF = 1 THEN XSERVREG = 21;
        ΙF
        ELSE IF XSERVAFF = 2 THEN XSERVREG = 22;
        ELSE IF XSERVAFF = 3 THEN XSERVREG = 23;
        ELSE IF XSERVAFF = 4 THEN XSERVREG = 24;
        ELSE
                              XSERVREG = 25;
     END;
     IF XOCONUS = 3 THEN DO;
        TF
              XSERVAFF = 1 THEN XSERVREG = 26;
        ELSE IF XSERVAFF = 2 THEN XSERVREG = 27;
        ELSE IF XSERVAFF = 3 THEN XSERVREG = 28;
        ELSE IF XSERVAFF = 4 THEN XSERVREG = 29;
        ELSE
                              XSERVREG = 30;
     END;
   END;
RUN;
*******************
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies. Recode region 7 to region 8.
DATA ENTIRE;
  SET ENTIRE;
  LENGTH DEFAULT = 4;
  IF FIELDAGE NE " " THEN DO; /*MJS 01/26/04*/
    AGE1824=0;
    AGE2534=0;
    AGE3544=0;
    AGE4554=0;
    AGE5564=0;
    AGE6574=0;
           ( '018' <= FIELDAGE <= '024' ) THEN AGE1824=1;
                                                      /*MJS 01/26/04*/
    IF
    ELSE IF ( '025' <= FIELDAGE <= '034' ) THEN AGE2534=1;
     ELSE IF ( '035' <= FIELDAGE <= '044' ) THEN AGE3544=1;
     ELSE IF ( '045' <= FIELDAGE <= '054' ) THEN AGE4554=1;
     ELSE IF ( '055' <= FIELDAGE <= '064' ) THEN AGE5564=1;
    ELSE IF ( '065' <= FIELDAGE <= '074' ) THEN AGE6574=1;
                   FIELDAGE > '074' ) THEN AGE75UP=1;
     ELSE IF (
  ******************
  * Create the FEMALE dummy variable.
  *******************
  TF XSEXA = 2 THEN
    FEMALE = 1;
  ELSE
    FEMALE = 0;
  *******************
  * Create the beneficiary group/enrollment group subsets.
  GROUP1 = 0;
  GROUP2 = 0;
  GROUP3 = 0;
  GROUP4 = 0;
  GROUP5 = 0;
  GROUP6 = 0;
```

```
GROUP7 = 0;
  GROUP8 = 1;
                 * EVERYONE;
  IF (NXNS_COV IN (1,2,6) AND H13004>=2) THEN GROUP1 = 1;
  IF (XENR\_PCM IN (1,2,6) AND H13004>=2) THEN GROUP2 = 1;
  /* JSO 04/05/2007 conditions to run RC type */
  IF "&RCTYPE" = 'ReportCards' AND (XENR_PCM IN (3,7) AND H13004>=2) THEN GROUP3 = 1;
  ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND ((XENR_PCM IN (3,7) AND H13004>=2) OR NXNS_COV
IN (3,9,10)) THEN GROUP3 = 1;
  IF NXNS_COV IN (3,9,10)
                             THEN GROUP4 = 1; /*JSO 08/24/2006, Deleted 4.5*//*JSO 07/30/2007,
Added 9*/ /*MER 07/12/11 Added 10*/
  IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN GROUP5 = 1;
                                          /*JSO 07/30/2007, added DBENCAT conditions*/
  IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN GROUP6 = 1;
                                          /*JSO 07/30/2007, added DBENCAT conditions*/
  IF XBNFGRP IN (3.4)
                         THEN GROUP 7 = 1;
  ******************
  * Recode variables with Never, Sometimes, Usually and Always:
       Recode Never & Sometimes (1 & 2) to 1.
       Recode Usually (3) to 2.
       Recode Always (4) to 3.
  IF H13007 = 1
                    THEN R13007 = 1;
  ELSE IF H13007 = 2 THEN R13007 = 1;
  ELSE IF H13007 = 3 THEN R13007 = 2;
  ELSE IF H13007 = 4 THEN R13007 = 3;
  ELSE IF H13007 < 0 THEN R13007 = .;
  IF H13010 = 1
                    THEN R13010 = 1;
  ELSE IF H13010 = 2 THEN R13010 = 1;
  ELSE IF H13010 = 3 THEN R13010 = 2;
  ELSE IF H13010 = 4 THEN R13010 = 3;
  ELSE IF H13010 < 0 THEN R13010 = .;
  IF H13021 = 1
                   THEN R13021 = 1;
  ELSE IF H13021 = 2 THEN R13021 = 1;
  ELSE IF H13021 = 3 THEN R13021 = 2;
  ELSE IF H13021 = 4 THEN R13021 = 3;
  ELSE IF H13021 < 0 THEN R13021 = .;
  IF H13022 = 1
                    THEN R13022 = 1;
  ELSE IF H13022 = 2 THEN R13022 = 1;
  ELSE IF H13022 = 3 THEN R13022 = 2;
  ELSE IF H13022 = 4 THEN R13022 = 3;
  ELSE IF H13022 < 0 THEN R13022 = .;
  IF H13023 = 1
                  THEN R13023 = 1;
  ELSE IF H13023 = 2 THEN R13023 = 1;
  ELSE IF H13023 = 3 THEN R13023 = 2;
  ELSE IF H13023 = 4 THEN R13023 = 3;
  ELSE IF H13023 < 0 THEN R13023 = .;
  IF H13024 = 1
                  THEN R13024 = 1;
  ELSE IF H13024 = 2 THEN R13024 = 1;
  ELSE IF H13024 = 3 THEN R13024 = 2;
  ELSE IF H13024 = 4 THEN R13024 = 3;
  ELSE IF H13024 < 0 THEN R13024 = .;
  IF H13029 = 1
                   THEN R13029 = 1;
  ELSE IF H13029 = 2 THEN R13029 = 1;
  ELSE IF H13029 = 3 THEN R13029 = 2;
  ELSE IF H13029 = 4 THEN R13029 = 3;
  ELSE IF H13029 < 0 THEN R13029 = .;
  IF H13033 = 1
                   THEN R13033 = 1;
  ELSE IF H13033 = 2 THEN R13033 = 1;
  ELSE IF H13033 = 3 THEN R13033 = 2;
  ELSE IF H13033 = 4 THEN R13033 = 3;
  ELSE IF H13033 < 0 THEN R13033 = .;
```

IF H13041 = 1

THEN R13041 = 1;

```
ELSE IF H13041 = 2 THEN R13041 = 1;
  ELSE IF H13041 = 3 THEN R13041 = 2;
  ELSE IF H13041 = 4 THEN R13041 = 3;
  ELSE IF H13041 < 0 THEN R13041 = .;
  IF H13042 = 1
                    THEN R13042 = 1;
  ELSE IF H13042 = 2 THEN R13042 = 1;
  ELSE IF H13042 = 3 THEN R13042 = 2;
  ELSE IF H13042 = 4 THEN R13042 = 3;
  ELSE IF H13042 < 0 THEN R13042 = .;
  IF H13046 = 1
                   THEN R13046 = 1;
  ELSE IF H13046 = 2 THEN R13046 = 1;
  ELSE IF H13046 = 3 THEN R13046 = 2;
  ELSE IF H13046 = 4 THEN R13046 = 3;
  ELSE IF H13046 < 0 THEN R13046 = .;
  IF H13047 = 1
                    THEN R13047 = 1;
  ELSE IF H13047 = 2 THEN R13047 = 1;
  ELSE IF H13047 = 3 THEN R13047 = 2;
  ELSE IF H13047 = 4 THEN R13047 = 3;
  ELSE IF H13047 < 0 THEN R13047 = .;
  *****************
  * Recode variables to one missing condition ".".
  * This also renames all the "Hyyxxx" to "Ryyxxx".
  R13027 = H13027; IF R13027 < 0 THEN R13027 = .;
  R13031 = H13031; IF R13031 < 0 THEN R13031 = .;
  R13018 = H13018; IF R13018 < 0 THEN R13018 = .;
R13048 = H13048; IF R13048 < 0 THEN R13048 = .;
R13065 = H13065; IF R13065 < 0 THEN R13065 = .;
  ******************
  * Create region and service affiliation dummies.
  *******************
  to 30*/
     ARRAY REGDUMS (30) REG01 REG02 REG03 REG04 REG05 REG06
                       REG07 REG08 REG09 REG10 REG11 REG12
                       REG13 REG14 REG15 REG16 REG17 REG18
                       REG19 REG20 REG21 REG22 REG23 REG24
                       REG25 REG26 REG27 REG28 REG29 REG30;
     DO I = 1 \text{ TO } 30;
       REGDUMS(I)=0;
     END;
              XSERVREG= 1 THEN REG01 =1;
     TF
     ELSE IF XSERVREG= 2 THEN REG02 =1;
ELSE IF XSERVREG= 3 THEN REG03 =1;
     ELSE IF XSERVREG= 4 THEN REG04 =1;
     ELSE IF XSERVREG= 5 THEN REG05 =1;
     ELSE IF XSERVREG= 6 THEN REG06 =1;
ELSE IF XSERVREG= 7 THEN REG07 =1;
     ELSE IF XSERVREG= 8 THEN REG08 =1;
     ELSE IF XSERVREG= 9 THEN REG09 =1;
ELSE IF XSERVREG= 10 THEN REG10 =1;
     ELSE IF XSERVREG= 11 THEN REG11 =1;
     ELSE IF XSERVREG= 12 THEN REG12 =1;
     ELSE IF XSERVREG= 13 THEN REG13 =1;
     ELSE IF XSERVREG= 14 THEN REG14 =1;
     ELSE IF XSERVREG= 15 THEN REG15 =1;
     ELSE IF XSERVREG= 16 THEN REG16 =1;
     ELSE IF XSERVREG= 17 THEN REG17
                                     =1;
     ELSE IF XSERVREG= 18 THEN REG18 =1;
     ELSE IF XSERVREG= 19 THEN REG19 =1;
     ELSE IF
             XSERVREG= 20 THEN REG20
                                     =1;
     ELSE IF XSERVREG= 21 THEN REG21 =1;
     ELSE IF XSERVREG= 22 THEN REG22 =1;
     ELSE IF XSERVREG= 23 THEN REG23 =1;
ELSE IF XSERVREG= 24 THEN REG24 =1;
     ELSE IF XSERVREG= 25 THEN REG25 =1;
     ELSE IF XSERVREG= 26 THEN REG26 =1;
     ELSE IF XSERVREG= 27 THEN REG27
```

```
ELSE IF XSERVREG= 28 THEN REG28 =1;
     ELSE IF XSERVREG= 29 THEN REG29 =1;
ELSE IF XSERVREG= 30 THEN REG30 =1;
     ARRAY SRVDUMS (5) SRV01 SRV02 SRV03 SRV04 SRV05; /*MER 11/03/2012 Changed from 4 to 5*/
     DO I = 1 \text{ TO } 5;
                    /*Needed for consumer watch ONLY */
       SRVDUMS(I)=0;
     END;
     IF
             XSERVAFF = 1 THEN SRV01 = 1;
     ELSE IF XSERVAFF = 2 THEN SRV02 = 1;
     ELSE IF XSERVAFF = 3 THEN SRV03 = 1;
     ELSE IF XSERVAFF = 4 THEN SRV04 = 1;
ELSE IF XSERVAFF = 5 THEN SRV05 = 1;
  END;
RUN;
* Recode item responses to proportional values using CONVERT.SAS.
***************************
%INCLUDE "CONVERT SAS";
%CONT2(DSN=ENTIRE, NUM=4, Y=R13018 R13048 R13027 R13031);
%CONT3(DSN=ENTIRE, NUM=12, Y=R13007 R13010 R13029 R13033
                         R13021 R13022 R13023 R13024
                         R13041 R13042 R13046 R13047);
* Sort the main file to reorder it by MPRID.
PROC SORT DATA=ENTIRE; BY MPRID; RUN;
* Print the contents of ENTIRE dataset.
PROC CONTENTS DATA=ENTIRE;
 TITLE2 'Contents of ENTIRE';
RUN;
************************
* Print some of the recoded records.
*************************
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR MPRID
              /*MJS 01/26/04*/
      FIELDAGE
      XTNEXREG
      XSERVAFF
      XSERVREG
      USA
      ENBGSMPL
      XSEXA
      STRATUM
             /*KRR 04/03/2006 Changed from ADJ_CELL*/
      XINS COV
      NXNS_COV /*JSO 04/26/2007, added for reservists logic*/
              /*JSO 04/26/2007, added for reservists logic*/
      DBENCAT
     XENR PCM
     &WGT.
     ;
RUN;
*******************
* Print some of the recoded records.
                                 *****************************
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR FIELDAGE
               /*MJS 01/26/04*/
     AGE1824
     AGE 2534
      AGE3544
```

```
AGE4554
       AGE5564
       AGE6574
       AGE75UP
       XSEXA
       FEMALE
       ENBGSMPL
       XINS_COV
       NXNS_COV
       XENR_PCM
       XBNFGRP
       GROUP1
       GROUP2
       GROUP3
       GROUP4
       GROUP5
       GROUP6
       GROUP7
      ;
RUN;
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded question variables';
   VAR H13007 R13007
       H13010 R13010
H13021 R13021
       H13022 R13022
       H13023 R13023
       H13024 R13024
       H13029 R13029
       H13033 R13033
       H13041 R13041
H13042 R13042
       H13046 R13046
       H13047 R13047
H13018 R13018
       H13027 R13027
       H13031 R13031
       H13048 R13048
H13065 R13065
RUN;
/*\mbox{JSO} 08/24/2006, Changed 16 to 24*/
/*MER 11/03/2012, Changed 24 to 30*/
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded REGION variables';
   VAR XSERVREG
       REG01
       REG02
       REG03
       REG04
       REG05
       REG06
       REG07
       REG08
       REG09
       REG10
       REG11
       REG12
       REG13
       REG14
       REG15
       REG16
       REG17
       REG18
       REG19
       REG20
       REG21
       REG22
```

```
REG23
      REG24
      REG25
      REG26
      REG27
      REG28
      REG29
      REG30;
RUN;
/*MER 11/03/2012 Changed 4 to 5*/
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded service affiliation variables';
  VAR XSERVREG
      XSERVAFF
      <code>XOCONUS /*JSO 08/24/2006</code>, Changed Overseas Regions*/
      SRV01
      SRV02
      SRV03
      SRV04
     SRV05
RUN;
*******************
* Create the 7 subgroups for processing by STEP2.SAS.
DATA OUT.GROUP1
    OUT.GROUP2
    OUT.GROUP3
    OUT.GROUP4
    OUT.GROUP5
    OUT.GROUP6
    OUT.GROUP7
    OUT.GROUP8;
    SET ENTIRE;
    DROP
      H13007
       н13010
      H13021
       H13022
       H13023
       H13024
      н13029
       H13033
       H13041
      H13042
      н13046
       H13047
       H13018
       H13027
       H13031
       H13048
      H13065
     IF GROUP1 = 1 THEN OUTPUT OUT.GROUP1;
     IF GROUP2 = 1 THEN OUTPUT OUT.GROUP2;
     IF GROUP3 = 1 THEN OUTPUT OUT.GROUP3;
     IF GROUP4 = 1 THEN OUTPUT OUT.GROUP4;
     IF GROUP5 = 1 THEN OUTPUT OUT.GROUP5;
     IF GROUP6 = 1 THEN OUTPUT OUT.GROUP6;
     IF GROUP7 = 1 THEN OUTPUT OUT.GROUP7;
     OUTPUT OUT.GROUP8;
RUN;
```

G.1.B Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\Convert.SAS - Convert Item Responses To Proportional Values.

```
********************
* PROGRAM: CONVERT.SAS
* TASK:
         DOD HEALTH CARE SURVEY ANALYSIS (8687-330)
* PURPOSE: CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES FOR CONSISTENCY
         WITH THE TOPS SURVEY.
* WRITTEN: October 2000 BY ERIC SCHONE
* MODIFIED: October 2000 BY KEITH RATHBUN, Added PROLOG. Also, added DSN
         to argument lists.
* INPUTS: 1) User-specified SAS Dataset
* OUTPUTS: 1) User-specified SAS Dataset with recoded values
* NOTES:
* 1) Arguments for the CONT1-CONT3 macros are as follows:
    a) SAS dataset name (dsn)
   b) Number of variables to be converted (num)
   c) List of variables to be converted (y)
^{\star} 2) These macros assume that the response items have already been
   converted/recoded to CAHPS scales.
*****
* CONT1 - Convert big problem, small problem, not a problem questions to
* proportional values.
%macro cont1(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i = 1 to #
    if vars(i) ne . and vars(i) ne 3 then vars(i) = 0;
    if vars(i) = 3 then vars(i) = 1;
  end;
run;
%mend cont1;
******************
* CONT2 - Convert rating questions to proportional values.
%macro cont2(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to #
    if vars(i) ne . and vars(i) < 8 then vars(i) = 0;
    if vars(i) in (8,9,10) then vars(i) = 1;
  end;
run;
%mend cont2;
*******************
* CONT3 - Convert Never, Sometimes, Usually, Always questions to
       proportional values.
%macro cont3(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to #
    if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
    vars(i) = vars(i) - 1;
  end;
run;
%mend cont3;
```

G.1.C Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\STEP2Q.SAS - Calculate CAHPS Adjusted Scores - Run Ouarterly.

```
Project: DoD - Quarterly Adult Report Cards
  Program: STEP2Q.SAS
  Purpose: Generate risk-adjusted CAHPS Scores for Adult Report Card.
  Requires: Program STEP1Q.SAS must be run prior to running this program.
  The adult report card contains a large number of risk-adjusted scores.
  Some scores are calculated from responses to individual survey questions.
  Composite scores are calculated by combining scores from individual
  questions. The scores then are compared with external civilian
  benchmarks. The programming tasks involved in building the report
  card are:
        1) Preparing data for analyses
        2) Estimating risk adjustment models
       3) Calculating risk-adjusted values and variances
       4) Calculating benchmarks
       5) Comparing risk-adjusted values to benchmarks
          and hypothesis testing
  Previous Program: STEP1Q.SAS
  Modified: 1) 04/10/02 By Mike Scott, Updated variable names for 2002
            2) 07/11/02 By Mike Scott, Changed R00077 to R04075, since
               \ensuremath{\text{H02077}} (health status) is back and was recoded to \ensuremath{\text{R04075}}
               in STEP1Q.
             3) 03/21/03 By Mike Scott, Updated variable names for 2003
               survey.
             4) 03/24/04 By Mike Scott, Updated for 2004 survey.
             5) 09/24/2004 By Regina Gramss, Updated to use XTNEXREG instead of XREGION
               and to update for Q3 2004 data.
            6) 01/25/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
               XTNEXREG to include service affiliation.
            7) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005
            8) 07/2005 By Regina Gramss, Updated for Q2 2005
            9) 10/2005 By Regina Gramss, Updated for Q3 2005
            10) 12/2005 By Regina Gramss, Updated for Q4 2005
           11) March 21, 2006 by Keith Rathbun, updated variable names
                for Q2 FY 2006.
           12) 07/2006 By Justin Oh, Updated for Q3 FY 2006
           13) Aug 24, 2006 by Justin Oh, changed overseas to 3 regions.
               Regions have been changed from 16 categories to 24.
           14) April 7, 2009 by Mike Rudacille, changed variable names to reflect
               modifications to beneficiary reports necessary for V4
           15) June 22, 2009 By Keith Rathbun, Change weight variable from
               FWRWT_V4 back to FWRWT.
           16) December 17, 2009 by Emma Ernst, updated Variables names for
               Q1FY2010.
           17) December 1, 2010 by Mike Rudacille, updated Variable names for Q1FY2011
           18) December 10, 2011 by Mike Rudacille, updated Variable names for Q1FY2012
           19) November 3, 2012 by Mike Rudacille, updated for handling of
               Joint Service facilities
           20) December 27, 2012 by Aimee Valenzuela, updated variable names for Q1FY2013
*********************
OPTIONS NOCENTER LS=132 PS=79 SOURCE NOOVP COMPRESS=YES;
LIBNAME IN1
               "DATA";
LIBNAME OUT
                "DATA";
LIBNAME OUT2
               "DATA\ADULTHATFILES";
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
/* RSG 02/2005 hard coded skelreg so data does not have to be copied from quarter to quarter*/
/* JSO 08/24/2006, Changed from 16 to 24 Regions */ /* MER 11/03/2012, Changed from 24 to 30
Regions */
```

```
DATA SKELREG (COMPRESS=NO);
  INPUT XSERVREG;
  DATALINES;
    1
    2
    3
    4
    5
    6
    7
    8
    9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    2.0
    21
    22
    23
    24
    25
    26
    27
    28
    29
    30
RIIN;
*************************
*******************
* Set GLOBAL parameters here.
******************
**************************
* Set the number of Dependent variables to process.
* One does not need to start at 1, but the max must be >= min.
%LET MIN_VAR = 1;
%LET MAX_VAR = 16;
* Set the number of subgroups to process.
*************************
%LET MIN GRP = 1;
LET MAX_{GRP} = 8;
**************************
* These are expected to remain the same for a particular dependent
* variable run.
%LET WGT
         = FWRWT;
%LET IND_VAR1 = R13065;
%LET IND_VAR2 = ; * FEMALE;
%LET IND_VAR3 = ; * SREDHIGH;
%LET DEBUGFLG = 0; * Set to 1 if you want extra printout;
%LET TITL1 = Prime Enrollees;
%LET TITL2 = Enrollees w/military PCM;
%LET TITL3 = Enrollees w/civilian PCM;
%LET TITL4 = Nonenrollees;
%LET TITL5 = Active Duty;
%LET TITL6 = Active Duty Dependents;
%LET TITL7 = Retirees and Dependents;
```

```
%LET TITL8 = All Beneficiaries;
*******************
* GETTING NEEDED CARE.
***************************
%LET DEPVAR1 = R13029;
%LET DEPVAR2 = R13033;
*****************
* GETTING NEEDED CARE QUICKLY.
%LET DEPVAR3 = R13007;
%LET DEPVAR4 = R13010;
******************
* HOW WELL DOCTORS COMMUNICATE.
%LET DEPVAR5 = R13021;
%LET DEPVAR6 = R13022;
%LET DEPVAR7 = R13023;
%LET DEPVAR8 = R13024;
******************
* CUSTOMER SERVICE.
*****************************
%LET DEPVAR9 = R13041;
%LET DEPVAR10 = R13042;
* CLAIMS PROCESSING.
%LET DEPVAR11 = R13046;
%LET DEPVAR12 = R13047;
******************
* RATING ALL HEALTH CARE: 0 - 10.
**********************
%LET DEPVAR13 = R13018;
* RATING OF HEALTH PLAN: 0 - 10.
******************************
%LET DEPVAR14 = R13048;
*************************
* RATING OF PERSONAL DR: 0 - 10.
*************************
%LET DEPVAR15 = R13027;
*******************
* SPECIALITY CARE: 0 - 10.
              ******************
%LET DEPVAR16 = R13031;
%MACRO SCORE;
* use this macro for all groups;
* super region variables are to be used
%PUT *******************************
%PUT STARTING MACRO SCORE;
%PUT "GROUP = " GROUP&IGRP;
%PUT "TITLE
        = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND_VAR1 = " &IND_VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
       = " &WGT;
%PUT "WGT
%PUT *******************************
* If the current group is 1 use the skeleton files;
```

```
* else used the previous groups output file;
* The mrgfile is added to by each subgroup;
%LET RMRGFILE = OUT.R &&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET RMRGFILE = SKELREG;
* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model for GROUP&igrp for regions";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    WEIGHT &WGT;
    %INCLUDE 'REGRSREG.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL
                      PRED&IGRP RESID&IGRP XSERVREG &&DEPVAR&IVAR)
              P = PRED&IGRP
             R = RESID&IGRP;
RUN;
* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
        TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with predicted values and the RESID&IGRP";
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
        VAR MPRID XSERVREG &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
   RUN;
   PROC PRINT DATA=BETAS;
         TITLE2 "BETAS: file with coefficients";
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RIIN;
%END;
*-----;
*---- get the standard err/variance ----;
*----;
%LET DEP = &&DEPVAR&IVAR;
%R SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);
* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
   SET MEANFILE;
   IF N = 1 THEN SET BETAS(DROP = TYPE );
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';
   DO I = 1 TO DIM(COEFFS);
      IF COEFFS(I) = . THEN COEFFS(I) = 0;
IF MEANS(I) = . THEN MEANS(I) = 0;
      ADJUST + ( COEFFS(I) * MEANS(I) );
   ADJUST = ADJUST + INTERCEPT;
RUN;
* add the region coefficients to the adjusted value from above;
* output one record per region with the region;
* level adjusted scores;
DATA COEFFREG(KEEP=XSERVREG NEWADJST);
   SET ADJUST;
    %INCLUDE 'REGARRAY.INC';
   LENGTH NAME $8;
   DO I=1 TO DIM(REGRHS);
       CALL VNAME (REGRHS (I), NAME);
      XSERVREG=INPUT(SUBSTR(NAME, 4, 2), 2.);
       IF REGRHS(I) = . THEN REGRHS(I) = 0;
      NEWADJST=ADJUST + REGRHS(I);
```

```
OUTPUT;
   END;
RUN;
* sum of wgts for each region;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
 CLASS XSERVREG;
 VAR &WGT;
 OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT&IGRP SUM=REGWGT&IGRP;
* merge the COEFFREG file with the region;
* adjusted scores to the region level total weight;
* merge by the region. Creates a region level;
* file with the total sample weight of the region;
DATA COEFFREG;
     MERGE COEFFREG(IN=IN1)
                            KEEP=XSERVREG REGCNT&IGRP REGWGT&IGRP);
            REG_WGTS(IN=IN2
      BY XSERVREG;
      IF IN1;
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=MEANFILE;
         TITLE2 'Print of MEANFILE';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RIIN:
    PROC PRINT DATA=ADJUST;
         TITLE2 'Print of ADJUST';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RIIN;
   PROC PRINT DATA=COEFFREG;
         TITLE2 'Print of COEFFREG: Region Adjusted Scores';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
   PROC PRINT DATA=REG_WGTS;
         TITLE2 'Print of REG_WGTS: Region Area Sum of WGTS';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
   PROC PRINT DATA=COEFFREG;
         TITLE2 'Print of COEFFREG: Regions Adjusted Scores - with sum of wgts and region';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
%END;
* Calculate region level adjusted scores from the;
* region level adjusted scores in COEFFREG;
PROC MEANS DATA=COEFFREG NWAY NOPRINT;
 WEIGHT REGWGT&IGRP;
 CLASS XSERVREG;
        NEWADJST;
 OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=REGFILE1;
       TITLE2 'Print of REGFILE1: Region Scores';
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;
* merge the previous groups region results (if any);
* with the region level std errs and the region;
* level results from catchment results collapsed to region;
```

```
DATA OUT.R_&&DEPVAR&IVAR;
    MERGE &RMRGFILE(IN=INS)
          R&IGRP&&DEPVAR&IVAR
          REG WGTS(KEEP = REGCNT&IGRP REGWGT&IGRP XSERVREG)
          REGFILE1(KEEP = ADJ&IGRP XSERVREG);
     BY XSERVREG;
    DEPENDNT = "&&DEPVAR&IVAR";
     IF INS;
RUN;
* merge the previous groups regional results (if any);
* with the region level std err and the region;
* level results from the current group/dependent var;
DATA OUT.R_&&DEPVAR&IVAR;
   MERGE OUT.R_&&DEPVAR&IVAR(IN=INS)
         R&IGRP&&DEPVAR&IVAR /*KRR - removed perm dataset ref to OUT2 */
         REG_WGTS
         REGFILE1;
   BY XSERVREG;
   DEPENDNT = "&&DEPVAR&IVAR";
   TF TNS:
RUN;
PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
    TITLE2 "Print of XSERVREG variables in &&DEPVAR&IVAR";
     TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;
%MEND SCORE;
%MACRO MAKE INC;
************************
* creates include files for later Procs;
* Needs to be run each time. Called
* in the outer (beneficiary loop).
* I chose this method because it was
* clearer(to me at least).
* This macro needs to be run once per ;
* Dep var per subgroup.
*****************************
* Drop records where the dependent var is missing;
* Drop records with missing catchment or region values;
 DATA GROUP&IGRP;
      SET IN1.GROUP&IGRP;
      IF &&DEPVAR&IVAR NOT = .;
 RIIN;
DATA _NULL_;
     SET GROUP&IGRP END = EOF;
     IF &&DEPVAR&IVAR NOT = .;
     ARRAY AGECNT(7) 8 aCNT1 - aCNT7;
     RETAIN AGECNT 0;
     RETAIN CNT 0;
     ARRAY AGENAM(7) $8 AGENAM1 - AGENAM7;
     ARRAY AGENAMX(7) $8 AGENAMX1 - AGENAMX7;
     RETAIN AGENAM;
     RETAIN AGENAMX;
     ARRAY REGCNT(30) 8 REGCNT01- REGCNT30; /*JSO 08/24/2006, Changed from 16 to 24*/
                                              /*MER 11/03/2012, Changed from 24 to 30*/
     RETAIN CATCNT 0;
     RETAIN REGCNT 0;
      * create a name array for the parent age dummies;
     IF _N_ = 1 THEN DO;
        AGENAM(1) = "AGE1824";
        AGENAM(2) = "AGE2534";
        AGENAM(3) = "AGE3544";
        AGENAM(4) = "AGE4554";
        AGENAM(5) = "AGE5564";
        AGENAM(6) = "AGE6574";
        AGENAM(7) = "AGE75UP";
      END;
```

```
* total record count;
      CNT + 1;
      * count records in each age group;
      * we will use only age groups with more;
      * than 2 obs;
      IF AGE1824 = 1 THEN AGECNT(1) + 1;
      IF AGE2534 = 1 THEN AGECNT(2) + 1;
      IF AGE3544 = 1 THEN AGECNT(3) + 1;
      IF AGE4554 = 1 THEN AGECNT(4) + 1;
      IF AGE5564 = 1 THEN AGECNT(5) + 1;
      IF AGE6574 = 1 THEN AGECNT(6) + 1;
      IF AGE75UP = 1 THEN AGECNT(7) + 1;
      * count records in each XSERVREG group;
      * we will only use XSERVREGs with more than than 2 obs;
      * I am using the region value as the subscript;
      * to make the code simpler and more readable;
      IF 1<= XSERVREG <= 30 THEN DO; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24
to 30*/
         REGCNT(XSERVREG) = REGCNT(XSERVREG) + 1;
      END;
      IF EOF THEN GOTO ENDFILE;
      RETURN;
ENDFILE:
     * create a title common to all procs in the current group;
     TITLE " &&DEPVAR&IVAR &&TITL&IGRP";
     * display counts in the log;
     %IF &DEBUGFLG > 0 %THEN %DO;
        PUT ' ';
        PUT 'AT EOF: ';
        PUT "TOTAL CNT = "
        PUT AGENAM(1) " " AGECNT(1)=;
PUT AGENAM(2) " " AGECNT(2)=;
        PUT AGENAM(3) " " AGECNT(3)=;
        PUT AGENAM(4) " " AGECNT(4)=;
PUT AGENAM(5) " " AGECNT(5)=;
        PUT AGENAM(6) " " AGECNT(6)=;
        PUT AGENAM(7) " " AGECNT(7)=;
        PUT " ";
        DO I = 1 TO 30; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/
           IF(REGCNT(I) > 0) THEN DO;
              PUT 'REG' I Z2. REGCNT(I) 6.;
           END;
        END;
        PUT ' ';
      %END;
             *** of debug test;
     * This include is for the regression using regions;
     * in this case we drop the last XSERVREG;
     FILE 'REGRSREG.INC';
     PUT @6 "MODEL &&DEPVAR&IVAR = ";
     IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
     IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */
     CNT2 = 0;
     * setup an array of those age groups that have > 1 obs;
     DO I = 1 TO 7;
        IF AGECNT(I) > 1 THEN DO;
           CNT2 + 1;
           AGENAMX(CNT2) = AGENAM(I);
        END;
     END;
```

```
* now drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;
* ditto for the catchment areas with > 0 obs;
* in this case we drop the the first USABLE category;
* this is not consistent with the catchment area code;
* but this is the method that Portia used;
FIRST = 0; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/ DO I = 1 TO 30; * skip the 1st region with 1+ obs;
   IF REGCNT(I) > 0 THEN DO;
     IF FIRST = 1 THEN PUT @12 'REG' I Z2.;
     FIRST = 1;
  END;
END;
PUT @11 ';';
*----;
* now create the complete var statement;
* for the Proc MEANS used to replace the;
* independent variables missing values;
* we assume the age groups will always be used;
* These are also called the RISK FACTORS;
FILE 'RISKVARS.INC';
PUT @10 "VAR";
DO I = 1 TO CNT2;
  PUT @12 AGENAMX(I);
* not all the other dependent variables will be used;
* only write them out if they are not null;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR1";
END;
IF "&IND_VAR2" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR2";
END;
IF "&IND_VAR3" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR3";
PUT @11 ';';
*----;
* create an ARRAY statement of the desired risk factors;
* called adjusters in the specs and in the code;
FILE 'RISKARRY.INC';
PUT @10 "ARRAY COEFFS(*) $8";
DO I = 1 TO CNT2;
 PUT @12 AGENAMX(I);
END;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR1";
END;
IF "&IND_VAR2" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR2";
END;
```

```
IF "&IND_VAR3" NE "" THEN DO;
        CNT3 + 1;
        PUT @12 "&IND_VAR3";
    PUT @11 ';';
    * create an ARRAY of mean names for the output;
    * from a proc MEANS of the Risk Factors in RISKARRY;
    FILE 'RISKMEAN.INC';
    IND_CNT = CNT2 + CNT3;
    PUT @6 "ARRAY MEANS(*) $8";
    DO I = 1 TO IND_CNT;
      PUT @12 "MEAN" I Z2.;
    END;
    PUT @11 ';';
   ____;
   create the equivalent of the following statement;
   OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN=MEAN1-MEAN&MEAN_CNT;
    FILE 'MEANFILE.INC';
    PUT @6 "OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = ";
    DO I = 1 TO IND_CNT;
     PUT @12 "MEAN" I Z2.;
    END;
    PUT @11 ';';
    *-----;
    * create a super region area array;
    * with at least ONE obs;
    FILE 'REGARRAY.INC';
    PUT @10 "ARRAY REGRHS(*) $8";
    DO I = 1 \text{ TO } 30;
                               /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to
30*/
       IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
         PUT @16 'REG' I Z2.;
       END;
    END;
    PUT @11 ';';
 * Create the means of the adjuster variables;
^{\star} They will be used to replace missing adjuster variables;
 * calculate weighted means;
PROC MEANS DATA=GROUP&IGRP;
  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=MEANFILE;
       TITLE2 "Print of MEANFILE for Risk Adjuster variables";
       TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  DIIM:
%END;
DATA GROUP&IGRP;
    SET GROUP&IGRP;
    IF _N_ = 1 THEN SET MEANFILE;
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';
    DO I = 1 TO DIM(COEFFS);
       IF COEFFS(I) = . THEN DO;
         COEFFS(I) = MEANS(I);
       END;
    END;
/* PROC MEANS DATA=out.group8;
  WEIGHT &WGT;
```

```
%INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN; */
%MEND MAKE INC;
%MACRO R_SUDAAN(INFILE);
* Use this macro to create standard err (variances)
* for XSERVREGs.
*****************
%PUT STARTING MACRO R_SUDAAN (XSERVREG);
DATA &INFILE;
  SET &INFILE;
  IF 1<= XSERVREG <= 30; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/
* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
 BY TMP_CELL;
RUN;
%IF &DEBUGFLG > 5 %THEN %DO;
  PROC PRINT DATA=&INFILE(OBS=5);
       TITLE2 'Print of the input file to SUDAAN (XSERVREG)';
      TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RIIN:
%END;
* Calculate values for super regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / missunit;
  VAR RESID&IGRP;
  TABLES XSERVREG;
  SUBGROUP XSERVREG;
  LEVELS 30; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/
  OUTPUT SEMEAN
       / REPLACE TABLECELL=DEFAULT
         FILENAME=RS&DEP;
  RIIN;
  DATA R&IGRP&&DEPVAR&IVAR;
      SET RS&DEP;
      KEEP XSERVREG SEMEAN;
      IF SEMEAN NE .;
      RENAME SEMEAN = SEMEAN&IGRP;
  RUN;
  PROC PRINT DATA=R&IGRP&&DEPVAR&IVAR;
    TITLE2 "Print XSERVREG DESCRIPT DATA=R&IGRP&&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
%MEND R_SUDAAN;
%* call the macros;
%MACRO MAINLOOP(MIN_VAR,MAX_VAR,MIN_GRP,MAX_GRP);
   %* loop over the set of dependent variables;
      %DO IVAR = &MIN_VAR %TO &MAX_VAR;
        %DO IGRP = &MIN_GRP %TO &MAX_GRP;
           %MAKE_INC;
           %SCORE;
```

%END;

%MEND;

%MAINLOOP(&MIN_VAR,&MAX_VAR,&MIN_GRP,&MAX_GRP);

$\label{lem:cards} G.1.D \quad Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\REGRSREG.INC\ -\ Include\ file1\ in\ step2q.sas.$

```
MODEL R13031 =
     R13065
     AGE1824
     AGE2534
     AGE3544
     AGE4554
      REG02
      REG03
      REG04
     REG05
      REG06
      REG07
     REG08
     REG09
     REG11
      REG12
     REG13
      REG14
      REG16
     REG17
     REG18
     REG19
      REG21
     REG22
     REG23
      REG24
     REG26
     REG28
     REG29
```

$G.1.E \quad Q3FY2013 \ | PROGRAMS \ | ReportCards \ | CAHPS_AdultQ3FY2013 \ | RISKARRY.INC - Include file 2 in step 2q.sas.$

```
ARRAY COEFFS(*) $8
AGE1824
AGE2534
AGE3544
AGE4554
AGE5564
R13065
```

$G.1.F \quad Q3FY2013 \ \ PROGRAMS \ \ \ CAHPS_AdultQ3FY2013 \ \ \ RISKMEAN. INC-Include file 3 in step 2q. sas.$

```
ARRAY MEANS(*) $8
MEAN01
MEAN02
MEAN03
MEAN04
MEAN05
MEAN06
;
```

$G.1.G \quad Q3FY2013 \ PROGRAMS \ ReportCards \ CAHPS_AdultQ3FY2013 \ REGARRAY. INC-Include file 4 in step 2q.s as.$

```
ARRAY REGRHS(*) $8
      REG01
      REG02
      REG03
      REG04
      REG05
      REG06
      REG07
      REG08
      REG09
      REG11
      REG12
      REG13
      REG14
      REG16
      REG17
      REG18
      REG19
      REG21
      REG22
      REG23
      REG24
      REG26
      REG28
      REG29
```

$G.1.H \quad Q3FY2013 \backslash PROGRAMS \backslash ReportCards \backslash CAHPS_AdultQ3FY2013 \backslash RISKVARS.INC - Include file 5 in step 2q.s as.$

VAR
 AGE1824
 AGE2534
 AGE3544
 AGE4554
 AGE5564
 R13065
;

$G.1.I \qquad Q3FY2013 \ \ PROGRAMS \ \ \ CAHPS_AdultQ3FY2013 \ \ \ \ \ E.INC\ -\ Include\ file 6\ instep 2q.sas.$

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = MEAN01 MEAN02 MEAN03 MEAN04 MEAN05 MEAN05;
```

G.1.J Q3FY2013\PROGRAMS\ReportCards\CAHPS_AdultQ3FY2013\COMPOSIT.SAS - Calculate CAHPS Composite Scores - Run Quarterly.

```
* Project: DoD - Quarterly Adult Report Cards
* Program: COMPOSIT.SAS
* Purpose: Generate Quarterly Adult Report Card composite scores
* Requires: Programs STEP1Q.SAS and STEP2Q.SAS must be run prior
           to this program.
* Modified: 1) 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
              accommodate the move of ALLSCORE.SAS functionality into the
              STEP2Q.SAS program.
           2) 01/08/2002 By Daniele Beahm, Changed versions in libname statements
              so program can be run with SAS v8 and still produce SAS v612 datasets.
           3) 04/10/2002 By Mike Scott, Updated variable names for 2002
              survey.
           4) 03/21/2003 By Mike Scott, Updated variable names for 2003
              survey.
           5) 03/24/2004 By Mike Scott, Updated for 2004.
           6) 06/15/2004 By Regina Gramss, Update for Q2, added in
              codes to compensate for any negative trend and to
              print out the number of nonmissing data producing the
              negative trend - those equal to or more than 30 nonmissing
              data need to be further evaluated.
           7) 09/2004 By Regina Gramss, Update for Q3, added in codes to
              use XTNEXREG field instead of XREGION.
           8) 01/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
              XTNEXREG, to incorporate service affliliation.
           9) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005.
          10) 01/31/2006 By Regina Gramss, deleted following lines for "data r_&var1":
              "%if &i~=8 %then %do" (keep set statement then delete the following:)
              "%end
               %else %do
               set in2.h5&var1(rename=(resid5=r_&var1)) in2.h6&var1(rename=(resid6=r_&var1))
in2.h7&var1(rename=(resid7=r_&var1))
               %end"
          11) 03/21/2006 By Keith Rathbun, Updated variable names for 2003
              survey.
          12) 04/30/2008 By Justin Oh, Added Eric's upcase command to _name_ on line 204
          13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
              modifications to beneficiary reports necessary for V4
          14) June 22, 2009 By Keith Rathbun, Change weight variable from
              FWRWT_V4 back to FWRWT.
          15) December 17, 2009 By Emma Ernst, updated variable names for Q1FY2010
          16) December 1, 2010 By Mike Rudacille, updated variable names for Q1FY2011
          17) December 27, 2012 By Aimee Valenzuela, updated variable names for Q1FY2013
***************************
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES NOFMTERR;
            "data";
libname in
               "data\adulthatfiles";
libname in2
libname out
              "data";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
%LET WGT = FWRWT;
%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,QCOUNT=);
 DATA _NULL_;
  %IF "&TYPE" = "R" %THEN %DO;
      CALL SYMPUT ('BYVAR', 'XSERVREG');
   %END; %ELSE
  %IF "&TYPE" = "C" %THEN %DO;
      CALL SYMPUT ('BYVAR', 'CACSMPL');
  %END;
 * Create a Composite Score
DATA NULL;
    FILE 'FILES.INC';
```

```
PUT @6 'SET';
    IF "&VAR1" NE '' THEN PUT @8 "IN.&TYPE._&VAR1";
    IF "&VAR2" NE '' THEN PUT @8 "IN.&TYPE._&VAR2";
    IF "&VAR3" NE '' THEN PUT @8 "IN.&TYPE._&VAR3";
    IF "&VAR4" NE '' THEN PUT @8 "IN.&TYPE._&VAR4";
    PUT @8 ';';
RUN;
DATA COMPOS&COMPOS;
    LENGTH DEPENDNT $ 8;
     %INCLUDE 'FILES.INC';
     DEPENDNT = "&TYPE.COMPOS&COMPOS";
RIIN;
PROC SORT DATA=COMPOS&COMPOS;
     BY &BYVAR;
PROC PRINT DATA=COMPOS&COMPOS(OBS=60);
     TITLE "Print of COMPOS&COMPOS after sort";
DATA COMPOS&COMPOS;
     SET COMPOS&COMPOS;
     BY &BYVAR;
  %IF "&TYPE" = "R" %THEN %DO;
      ARRAY N(*) REGCNT1 - REGCNT8;
      ARRAY W(*) REGWGT1 - REGWGT8;
      ARRAY TN(*) TOTCNT1 - TOTCNT8;
      ARRAY TW(*) TOTWGT1 - TOTWGT8;
  %END; %ELSE
  %IF "&TYPE" = "C" %THEN %DO;
      ARRAY N(*) CATCNT1 - CATCNT8;
ARRAY W(*) CATWGT1 - CATWGT8;
      ARRAY TN(*) TOTCNT1 - TOTCNT8;
      ARRAY TW(*) TOTWGT1 - TOTWGT8;
  %END;
                     ADJ1 - ADJ8;
     ARRAY ADJ(*)
     ARRAY TOTADJ(*) TOTADJ1 - TOTADJ8;
     ARRAY AVGADJ(*) AVJADJ1 - AVJADJ8;
     RETAIN TOTADJ TN TW;
     RETAIN AVGADJ;
     IF FIRST.&BYVAR THEN DO;
        DO I = 1 TO DIM(TOTADJ);
          TOTADJ(I) = 0; TN(I)=0; TW(I)=0;
        END;
     END; DROP I;
     PUT ' ';
     PUT ' --- STARTING LOOP1: ' &BYVAR=;
     DO I = 1 TO DIM(TOTADJ);
        PUT I= ADJ(I)=;
        IF ADJ(I) NE . THEN DO;
           TOTADJ(I) = TOTADJ(I) + ADJ(I);
           TN(I)=TN(I)+N(I);
           TW(I)=TW(I)+W(I);
        END;
        PUT I= ADJ(I)= TOTADJ(I)=;
     END;
     PUT ' ';
     PUT ' --- STARTING LOOP2: ' &BYVAR=;
     IF LAST.&BYVAR THEN DO;
        DO I = 1 TO DIM(TOTADJ);
           PUT I= ADJ(I)= TOTADJ(I)= AVGADJ(I)=;
           AVGADJ(I) = TOTADJ(I)/&QCOUNT;
           adj(i)=avgadj(i);
           N(I) = TN(I) / \&QCOUNT;
           W(I) = TW(I) / \&QCOUNT;
        END;
```

```
OUTPUT;
      END;
RUN;
%do i=1 %to 8;
/* Collect Standard Errors and residuals from variables in composite */
%if &type=R|(&i=1|&i=2|&i>4) %then %do;
%if &varl~= %then %do;
%let n=r_&var1;
%let m=s_&var1;
data s_&var1(rename=(semean&i=s_&var1));
set in.&type._&var1(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var1;
set in2.h&i.&var1(rename=(resid&i=r_&var1));
proc sort data=r_&var1; by mprid;
%end;
%if &var2~= %then %do;
%let n=%str(&n r_&var2);
%let m=%str(&m s_&var2);
data s_&var2(rename=(semean&i=s_&var2));
set in.&type._&var2(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var2;
set in2.h&i.&var2(rename=(resid&i=r_&var2));
proc sort data=r_&var2; by mprid;
%if &var3~= %then %do;
%let n=%str(&n r_&var3);
data s_&var3(rename=(semean&i=s_&var3));
set in.&type._&var3(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var3;
set in2.h&i.&var3(rename=(resid&i=r_&var3));
proc sort data=r_&var3; by mprid;
%let m=%str(&m s_&var3); %end;
%if &var4~= %then %do;
%let n=%str(&n r_&var4);
data s_&var4(rename=(semean&i=s_&var4));
set in.&type._&var4(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var4;
set in2.h&i.&var4(rename=(resid&i=r_&var4));
%let m=%str(&m s_&var4);
proc sort data=r_&var4; by mprid;
%end;
/* Merge residual files and estimate correlations */
data infile;
merge &n; by mprid;
proc sort; by &byvar;
proc corr outp=outf noprint;
by &byvar;
var &n;
weight &WGT.;
data outf;
set outf; by &byvar;
where _type_='CORR';
/* sum standard error of a row variable times correlation times standard error of each column
variable, then sum sums and take square root, divide by number of variables */
data final;
merge &m outf; by &byvar;
data final;
set final; by &byvar;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
%do j=1 %to &qcount;
if upcase(_name_) = upcase("R_&&var&j") then
sde=sum(sde,r_val(i)*s_&&var&j*s_val(i));
```

```
%end;
end;
data sefin&compos._&i ERROR;
set final;
by &byvar;
if first.&byvar then tv=0;
t.v+sde;
if last.&byvar then do;
if tv \ge 0 then sde&i=(tv**.5)/&qcount; /* RSG 06/22/2004 change to only do the power
calculation if the tv value is nonnegative*/
else if tv < 0 then do; /* RSG 06/22/2004 those with negative trend is set aside to print
out*/
       output error;
                                               and determine whether it is from nonmissing
data of 30 or more*/
       sde&i=.;
 end;
output sefin&compos._&i;
end;
run;
/* RSG 06/22/2004 - count how many nonmissing values are in the trend data
       to determine whether the negative trend in above datastep
       (tv < 0) is something to be concerned about */
proc means data=infile noprint;
by &byvar;
var &n;
output out=miss (drop=_type_ _freq_) n=;
data error2;
merge error(in=a drop=&n) miss(in=b);
by &byvar;
if a;
run;
proc print data=error2; /* RSG 06/22/2004 print out negative trend data and count of nonmissing
data*/
var &byvar tv &n;
title "ERROR - NEGAVTIVE TREND FOR &N IN GROUP=&I. AND COMPOSE=&COMPOS.";
run;
title ' '; /** RSG 06/22/2004 - BLANK OUT TITLE FOR NEXT LOOP **/
%if &i=1 %then %do;
data sefin&compos;
set sefin&compos._1(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%else %do;
data sefin&compos;
merge sefin&compos sefin&compos._&i(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%end;
%end;
data out. & type.compos & compos;
merge compos&compos sefin&compos; by &byvar;
run;
PROC PRINT DATA=OUT.&TYPE.COMPOS&COMPOS;
     TITLE1 COMPTITL;
RUN;
%MEND COMPOSIT;
*----;
       set the parameters here
*----;
* Call the macro for each composite ;
************
%COMPOSIT (type=R,compos=1,var1=R13029,var2=R13033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R13007,var2=R13010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R13021,var2=R13022,var3=R13023,var4=R13024,qcount=4);
```

```
%COMPOSIT (type=R,compos=4,var1=R13041,var2=R13042,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R13046,var2=R13047,qcount=2);
```

$G.1.K \quad Q3FY2013 \\ \label{eq:capproc} PROGRAMS \\ \label{eq:capproc} ReportCards \\ \label{eq:capproc} CAHPS_AdultQ3FY2013 \\ \label{eq:capproc} FILES.INC - Include file in composit.sas.$

SET IN.R_R13046 IN.R_R13047

G.2.A Q3FY2013\PROGRAMS\LOADWEB\CAHPS_AdultQ3FY2013\LOADCAHQ.SAS - Convert CAHPS Scores into WEB layout - Run Ouarterly.

```
* PROGRAM: LOADCAHQ.SAS
* TASK:
            Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Convert the CAHPS Scores Database into the WEB layout
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.SAS.
* INPUTS:
            1) CAHPS Individual and Composite data sets with adjusted scores
            1) LOADCAHQ.sas7bdat - Combined CAHPS Scores Database in WEB layout
 OUTPUT:
 INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
               and composite data sets
* NOTES:
* 1) The following steps need to be run prior to this program:
     - STEP1Q.SAS - Recode questions and generate group files
- STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
     - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
 2) The output file (LOADCAHQ.sas7bdat) will be run through the
    MAKEHTMQ.SAS program to generate the WEB pages.
 MODIFIED:
  1) 04/10/2002 BY MIKE SCOTT, Updated variable names for 2002 survey.
  2) 03/21/2003 BY MIKE SCOTT, Updated variable names for 2003 survey.
   3) 06/25/2003 BY MIKE SCOTT, Updated for Q2 2003.
  4) 07/03/2003 BY MIKE SCOTT, Added TIMEPD variable to be set to the period
      or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
      setting to 'Composite'.
  5) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003.
  6) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
  7) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
  8) 06/15/2004 BY REGINA GRAMSS, Updated for q2 2004.
  9) 09/2004 BY REGINA GRAMSS, Updated for Q3 2004, changed all reference
      to XREGION to XTNEXREG.
^{\star} 10) 01/2005 BY REGINA GRAMSS, Changed XTNEXREG to XSERVREG to include
      service affiliation into regions.
* 11) 04/2005 BY REGINA GRAMSS, Updated 2004 field names for 2005.
* 12) 07/2005 BY REGINA GRAMSS, updated for Q2 2005.
* 13) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005 * 14) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
* 15) 03/21/2006 BY KEITH RATHBUN, Updated variable names for 2006 survey.
* 16) 07/12/2006 by Justin Oh, updated for Q3 FY 2006
* 17) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3
      Changed Libname IN for Q4FY2006.
* 18) 12/15/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q4
      Changed Libname IN for Q1FY2007.
* 19) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1
      Changed Libname IN for Q2FY2007.
 20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
      ReportCards OR PurchasedReportCards.
 21) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3
      Changed Libname IN for Q4FY2007.
  22) 01/10/2008 BY KEITH RATHBUN, Updated variable names for 2008 survey.
 23) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1
      Changed Libname IN for Q2FY2008.
 24) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2
      Changed Libname IN for Q3FY2008.
 25) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3
      Changed Libname IN for Q4FY2008.
 26) 04/11/2009 by Mike Rudacille - Changed variable names to reflect
      modifications to beneficiary reports necessary for V4
 27) 06/22/2009 by Keith Rathbun - Updated BENTYPE composite year to 2009 Q2
      Changed Libname IN for Q3FY2009.
* 28) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3
```

```
Changed Libname IN for Q4FY2009.
* 29) 10/17/2009 by Emma Ernst- Updated variables for Q12010
     Changed Libname IN for Q1FY2010.
 30) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1
    Changed Libname IN for Q2FY2010.
 31) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2
    Changed Libname IN for Q3FY2010.
* 32) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3
    Changed Libname IN for Q4FY2010.
\star 33) 12/01/2010 by Mike Rudacille - Updated variables for Q12011
    Updated BENTYPE composite year to 2010 Q4
    Changed Libname IN for Q1FY2011.
* 34) 02/24/2010 by Mike Rudacille - Updated BENTYPE composite year to 2011 Q1
    Changed Libname IN for Q2FY2011.
\star 35) 12/10/2011 by Mike Rudacille - Updated variables for Q12012
    Updated BENTYPE composite year to 2011 Q4
    Changed Libname IN for Q1FY2012
^{\star} 36) 3/5/2012 by Amanda Kudis - Changed libname IN and Year Marco Var for Q2.
* 37) 6/20/2012 by Amanda Kuis - Updated for Q3FY2012.
 38) 8/23/2012 by Christine Cheu - Updated for Q4FY2012.
* 39) 12/27/2012 by Aimee Valenzuela - Updated for Q1FY2013.
* 40) 03/23/2013 by Mike Rudacille - Updated for Q2FY2013.
*****
* Assign data libraries and options
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
LIBNAME IN "..\.\&RCTYPE\CAHPS_ADULTQ3FY2013\DATA"; LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
*************************
* Load Format definitions for CAHPS Individual and composite data sets.
***********************
%INCLUDE "..\LOADCAHQ.INC";
*******************
* Process Macro Input Parameters:
* 1) QUESTION = Variable Question Name (DSN).
   - For individual Questions it is the variable name
    - For composite Questions it is called xCOMPOSn
     where n = a predefined composite # and
         x = R (Region) or C (Catchment)
* 2) TYPE = Type of Score (COMPOSITE or INDIVIDUAL)
* 3) REGCAT = Region/Catchment Area
************************
%MACRO PROCESS(QUESTION=,TYPE=);
***************
* Assign value for BENTYPE composite year
*************************
%LET YEAR = "2013 Q2"; * Note that this is based on Calendar Year here;
******************
* Assign prefix for weighted/unweighted count variables.
* Unweighted counts is REGCNTn where n=group number.
* Weighted counts is REGWGTn where n=group number.
******************************
%LET PREFIX = REG;
************************
* Convert the CAHPS individual Scores Record into WEB layout.
* There are 8 logical records (adjusted scores) per physical record
```

```
************************
DATA &OUESTION;
 SET IN. & QUESTION;
 LENGTH MAJGRP $30;
  LENGTH REGION $30; **RSG 01/2005 - Changed format to be large enough to include service
affiliation;
 LENGTH REGCAT $30; **MER 11/07/2012 - Changed REGION and REGCAT to be large enough for Joint
Services;
 LENGTH BENTYPE $50;
 LENGTH BENEFIT $34;
 LENGTH TIMEPD $35; **MJS 07/03/03 Added line;
  ********************
  * Assign Region
  *************************
  REGION = PUT(XSERVREG, SERVREGF.);
  * Assign benefit and benefit type
  IF "&TYPE" = "INDIVIDUAL" THEN DO;
    IF DEPENDNT IN("R13018","R13048","R13027","R13031") THEN
     BENTYPE = "Composite"; ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR, $BENTYPF.);
    ELSE
     BENTYPE = PUT(DEPENDNT, $BENTYPF.);
    BENEFIT = PUT(DEPENDNT, $BENEF.);
    TIMEPD = PUT(&YEAR, $BENTYPF.); ***MJS 07/03/03 Added line;
  END;
  ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
    BENTYPE = "Composite"; ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR, $BENTYPF.);
    BENEFIT = PUT(DEPENDNT, $BENEF.);
                          ***MJS 07/03/03 Added line;
   TIMEPD = PUT(&YEAR,$BENTYPF.);
  END;
  ELSE PUT "ERROR - Invalid TYPE = &TYPE";
  ******************
  * For now, Initialize Significance test to zero.
  **********************
  SIG = 0;
  ***********************
  * Assign Region
  REGCAT = PUT(XSERVREG, SERVREGF.);
  *****************
  * 1 = Prime Enrollees
  MAJGRP = PUT(1,MAJGRPF.);
  SCORE = ADJ1;
  SEMEAN = SEMEAN1;
  N_OBS = &PREFIX.CNT1;
  N_WGT = &PREFIX.WGT1;
 OUTPUT;
  *******************
  * 2 = Enrollees with Military PCM
  *****************
  MAJGRP = PUT(2,MAJGRPF.);
  SCORE = ADJ2;
  SEMEAN = SEMEAN2;
  N_OBS = &PREFIX.CNT2;
 N_WGT = &PREFIX.WGT2;
 OUTPUT;
  ******************
  * 3 = Enrollees with Civilian PCM
  MAJGRP = PUT(3,MAJGRPF.);
  SCORE = ADJ3;
  SEMEAN = SEMEAN3;
 N_OBS = &PREFIX.CNT3;
 N_WGT = &PREFIX.WGT3;
  OUTPUT;
```

```
******************
  * 4 = Non-enrolled Beneficiaries
                      *******************************
 MAJGRP = PUT(4, MAJGRPF.);
  SCORE = ADJ4;
 SEMEAN = SEMEAN4;
 N_OBS = &PREFIX.CNT4;
 N_WGT = &PREFIX.WGT4;
 OUTPUT;
  *********************
  * 5 = Active Duty
  MAJGRP = PUT(5,MAJGRPF.);
  SCORE = ADJ5;
  SEMEAN = SEMEAN5;
 N OBS = &PREFIX.CNT5;
 N_WGT = &PREFIX.WGT5;
 OUTPUT;
  ******************
  * 6 = Active Duty Dependents
  **********************
 MAJGRP = PUT(6,MAJGRPF.);
  SCORE = ADJ6;
  SEMEAN = SEMEAN6;
 N_OBS = &PREFIX.CNT6;
 N_WGT = &PREFIX.WGT6;
 OUTPUT;
  *******************
  * 7 = Retirees and Dependents
  MAJGRP = PUT(7,MAJGRPF.);
  SCORE = ADJ7;
  SEMEAN = SEMEAN7;
 N_OBS = &PREFIX.CNT7;
 N WGT = &PREFIX.WGT7;
 OUTPUT;
  ******************
 * 8 = All Beneficiaries
                   ALL Beneficiaries
  MAJGRP = PUT(8,MAJGRPF.);
 SCORE = ADJ8;
  SEMEAN = SEMEAN8;
 N_OBS = &PREFIX.CNT8;
 N_WGT = &PREFIX.WGT8;
 OUTPUT;
KEEP MAJGRP
   REGION
   REGCAT
   BENTYPE
   BENEFIT
   TIMEPD /*MJS 07/03/03 Added*/
   SCORE
   SEMEAN
   N OBS
   N_WGT
   SIG
RUN;
%MEND;
************************
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
************************
%PROCESS(QUESTION=RCOMPOS1,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13029,TYPE=INDIVIDUAL);
```

```
%PROCESS(QUESTION=R_R13033,TYPE=INDIVIDUAL);
*******************
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*************************
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13007,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13010,TYPE=INDIVIDUAL);
******************
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
**************************
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13021,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13022,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R R13023, TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13024,TYPE=INDIVIDUAL);
* COMPOSITE # 4.
* CUSTOMER SERVICE.
*************************
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13041,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13042,TYPE=INDIVIDUAL);
*************************
* COMPOSITE # 5
* CLAIMS PROCESSING.
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13046,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13047,TYPE=INDIVIDUAL);
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*************************
%PROCESS(QUESTION=R R13018, TYPE=INDIVIDUAL);
**************************
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
                %PROCESS(QUESTION=R_R13048, TYPE=INDIVIDUAL);
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****************************
%PROCESS(QUESTION=R_R13027,TYPE=INDIVIDUAL);
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
************************
%PROCESS(QUESTION=R_R13031,TYPE=INDIVIDUAL);
***********************
******************
* STACK up all of the files into one final output dataset.
DATA OUT.LOADCAHQ;
  SET R R13029
    R_R13033
    R R13007
    R_R13010
    R_R13021
    R_R13022
    R_R13023
```

```
R_R13024
       R_R13041
       R_R13042
       R_R13046
       R_R13047
       R_R13018
       R_R13048
       R_R13027
       R_R13031
       RCOMPOS1
       RCOMPOS2
       RCOMPOS3
       RCOMPOS4
       RCOMPOS5
    IF SCORE = . THEN DELETE;
RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: LOADCAHQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHQ.SAS7BDAT - Combined CAHPS Scores Database in WEB layout";
PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
       REGION*REGCAT
      /MISSING LIST;
RUN;
```

G.2.B Q3FY2013\PROGRAMS\LOADWEB\LOADCAHQ.INC - Format definitions for converting the Scores Database into the WEB layout - Run Ouarterly.

```
* PROGRAM: LOADCAHQ.INC
* TASK:
           QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE:
           Format definitions for converting the CAHPS Scores Database
           into the WEB layout.
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.INC.
* MODIFIED: 1) 08/13/2001 BY KEITH RATHBUN, Added XSERVAFF format to
              accommodate the short reports.
           2) 01/24/2002 BY KEITH RATHBUN, Added BENTYPF = 1998,1999,2000
              added catchment composites.
           3) 04/10/2002 BY KEITH RATHBUN, Added parameters for 2002 survey.
           4) 04/03/2003 BY MIKE SCOTT, Added parameters for 2003 survey.
           5) 07/08/2003 BY MIKE SCOTT, Added formats GETNCARE, GETCAREQ,
              CRTSHELP, HOWWELL, CUSTSERV, CLMSPROC, and PREVCARE.
           6) 03/22/2004 BY KEITH RATHBUN, Added parameters for 2004 survey.
              Changed R04031 to be "Wait Less than 15 Minutes For Appointment".
           7) 05/06/2004 BY MIKE SCOTT, Changed R04031 back to 2003 version of
              the label ("Wait More than 15 Minutes Past Appointment") so that
              the Q1 2004 version of the question is consistent with past
              versions. The label will be changed to the new version ("Waiting
               in the Doctor's Office") in Makehtmq.sas.
           8) 02/2006 BY REGINA GRAMSS, Changed date format to fielding dates.
           9) 03/21/2006 BY KEITH RATHBUN, Added parameters for 2006 survey.
          10) 08/22/2006 BY JUSTIN OH, Changed SERVREGF format for Overseas.
          11) 12/15/2006 BY JUSTIN OH, Added parameters for 2007 survey.
          12) 02/02/2007 BY JUSTIN OH, Added "s" in Healthy Behaviors in VALUE BEN.
          13) 01/10/2008 BY KEITH RATHBUN, Added parameters for 2008 survey.
          14) 01/09/2009 BY MIKE RUDACILLE, Added parameters for 2009 survey.
          14) 01/16/2009 BY MIKE RUDACILLE, Changed CONUS to USA.
          15) 04/11/2009 by Mike Rudacille - Changed formats to reflect
               modifications to beneficiary reports necessary for V4
          16) 12/17/09 by Emma Ernst, Added parameters for 2010 survey.
          17) 12/02/10 by Mike Rudacille, Added parameters for 2011 survey.
              Also removed 2000 parameters for space considerations.
          18) 12/10/11 by Mike Rudacille, Added parameters for 2012 survey.
              Also removed 2002 parameters for space considerations.
           19) 11/03/12 by Mike Rudacille, Updated for handling of
              Joint Service facilities
           20) 12/27/12 by Aimee Valenzuela, Added parameters for 2013 survey.
 INPUTS:
           No direct input
 OUTPUT:
           No direct output
           1) Under the new contract (8860), the survey year was changed
 NOTES:
              to be based on the year the survey is administered (2002)
              as opposed to the questioning reference frame (2001).
              include file contains variable names for both the 2001
              survey administration year and the the 2002 administration
              year surveys.
* FORMAT Definitions
*************************
PROC FORMAT;
   VALUE MAJGRPF
     1 = "Prime Enrollees
     2 = "Enrollees with Military PCM"
     3 = "Enrollees with Civilian PCM"
     4 = "Non-enrolled Beneficiaries "
     5 = "Active Duty
     6 = "Active Duty Dependents
      7 = "Retirees and Dependents
```

```
8 = "All Beneficiaries
  VALUE XSERVAFF
     1 = "ARMY"
     2 = "AIR FORCE"
     3 = "NAVY"
     4 = "OTHER"
     5 = "JOINT SERVICE"
  VALUE REGIONF
     0 = "USA MHS "
     1 = "North"
     2 = "South"
     3 = "West"
     4 = "Overseas"
/*JSO 08/24/2006, Changed Overseas to Service for Europe, Pacific, Latin*/
  VALUE SERVREGF
     1 = "North Army"
     2 = "North Air Force"
     3 = "North Navy"
     4 = "North Other"
     5 = "North Joint Service"
     6 = "South Army"
     7 = "South Air Force"
     8 = "South Navy"
     9 = "South Other"
     10 = "South Joint Service"
     11 = "West Army"
     12 = "West Air Force"
    13 = "West Navy"
    14 = "West Other"
     15 = "West Joint Service"
     16 = "Europe Army"
     17 = "Europe Air Force"
     18 = "Europe Navy"
     19 = "Europe Other"
     20 = "Europe Joint Service"
     21 = "Pacific Army"
     22 = "Pacific Air Force"
     23 = "Pacific Navy"
     24 = "Pacific Other"
     25 = "Pacific Joint Service"
     26 = "Latin America Army"
     27 = "Latin America Air Force"
     28 = "Latin America Navy"
     29 = "Latin America Other"
     30 = "Latin America Joint Service"
     31 = "USA ARMY"
     32 = "USA AIR FORCE"
     33 = "USA NAVY"
     34 = "USA OTHER";
/*JSO 08/24/2006, Changed Overseas to Europe, Pacific, Latin*/
  VALUE SERVREGO
     1 = "North Army"
     2 = "North Air Force"
     3 = "North Navy"
     4 = "North Other"
     5 = "North Joint Service"
     6 = "South Army"
     7 = "South Air Force"
     8 = "South Navy"
     9 = "South Other"
     10 = "South Joint Service"
     11 = "West Army"
    12 = "West Air Force"
    13 = "West Navy"
     14 = "West Other"
    15 = "West Joint Service"
     16 = "Overseas Europe"
     17 = "Overseas Pacific"
```

```
18 = "Overseas Latin America";
  VALUE $BENTYPF
   "2004 Q2 " = "April, 2003 to March, 2004
   "2004 Q3 " = "Quarter 3, CY 2004
   "2004 Q4 " = "Quarter 4, CY 2004
   "2005 Q1 " = "January, 2005
   "2005 Q2 " = "April, 2005
   "2005 Q3 " = "July, 2005
   "2005 Q4 " = "October, 2005
   "2006 Q1 " = "January, 2006
   "2006 Q2 " = "April, 2006
   "2006 Q3 " = "July, 2006
   "2006 Q4 " = "October, 2006
   "2007 Q1 " = "January, 2007
   "2007 Q2 " = "April, 2007
   "2007 Q3 " = "July, 2007
   "2007 Q4 " = "October, 2007
   "2008 Q1 " = "January, 2008
   "2008 Q2 " = "April, 2008
   "2008 Q3 " = "July, 2008
   "2008 Q4 " = "October, 2008
   "2009 Q1 " = "January, 2009
   "2009 Q2 " = "April, 2009
   "2009 Q3 " = "July, 2009
   "2009 Q4 " = "October, 2009
   "2010 Q1 " = "January, 2010
   "2010 Q2 " = "April, 2010
   "2010 Q3 " = "July, 2010
   "2010 Q4 " = "October, 2010
   "2011 Q1 " = "January, 2011
   "2011 Q2 " = "April, 2011
   "2011 Q3 " = "July, 2011
   "2011 Q4 " = "October, 2011
   "2012 Q1 " = "January, 2012
   "2012 Q2 " = "April, 2012
   "2012 Q3 " = "July, 2012
   "2012 Q4 " = "October, 2012
   "2013 Q1 " = "January, 2013
   "2013 Q2 " = "April, 2013
   "2013 Q3 " = "July, 2013
   "2013 Q4 " = "October, 2013
/************************************
  /* Admin. Year Defn.
   /* 2004
               2005
                     2006 2007 2008 2009 2010 2011
2013
"R04013", "R05013", "R06013", "R07013", "R08013", "R09029", "R10029", "R11029", "R12029",
"R13029" = "Getting to See a Specialist
   "R04028", "R05027", "R06027", "R07027", "R08027", "R09033", "R10033", "R11033", "R12033",
"R13033" = "Getting Treatment
   "R04020", "R05019", "R06019", "R07019", "R08019", "R09007", "R10007", "R11007", "R12007",
"R13007" = "Wait for Urgent Care" "
"R04023", "R05022", "R06022", "R07022", "R08022", "R09010", "R10010", "R11010", "R12010",
"R13010" = "Wait for Routine Visit
   "R04034", "R05033", "R06033", "R07033", "R08033", "R09021", "R10021", "R11021", "R12021",
"R13021" = "Listens Carefully
   "R04035", "R05034", "R06034", "R07034", "R08034", "R09022", "R10022", "R11022", "R12022",
"R13022" = "Explains so You Can Understand
   "R04036", "R05035", "R06035", "R07035", "R08035", "R09023", "R10023", "R11023", "R12023",
"R13023" = "Shows Respect
   "R04037", "R05036", "R06036", "R07036", "R08036", "R09024", "R10024", "R11024", "R12024",
"R13024" = "Spends Time with You
   "R04045", "R05043", "R06043", "R07043", "R08043", "R09040", "R10040", "R11041", "R12041",
"R13041" = "Getting Information
   "R04047", "R05045", "R06045", "R07045", "R08045", "R09041", "R10041", "R11042", "R12042",
```

"R13042" = "Courteous Customer Service

```
"R04041", "R05040", "R06040", "R07040", "R08040", "R09045", "R10045", "R11046", "R12046",
"R13046" = "Claims Handled in a Reasonable Time"
    "R04042", "R05041", "R06041", "R07041", "R08041", "R09046", "R10046", "R11047", "R12047",
"R13047" = "Claims Handled Correctly
    "R04038", "R05037", "R06037", "R07037", "R08037", "R09018", "R10018", "R11018", "R12018",
"R13018" = "Health Care
    "R04054", "R05048", "R06048", "R07048", "R08048", "R09047", "R10047", "R11048", "R12048",
"R13048" = "Health Plan
   "R04009", "R05009", "R06009", "R07009", "R08009", "R09027", "R10027", "R11027", "R12027",
"R13027" = "Primary Care Manager
   "R04015", "R05015", "R06015", "R07015", "R08015", "R09031", "R10031", "R11031", "R12031",
"R13031" = "Specialty Care
                             "PHYSIC " = "Physical
                             "MENTAL " = "Mental
  VALUE SBENEF
    "RCOMPOS1", "CCOMPOS1", "R04013", "R04028",
                           "R05013", "R05027",
                           "R06013", "R06027",
                           "R07013", "R07027",
                           "R08013", "R08027",
                           "R09029", "R09033",
                           "R10029", "R10033",
                           "R11029", "R11033",
                           "R12029", "R12033",
                           "R13029","R13033"
   = "Getting Needed Care "
    "RCOMPOS2", "CCOMPOS2", "R04020", "R04023",
                           "R05019", "R05022",
                           "R06019", "R06022",
                           "R07019", "R07022",
                           "R08019", "R08022",
                           "R09007", "R09010",
                           "R10007", "R10010",
                           "R11007", "R11010",
                           "R12007", "R12010",
                           "R13007", "R13010"
    = "Getting Care Quickly "
    "RCOMPOS3", "CCOMPOS3", "R04034", "R04035", "R04036", "R04037",
                           "R05033", "R05034", "R05035", "R05036",
                           "R06033", "R06034", "R06035", "R06036",
                           "R07033", "R07034", "R07035", "R07036",
                           "R08033", "R08034", "R08035", "R08036",
                           "R09021", "R09022", "R09023", "R09024",
                           "R10021", "R10022", "R10023", "R10024",
                           "R11021", "R11022", "R11023", "R11024",
                           "R12021", "R12022", "R12023", "R12024",
                           "R13021", "R13022", "R13023", "R13024"
    = "How Well Doctors Communicate "
    "RCOMPOS4", "CCOMPOS4", "R04045", "R04047",
                           "R05043","R05045",
                           "R06043", "R06045",
                           "R07043","R07045",
                           "R08043", "R08045",
                           "R09040","R09041",
                           "R10040", "R10041",
                           "R11041", "R11042",
                           "R12041", "R12042",
                           "R13041", "R13042"
    = "Customer Service
    "RCOMPOS5", "CCOMPOS5", "R04041", "R04042",
                           "R05040", "R05041",
                           "R06040", "R06041",
                           "R07040","R07041",
                           "R08040","R08041",
                           "R09045", "R09046",
                           "R10045", "R10046",
                           "R11046","R11047",
                           "R12046", "R12047",
```

```
"R13046", "R13047"
   = "Claims Processing
   "RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
   = "Health Status
/**********************************
   /* Admin. Year Defn.
   /* 2004
                                                             2010
              2005
                       2006
                                2007
                                         2008
                                                   2009
                                                                      2011
2013 */
"R04038", "R05037", "R06037", "R07037", "R08037", "R09018", "R10018", "R11018", "R12018",
"R13018" = "Health Care
   "R04054", "R05048", "R06048", "R07048", "R08048", "R09047", "R10047", "R11048", "R12048",
"R13048" = "Health Plan
   "R04009", "R05009", "R06009", "R07009", "R08009", "R09027", "R10027", "R11027", "R12027",
"R13027" = "Primary Care Manager
   "R04015", "R05015", "R06015", "R07015", "R08015", "R09031", "R10031", "R11031", "R12031",
"R13031" = "Specialty Care
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
 1 = 'Getting Needed Care'
 2 = 'Getting Care Quickly'
 3 = 'How Well Doctors Communicate'
 4 = 'Customer Service'
 5 = 'Claims Processing'
 6 = 'Health Plan'
 7 = 'Health Care'
 8 = 'Primary Care Manager'
 9 = 'Specialty Care'
10 = 'Preventive Care'
11 = 'Healthy Behaviors';
 VALUE MAJOR
 1 = "Prime Enrollees
 2 = "Enrollees with Military PCM"
 3 = "Enrollees with Civilian PCM"
  4 = "Non-enrolled Beneficiaries "
 5 = "Active Duty
 6 = "Active Duty Dependents
 7 = "Retirees and Dependents "
 8 = "All Beneficiaries
 VALUE GETNCARE
 1 = "Getting to See a Specialist"
 2 = "Getting Treatment"
 3 = "Composite";
 VALUE GETCAREQ
 1 = "Wait for Routine Visit"
  2 = "Wait for Urgent Care"
 3 = "Composite";
 VALUE HOWWELL
 1 = "Listens Carefully"
  2 = "Explains so You Can Understand"
 3 = "Shows Respect"
  4 = "Spends Time with You"
 5 = "Composite";
 VALUE CUSTSERV
 1 = "Getting Information"
  2 = "Courteous Customer Service"
 3 = "Composite";
 VALUE CLMSPROC
 1 = "Claims Handled in a Reasonable Time"
```

2 = "Claims Handled Correctly"

```
3 = "Composite";

VALUE PREVCARE
1 = "Mammography"
2 = "Pap Smear"
3 = "Hypertension"
4 = "Prenatal Care"
5 = "Composite";

VALUE SMOKEF
1 = "Non-Smoking Rate"
2 = "Counselled To Quit"
3 = "Percent Not Obese"
4 = "Composite";

RUN;
```

G.3.A Q1FY2013\PROGRAMS\BENCHMARK\BENCHA01.SAS - Extract Adult CAHPS Questions from NCBD - Run Ouarterly.

```
******************
* PROGRAM: BENCHA01.SAS
* TASK:
           Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Extract Adult CAHPS Questions
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
* INPUTS:
          1) AC2009DB.sas7bdat - 2009 Adult CAHPS Questions
* OUTPUT:
          1) BENCHA01.sas7bdat - 2009 Adult CAHPS Questions Renamed to be
             consistent with the 2009 MPR DOD Survey.
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
           2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
             Survey.
           3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
           4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
           5) 05/06/2003 BY MIKE SCOTT, Updated for 2002 benchmarks.
           6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
           7) 04/16/2004 BY KEITH RATHBUN, Updated to use 2003 NCBD.
           8) 05/17/2005 BY REGINA GRAMSS, Updated for Q1 2005.
           9) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
             Changed variable names to match the 2006 HCSDB survey.
              Changed CAHPS variable names to match those in 2005 NCBD.
          10) 02/21/2007 BY JUSTIN OH, Updated for Q1 FY 2007.
              Changed variable names to match the 2006 HCSDB survey.
             Changed CAHPS variable names to match those in 2006 NCBD.
             Changed SREDHIGH varible AC60_05 to AC58_06
          11) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
              Changed variable names to match the 2008 HCSDB survey.
          12) 01/05/2009 BY MIKE RUDACILLE, Updated for Q1 FY 2009.
             Changed variable names to match the 2009 HCSDB survey.
          13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
             modifications to beneficiary reports necessary for V4
          14) May 5, 2009 by Mike Rudacille, Updated for 2008 benchmarks.
          15) December 21, 2009 by Emma Ernst for Q1FY2010
          16) March 30, 2010 by Mike Rudacille, Updated for 2009 benchmarks
          17) December 2, 2010 by Mike Rudacille, Updated for Q1 FY 2011.
             Changed variable names to match the 2011 HCSDB survey.
          18) March 31, 2011 by Mike Rudacille, Updated for 2010 benchmarks
          19) December 10, 2011 by Mike Rudacille, Updated for Q1 FY 2012.
             Changed variable names to match the 2012 HCSDB survey.
          20) April 4, 2012 by Amanda Kudis, updated for 2011 benchmarks.
          21) January 10, 2013 by Aimee Valenzuela, updated for 2013, commented out
              lines 119-124, and removed model from keep statement.
* NOTES:
* 1) This program will generate the input for BENCHA02.SAS.
******************
* Assign data libraries and options
LIBNAME IN "..\..\2011AdultNCBD";
LIBNAME OUT "data";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
DATA OUT.BENCHA01;
  SET IN.AC2011DB (RENAME=(BIRTHYY=YOB));
  FORMAT _ALL_;
  H13019 = AC13 11;
  * Getting Needed Care
  H13029 = AC23_11;
  H13033 = AC27_11;
                     *******
  * Getting Care Quickly
```

```
H13007 = AC04_11;

H13010 = AC06_11;
 * How Well Doctors Communicate
 *****************************
 H13021 = AC16_11;
 H13022 = AC15_11;
 H13023 = AC17_11;
H13024 = AC18_11;
                    *******
 * Customer Service
 ****************
 H13035 = AC29_11;
 H13041 = AC35_{11};
 H13042 = AC36_11;
 *******
 * Claims Processing
 ****************
 H13046 = AC40_11;
 H13047 = AC41_11;
 **********
 * Health Care Rating
 ****************
 H13018 = AC12_11;
 **********
 * Health Plan Rating
 ****************
 H13048 = AC42_{11};
 **********
 * Personal Doctor Rating
 H13027 = AC21_11;
  ************
 * Specialist Rating
 **************
 H13031 = AC25_{11};
 ***********
 * Health Status
 **************
 H13065 = AC43_11;
 AGEGROUP = AGE; *NEED TO USE USE THIS DIRECTLY (already grouped);
 XSEXA = GENDER;
 SREDHIGH = AC60_{11}; /* MER 03/31/11 changed AC55_{09} to AC60_{10} */
 SRRACEA=AC62A_11; /* MER 03/31/11 changed AC57A_09 thru AC57E_09 to AC62A_10 thru AC62E_10
 SRRACEB=AC62B_11;
 SRRACEC=AC62E 11;
 SRRACED=AC62C_11;
 SRRACEE=AC62D 11;
                  /* MER 03/31/11 chaned AC56_09 to AC61_10 */
 H13073=AC61_11;
 *if product in (7,9) then model=4; /*MJS 05/06/03 product now numeric*/
 *if product=3 then model=2;
                                          /*coded according to AC FORMATS.SAS*/
 *if product=1 then model=1;
 *if product=4 then model=6;
 *if product=8 then model=5;
 *if product=2 then model=3;
 nproduct=planid+0;
                                            /*MJS 05/06/03 was plnid now planid*/
LABEL H13029
              = "AC23_11 - Got appointment with a specialist"
             = "AC27_11 - Got necessary care"
     H13033
              = "AC04_11 - Got urgent care quickly"
= "AC06_11 - Got routine care quickly"
      H13007
     H13010
             = "AC16_11 - Doctors/providers listened carefully"
     H13021
             = "AC15_11 - Doctors/providers explained things"
      H13022
             = "AC17_11 - Doctors/providers showed respect"
= "AC18_11 - Doctors/providers spent enough time"
      H13023
     H13024
             = "AC35_11 - Customer service provided needed info"
      H13041
              = "AC36_11 - Customer services was courteous"
      H13042
              = "AC40_11 - Claims handled quickly"
      H13046
             = "AC41_11 - Claims handled correctly"
     H13047
      H13018 = "AC12_11 - Rating of health care"
              = "AC42_11 - Rating of health plan"
      H13048
```

```
H13027
                = "AC21_11 - Rating of personal doctor or nurse"
                = "AC25_11 - Rating of specialist seen most often"
= "AC43_11 - Rating of overall health"
        H13031
        H13065
        AGEGROUP = "AGE - Imputed adult age"
                 = "GENDER - Gender (equal to AC59_10 or SEX)"
        XSEXA
        SREDHIGH = "AC60_11 - Highest grade finished" /*JSO 02/21/06 chged AC60_05 to AC58_06
* /
       H13029
KEEP
        H13033
        н13007
        H13010
        H13021
        H13022
        H13023
        H13024
        H13041
        H13042
        H13046
        H13047
        н13018
        H13048
        H13027
        H13031
        Н13065
        H13035
        AGEGROUP
        XSEXA
        SREDHIGH
        NPRODUCT
        DISP
        YOB
        SRRACEA--SRRACEE
        H13073
        H13019
RUN;
TITLE1 "Extract Adult CAHPS Questions (DoD)";
TITLE2 "Program Name: BENCHA01.SAS By Keith Rathbun";
TITLE3 "Program Input: AC2011DB.sas7bdat";
TITLE4 "Program Output: BENCHA01.sas7bdat";
PROC CONTENTS; RUN;
PROC FREQ;
TABLES _ALL_ /MISSING LIST;
```

G.3.B Q1FY2013\PROGRAMS\BENCHMARK\BENCHA02.SAS - Recode Adult CAHPS Questions from NCBD to be consistent with the HCSDB - Run Quarterly.

```
* PROGRAM: BENCHA02.SAS
* TASK:
           Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Recode Adult CAHPS Questions
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
* INPUT:
          1) BENCHA01.sas7bdat - Adult CAHPS Questions Renamed to be
             consistent with the MPR DOD Survey.
* OUTPUT: 1) BENCHA02.sas7bdat - Recoded Adult CAHPS Questions Renamed
             to be consistent with the MPR DOD Survey.
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
           2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
             Survey.
           3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
           4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
           5) 05/06/2003 BY MIKE SCOTT, Changed labels from _01 to _02.
           6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
           7) April 2004 By Keith Rathbun, Removed reverse coding for
             H04031. 2004 survey question wording is 'Within 15 minutes'
              instead of "More than 15 Minutes". Updated CAHPS variable
              labels to be consistent with 2003 NCBD.
           8) 06/2005 By Regina Gramss, Updated codes with 2005 variable
              names/labels.
           9) 03/24/2006 BY KEITH RATHBUN, Updated for 2006 survey.
             Changed CAHPS variable names to match those in 2005 NCBD.
          10) 01/10/2008 BY KEITH RATHBUN, Updated for 2008 survey.
          11) 01/05/2009 BY MIKE RUDACILLE, Updated for 2009 survey.
          12) April 10, 2009 by Mike Rudacille, changed variable names to reflect
             modifications to beneficiary reports necessary for {\tt V4}
          13) December 21, 2009 by Emma Ernst, updated for Q1FY2010
          14) March 30, 2010 by Mike Rudacille, updated for Q2FY2010
             using 2009 NCBD benchmark data.
          15) December 2, 2010 by Mike Rudacille, Updated for 2011 survey.
          16) March 31, 2011 by Mike Rudacille, updated for Q2FY2011
             using 2010 NCBD benchmark data.
          17) December 10, 2011 by Mike Rudacille, Updated for 2011 survey.
          18) April 4, 2011 by Amanda Kudis, update for Q2FY2012 using 2011
             NCBD benchmark data.
          19) January 10, 2013 by Aimee Valenzuela, update for Q1FY2013
* NOTES:
* 1) Run this program after BENCHA01.SAS.
 2) This program will generate the input for BENCHA03.SAS.
**************************
* Assign data libraries and options
*******************
LIBNAME IN
              "data";
              "data";
LIBNAME OUT
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
DATA OUT.BENCHA02(rename=(nproduct=product));
  SET IN.BENCHA01;
  ******************
  * Recode variables with Never, Sometimes, Usually and Always.
  * Recode Never & Sometimes (1 & 2) to 1.
  * Recode Usually (3) to 2.
  * Recode Always (4) to 3.
                ***********************
  IF H13007 = 1
                    THEN R13007 = 1;
  ELSE IF H13007 = 2 THEN R13007 = 1;
  ELSE IF H13007 = 3 THEN R13007 = 2;
```

```
ELSE IF H13007 = 4 THEN R13007 = 3;
ELSE IF H13007 < 0 THEN R13007 = .;
IF H13010 = 1
                  THEN R13010 = 1;
ELSE IF H13010 = 2 THEN R13010 = 1;
ELSE IF H13010 = 3 THEN R13010 = 2;
ELSE IF H13010 = 4 THEN R13010 = 3;
ELSE IF H13010 < 0 THEN R13010 = .;
IF H13021 = 1
                   THEN R13021 = 1;
ELSE IF H13021 = 2 THEN R13021 = 1;
ELSE IF H13021 = 3 THEN R13021 = 2;
ELSE IF H13021 = 4 THEN R13021 = 3;
ELSE IF H13021 < 0 THEN R13021 = .;
IF H13022 = 1
                  THEN R13022 = 1;
ELSE IF H13022 = 2 THEN R13022 = 1;
ELSE IF H13022 = 3 THEN R13022 = 2;
ELSE IF H13022 = 4 THEN R13022 = 3;
ELSE IF H13022 < 0 THEN R13022 = .;
IF H13023 = 1
                  THEN R13023 = 1;
ELSE IF H13023 = 2 THEN R13023 = 1;
ELSE IF H13023 = 3 THEN R13023 = 2;
ELSE IF H13023 = 4 THEN R13023 = 3;
ELSE IF H13023 < 0 THEN R13023 = .;
IF H13024 = 1
                 THEN R13024 = 1;
ELSE IF H13024 = 2 THEN R13024 = 1;
ELSE IF H13024 = 3 THEN R13024 = 2;
ELSE IF H13024 = 4 THEN R13024 = 3;
ELSE IF H13024 < 0 THEN R13024 = .;
IF H13029 = 1
                  THEN R13029 = 1;
ELSE IF H13029 = 2 THEN R13029 = 1;
ELSE IF H13029 = 3 THEN R13029 = 2;
ELSE IF H13029 = 4 THEN R13029 = 3;
ELSE IF H13029 < 0 THEN R13029 = .;
IF H13033 = 1
                  THEN R13033 = 1;
ELSE IF H13033 = 2 THEN R13033 = 1;
ELSE IF H13033 = 3 THEN R13033 = 2;
ELSE IF H13033 = 4 THEN R13033 = 3;
ELSE IF H13033 < 0 THEN R13033 = .;
TF H13035 = 1
                  THEN R13035 = 1;
ELSE IF H13035 = 2 THEN R13035 = 1;
ELSE IF H13035 = 3 THEN R13035 = 2;
ELSE IF H13035 = 4 THEN R13035 = 3;
ELSE IF H13035 < 0 THEN R13035 = .;
IF H13041 = 1
                   THEN R13041 = 1;
ELSE IF H13041 = 2 THEN R13041 = 1;
ELSE IF H13041 = 3 THEN R13041 = 2;
ELSE IF H13041 = 4 THEN R13041 = 3;
ELSE IF H13041 < 0 THEN R13041 = .;
IF H13042 = 1
                 THEN R13042 = 1;
ELSE IF H13042 = 2 THEN R13042 = 1;
ELSE IF H13042 = 3 THEN R13042 = 2;
ELSE IF H13042 = 4 THEN R13042 = 3;
ELSE IF H13042 < 0 THEN R13042 = .;
IF H13046 = 1
                   THEN R13046 = 1;
ELSE IF H13046 = 2 THEN R13046 = 1;
ELSE IF H13046 = 3 THEN R13046 = 2;
ELSE IF H13046 = 4 THEN R13046 = 3;
ELSE IF H13046 < 0 THEN R13046 = .;
IF H13047 = 1
                 THEN R13047 = 1;
ELSE IF H13047 = 2 THEN R13047 = 1;
ELSE IF H13047 = 3 THEN R13047 = 2;
ELSE IF H13047 = 4 THEN R13047 = 3;
```

```
ELSE IF H13047 < 0 THEN R13047 = .;
   IF H13065 = 1
                             THEN R13065 = 5;
   ELSE IF H13065 = 2
                             THEN R13065 = 4;
                           THEN R13065 = 3;
   ELSE IF H13065 = 3
   ELSE IF H13065 = 4
                             THEN R13065 = 2;
   ELSE IF H13065 = 5
                          THEN R13065 = 1;
   ELSE IF H13065>5 | H13065<1 THEN R13065 = .;
   *******************
   * Recode variables to one missing condition "."
   * This also makes all the "H000xx" to "R000xx".
   ***********************
   R13027 = H13027; IF R13027 < 0 | R13027 > 10 THEN R13027 = .;
   R13031 = H13031; IF R13031 < 0 R13031>10 THEN R13031 = .;
   R13018 = H13018; IF R13018 < 0 | R13018 > 10 THEN R13018 = .; R13048 = H13048; IF R13048 < 0 | R13048 > 10 THEN R13048 = .; R13073 = H13073; IF R13073 < THEN R13073 = .;
                  = "AC04_11 - Got urgent care quickly"
= "AC06_11 - Got routine care quickly"
   LABEL R13007
         R13010
                  = "AC16_11 - Doctors/providers listened carefully"
         R13021
         R13022
                  = "AC15_11 - Doctors/providers explained things"
         R13023
                   = "AC17_11 - Doctors/providers showed respect"
                  = "AC18_11 - Doctors/providers spent enough time"
         R13024
                  = "AC23_11 - Got appointment with a specialist"
         R13029
                  = "AC27_11 - Got necessary care"
= "AC35_11 - Customer service provided needed info"
         R13033
         R13041
                  = "AC36_11 - Customer services was courteous"
         R13042
                  = "AC40_11 - Claims handled quickly"
= "AC41_11 - Claims handled correctly"
= "AC12_11 - Rating of health care"
         R13046
         R13047
         R13018
         R13027
                  = "AC21_11 - Rating of personal doctor or nurse"
                  = "AC25_11 - Rating of specialist seen most often"
= "AC42_11 - Rating of health plan"
         R13031
         R13048
                  = "AC43_11 - Rating of overall health"
         nPRODUCT = "Product ID - Unique plan ID";
       drop product;
RUN;
TITLE1 "Recode Adult CAHPS Questions (6244-410)";
TITLE2 "Program Name: BENCHA02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHA01.SAS7BDAT";
TITLE4 "Program Output: BENCHA02.SAS7BDAT";
PROC CONTENTS; RUN;
PROC FREO;
TABLES AGEGROUP
        XSEXA
        SREDHIGH
        R13007 * H13007
        R13010 * H13010
        R13021 * H13021
        R13022 * H13022
        R13023 * H13023
        R13024 * H13024
        R13029 * H13029
        R13033 * H13033
        R13041 * H13041
        R13042 * H13042
        R13046 * H13046
        R13047 * H13047
        R13018 * H13018
        R13027 * H13027
        R13031 * H13031
        R13048 * H13048
        R13065 * H13065
   /MISSING LIST;
RIIN;
```

G.3.C Q3FY2013\PROGRAMS\BENCHMARK\BENCHA03.SAS - Calculate CAHPS Benchmark data for HCSDB - Run Ouarterly.

```
* PROGRAM: BENCHA03.SAS
 TASK:
            Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
 PURPOSE: Adjust Adult CAHPS Benchmarks
 WRITTEN: June 2000 BY ERIC SCHONE
 INPUTS:
            1) BENCHA02.sas7bdat - 2010 Adult CAHPS Questions Renamed to be
               consistent with the 2011 MPR DOD Survey.
            2) GROUP8.sas7bdat - CAHPS Group8 (all beneficiaries) Dataset
 OUTPUTS: 1) Benchmark Composite Scores Data Sets
* MODIFIED: 1) Nov 2000 BY ERIC SCHONE - Output permanent datasets with
               scores and standard errors and process the rest of the
               composites and ratings.
            2) Dec 2000 BY KEITH RATHBUN - Update variable names for
               Q1 2000 Survey.
            3) Jan 2002 BY KEITH RATHBUN - Updated to run under SAS
               version 8 (changed INTERCEP to INTERCEPT).
            4) Apr 2002 BY MIKE SCOTT - Updated variable names for Q1
               2002 Survey.
            5) Jul 2002 BY MIKE SCOTT - Changed R00077 to R04075, since
               H02077 (health status) is back and was renamed to R04075
               in HSC022 1.sd2.
            6) Mar 2003 BY MIKE SCOTT - Updated for 2003 survey.
            7) May 2003 BY MIKE SCOTT - Changed ac03_01 to ac03_02.
            8) Jun 2003 BY MIKE SCOTT - Updated for Q2 2003.
           9) Oct 2003 BY MIKE SCOTT - Updated for Q3 2003.
10) Mar 2004 BY MIKE SCOTT - Updated for Q1 2004.
           11) April 2004 BY KEITH RATHBUN - Updated to use the CAHPS 2003
               variable ac03_03.
                12) June 2004 BY REGINA GRAMSS - Updated to use for Q2 2004
           13) Sept 2004 BY REGINA GRAMSS - Update for 03 2004
           14) May 2005 BY REGINA GRAMSS - Updated for Q1 2005
           15) Jul 2005 BY REGINA GRAMSS - Updated for Q2 2005
16) Oct 2005 BY REGINA GRAMSS - Updated for Q3 2005
           17) Dec 2005 BY REGINA GRAMSS - Updated for Q4 2005
           18) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
               Changed variable names to match the 2006 HCSDB survey.
           19) 07/12/2006 by Justin Oh - Updated for Q3 FY 2006.
           20) 10/03/2006 by Justin Oh - Changed libname in2 for Q4FY2006.
               Change the INCLUDE path to CONVERT.sas file.
           21) 12/18/2006 by Justin Oh - Changed libname in2 for Q1FY2007.
               Change the INCLUDE path to CONVERT.sas file.
           22) 04/05/2007 by Justin Oh - Changed libname in 2 for Q2FY2007.
               Change the INCLUDE path to CONVERT.sas file.
           23) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
               ReportCards OR PurchasedReportCards.
           24) 04/05/2007 by Keith Rathbun - Changed libname in 2 for Q3FY2007.
               Change the INCLUDE path to CONVERT.sas file.
           25) 09/04/2007 by Justin Oh - Changed libname in 2 for Q4FY2007.
               Change the INCLUDE path to CONVERT.sas file.
           26) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
               Changed variable names to match the 2008 HCSDB survey.
           27) 04/11/2008 by Justin Oh - Changed libname in 2 for Q2FY2008.
               Change the INCLUDE path to CONVERT.sas file.
           28) 06/13/2008 by Keith Rathbun - Changed libname in2 for Q3FY2008.
               Change the INCLUDE path to CONVERT.sas file.
           29) April 10, 2009 by Mike Rudacille, changed variable names to reflect
               modifications to beneficiary reports necessary for V4
           30) Sept 30, 2009 by Mike Rudacille - Changed libname in 2 for Q4FY2009.
               Change the INCLUDE path to CONVERT.sas file.
           31) December 17, 2009 by Emma Ernst- Changed libname in2 for Q1FY2010 and
               changed variable names.
           32) March 2, 2010 by Mike Rudacille - Changed libname in 2 for Q2FY2010.
               Change the INCLUDE path to CONVERT.sas file.
           33) March 30, 2010 by Mike Rudacille - Changed libname in to get
```

```
benchmark data from Q2FY2010 (2009 NCBD benchmark data).
           34) June 19, 2010 by Mike Rudacille - Changed libname in 2 for Q3FY2010.
           35) August 28, 2010 by Mike Rudacille - Changed libname in2 for Q4FY2010.
36) December 2, 2010 by Mike Rudacille- Changed libname in2 for Q1FY2011 and
                changed variable names.
           37) February 24, 2011 by Mike Rudacille - Changed libname in2 for Q2FY2011. 38) December 10, 2011 by Mike Rudacille - Changed libname in2 for Q1FY2012.
           39) March 5, 2012 by Amanda Kudis - Changed libname in 2 and include Convert.sas for
O2FY2012.
           40) June 20, 2012 by Amanda Kudis - Updated for Q3FY2012.
           41) August 23, 2012 by Christine Cheu - Updated for Q4FY2012.
           42) December 27,2012 by Aimee Valenzuela - Changed libname in in2 for Q1FY2013
                and changed variable names.
           43) March 23, 2013 by Mike Rudacille - Changed libname in 2 and include Convert.sas for
Q2FY2013.
* NOTES:
* 1) Run this program after BENCHA01.SAS and BENCHA02.SAS.
* 2) This program will generate the input for BENCHA04.SAS.
******************
* Assign data libraries and options
**************************
                                                                             ***/
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
                 "..\..\Q1FY2013\Programs\Benchmark\Data"; /*Use BENCHA02.sas7bdat from
libname in
Q1fy2013*/
libname in2
                "..\&RCTYPE\CAHPS_AdultQ3FY2013\Data";
                "Data";
libname out
LIBNAME LIBRARY "...\..\DATA\AFINAL\FMTLIB";
%let wgt=FWRWT;
OPTIONS MLOGIC MPRINT NOCENTER MERGENOBY=WARN LS=132 PS=79;
%macro comb(f,t,q,l);
proc summary data=&f;
var &t;
where &q~=.;
weight &wgt;
output out=temp mean=&t;
run;
data temp;
set temp;
array old &t;
call symput('z',left(dim(old)));
run;
data temp(drop=_type_ &t);
set temp;
array old &t;
array new var1-var&z;
 do i=1 to &z;
  new(i)=old(i);
  end;
run;
data &q._&l;
merge temp c_&q;
 array coeffs &t;
 array means var1-var&z;
 DO I = 1 TO DIM(COEFFS);
  IF COEFFS(I) = . THEN COEFFS(I) = 0;
IF MEANS(I) = . THEN MEANS(I) = 0;
  ADJUST + ( COEFFS(I) * MEANS(I) );
  END;
```

```
ADJUST = ADJUST + intercept;
&q._&l=adjust;
run;
%mend comb;
%macro adjust(x,y);
proc summary data=setup;
where &x>.;
class product;
output out=count;
data count count2(rename=(_freq_=denom));
set count;
if _type_=0 then output count2;
else output count;
run;
data count(keep=pweight product);
if _n_=1 then set count2;
set count;
pweight=denom/_freq_;
run;
data temp;
merge count setup; by product;
proc summary data=temp;
where &x>.;
weight pweight;
var &y;
output out=temp2 mean=&y;
data temp2;
set temp2;
array old &y;
call symput('z',left(dim(old)));
run;
data temp2(keep=var1-var&z);
set temp2;
array old &y;
array new var1-var&z;
 do i=1 to &z;
  new(i)=old(i);
 end;
run;
data temp;
set temp;
if _n_=1 then set temp2;
array old &y;
array new var1-var&z;
 do i=1 to &z;
 if old(i) = . then
  old(i)=new(i);
  end;
proc reg data=temp outest=c_&x noprint;
model &x=&y;
weight pweight;
output out=r_&x r=r_&x;
run;
proc sort data=r_&x; by product;
PROC DESCRIPT DATA=r_&x DESIGN=STRWR NOPRINT;
WEIGHT pweight;
```

```
SETENV DECWIDTH=4;
NEST product / missunit;
VAR R_&x;
OUTPUT SEMEAN / TABLECELL=DEFAULT
FILENAME=s_&x;
data s_&x(rename=(semean=s_&x));
set s_&x(keep=semean);
%do i=1 %to 8;
 %if &i=8 %then %do;
   data group8;
   set in2.group5 in2.group6 in2.group7;
  %comb(group8,&y,&x,8);
  %end;
  %else %do;
   %comb(in2.group&i,&y,&x,&i);
  %end;
 %end;
%mend adjust;
/* adjust all the variables */
%macro comp(compno,a,b,c,d);
%if &a~= %then %do;
  %let n=r_&a;
  %let m=s_&a;
  %do i=1 %to 8;
   %let p&i=&a._&i;
  %end;
  %let grpnum=1;
  proc sort data=r_&a;
   by mpid;
   run;
 %end;
 %if &b~= %then %do;
  %let n=%str(&n r_&b);
  %let m=%str(&m s_&b);
  %do i=1 %to 8;
  %let p&i=%str(&&p&i &b._&i);
  %end;
  %let grpnum=2;
  proc sort data=r_&b;
   by mpid;
  run;
 %end;
 %if &c~= %then %do;
 proc sort data=r_&c;
  by mpid;
  run;
  %let grpnum=3;
  %let n=%str(&n r_&c);
  %do i=1 %to 8;
  %let p&i=%str(&&p&i &c._&i);
  %let m=%str(&m s_&c); %end;
  %if &d~= %then %do;
  proc sort data=r_&d;
   by mpid;
   run;
   %let grpnum=4;
   %let n=%str(&n r_&d);
    %do i=1 %to 8;
     %let p&i=%str(&&p&i &d._&i);
    %end;
   %let m=%str(&m s_&d);
```

```
data infile;
merge &n;
by mpid;
run;
proc corr outp=outf noprint;
var &n;
weight pweight;
run;
data final;
if _n_=1 then do;
%if &a~= %then %do;
  set s_&a;
  %end;
  %if &b~= %then %do;
  set s_&b;
  %end;
  %if &c~= %then %do;
  set s_&c;
  %if &d~= %then %do;
  set s_&d;
  %end;
end;
set outf;
call symput('s'||compress(_n_),substr(_name_,3));
where _type_='CORR';
run;
data final;
set final;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
  %do i=1 %to &grpnum;
  if _name_="r_&&s&i" then
   sde=sde+r_val(i)*s_&&s&i*s_val(i);
  %end;
end;
run;
data sefin&compno;
set final end=last;
tv+sde;
if last then do;
sde=(tv**.5)/&grpnum;
output;
end;
%do i=1 %to 8;
data temp(keep=&&p&i);
 merge &&p&i;
run;
data output;
set &&p&i;
totadj+adjust;
data output(keep=totadj);
set output end=last;
if last then do;
 totadj=totadj/&grpnum;
 output;
end;
run;
data out&compno._&i;
merge output temp;
run;
```

```
data out.comp&compno._&i;
   merge out&compno._&i
         sefin&compno;
run;
%end;
%mend comp;
/* create composites */
proc sort data=in.bencha02 out=setup;
by product;
run;
data setup;
set setup;
/*if ^(model in (2,4)); */ **AMK 4/06/12 removed; if disp in ('M10','I10') ; ***KRR 04/19/04 Changed _02 to _03;
data setup;
set setup; by product;
mpid=_n_;
if agegroup ne . then do;
age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;
      if agegroup=1 then age1824=1;
else if agegroup=2 then age2534=1;
 else if agegroup=3 then age3544=1;
 else if agegroup=4 then age4554=1;
 else if agegroup=5 then age5564=1;
 else if agegroup=6 then age6574=1;
 end;
if agegroup<6;
run;
%INCLUDE "...\REPORTCARDS\CAHPS_AdultQ3FY2013\CONVERT.SAS";
%CONT2(DSN=SETUP, NUM=4, Y=R13018 R13048 R13027 R13031);
%CONT3(DSN=SETUP, NUM=12, Y=R13007 R13010 R13029 R13033
                            R13021 R13022 R13023 R13024
                            R13041 R13042 R13046 R13047);
/* GETTING NEEDED CARE */
%adjust(R13029,age1824 age2534 age3544 age4554 R13065);
%adjust(R13033,age1824 age2534 age3544 age4554 R13065);
%comp(1,R13029,R13033);
/* GETTING NEEDED CARE QUICKLY */
%adjust(R13007,age1824 age2534 age3544 age4554 R13065);
%adjust(R13010,age1824 age2534 age3544 age4554 R13065);
%comp(2,R13007,R13010);
/* HOW WELL DOCTORS COMMUNICATE */
%adjust(R13021,age1824 age2534 age3544 age4554 R13065);
%adjust(R13022,age1824 age2534 age3544 age4554
%adjust(R13023,age1824 age2534 age3544 age4554 R13065);
%adjust(R13024,age1824 age2534 age3544 age4554 R13065);
%comp(3,R13021,R13022,R13023,R13024);
/* CUSTOMER SERVICE */
%adjust(R13041,age1824 age2534 age3544 age4554 R13065);
%adjust(R13042,age1824 age2534 age3544 age4554 R13065);
%comp(4,R13041,R13042);
/* CLAIMS PROCESSING */
%adjust(R13046,age1824 age2534 age3544 age4554 R13065);
%adjust(R13047,age1824 age2534 age3544 age4554 R13065);
%comp(5,R13046,R13047);
/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(R13018,age1824 age2534 age3544 age4554 R13065);
%comp(6,R13018);
/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(R13048,age1824 age2534 age3544 age4554 R13065);
%comp(7,R13048);
```

```
/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(R13027,age1824 age2534 age3544 age4554 R13065);
%comp(8,R13027);

/* SPECIALTY CARE */
%adjust(R13031,age1824 age2534 age3544 age4554 R13065);
%comp(9,R13031);
```

G.3.D.1 Q3FY2013\PROGRAMS\BENCHMARK\QPREDTEST\SAS2STATA_Grps.sas - Converts the groups datasets from SAS to STATA - Run Ouarterly.

```
*************************
* PROGRAM: SAS2STATA_Grps.SAS
* TASK:
         Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the CAHPS BENCHA02 and GROUP1-8 Files to STATA format
* WRITTEN: 01/11/2008 BY KEITH RATHBUN
         1) BENCHA02.sas7bdat - CAHPS Benchmark Scores Database
           GROUPi.sas7bdat - Group Files created by STEP1.SAS
                      (where i = 1 - 8 = group number)
* OUTPUTS: 1) BENCHA02.dta - CAHPS Benchmark Scores Database - STATA format
           GROUPi.dta - Group Files created by STEP1.SAS - STATA format
                     (where i = 1 - 8 = group number)
* MODIFIED:
* NOTES:
************************
* Assign data libraries and options
************************
%LET OUARTER = O3FY2013;
LIBNAME INBENCH "..\..\..\Q1FY2013\Programs\Benchmark\Data"; /*Use BENCHA02.sas7bdat from
O1fv2013*/
LIBNAME INGROUP "..\..\ReportCards\cahps_adult&QUARTER.\data";
*************************
* Convert CAHPS BENCHA02 to STATA format.
PROC EXPORT
  DATA = INBENCH.BENCHA02
  OUTFILE = "BENCHA02.DTA"
 DBMS = DTA
  REPLACE;
RIIN;
******************
* Convert SAS Group files to STATA format.
%MACRO CONVERT2STATA;
  %DO I = 1 %TO 8;
     PROC EXPORT
       DATA = INGROUP.GROUP&I
       OUTFILE = "GROUP&I..DTA"
       DBMS = DTA
       REPLACE;
     RUN;
  %END;
%MEND CONVERT2STATA;
%CONVERT2STATA;
```

$\textbf{G.3.D.2 Q3FY2013} \\ \textbf{PROGRAMS} \\ \textbf{BENCHMARK} \\ \textbf{QPREDTEST} \\ \textbf{vartest.do-Calculates Predicted Errors-Run Quarterly.} \\$

```
Program: vartest.do
   Author: Eric Schone
   Modified: 1) 11/15/2006 Justin Oh, Added global variable "path"
                for assigning folder directory.
             2) 06/22/2009 Keith Rathbun, Changed fwrwt_v4 back to fwrwt
                and updated path for q3fy2009.
             3) 12/02/2010 Mike Rudacille, updated vars for 2011
             4) 12/10/2011 Mike Rudacille, updated vars for 2012
             5) 12/28/2012 Aimee Valenzuela, updated vars for 2013
  WARNING - MUST EDIT THE GLOBAL PATH FOR EACH REPORTING PERIOD
global path "L:\Q3FY2013\Programs\Benchmark"
program define initial
version 7.0
local i=1
while `i'<9{
gen str8 var=" "
gen se=.
saveold "$path\qpredtest\projerr`i'",replace
local i=`i'+1
end
program define stdlist1
version 7.0
local varlist required existing
parse "`*'"
while "`1'"~=""{
use "$path\qpredtest\bencha02",clear
keep if disp=="M10" | disp=="T10"
gen ageund18=0 if agegroup~=.
gen age1824=0 if agegroup~=.
gen age2534=0 if agegroup~=.
gen age3544=0 if agegroup~=.
gen age4554=0 if agegroup~=.
gen age5564=0 if agegroup~=.
gen age6574=0 if agegroup~=.
replace ageund18 = 1
                          if agegroup==0
replace age1824 = 1 if agegroup==1
replace age2534 = 1 if agegroup==2
replace age4554 = 1 if agegroup==3 replace age4554 = 1 if agegroup==4
replace age5564 = 1 if agegroup==5
replace age6574 = 1 if agegroup==6
keep if agegroup<6
replace `1'=10 if 8<=`1' & `1'<=10
replace `1'=0 if `1'~=. & `1'<8
replace `1'=`1'/10
egen coun=count(`1'), by(product)
gen wt=1/coun
svyset strata product
```

svyset pweight coun

```
egen ct=count(`1'*age1824*r13065), by(product)
keep if ct>1
drop ct
svyreg `1' age1824 age2534 age3544 age4554 age5564 r13065
local i=1
while `i'<9{
use "$path\qpredtest\group`i'",clear
collapse (mean) age1824 age2534 age3544 age4554 age5564 r13065 [aw=fwrwt]
predict se, stdp
keep se
gen str8 var="`1'"
append using "$path\qpredtest\projerr`i'"
saveold "$path\qpredtest\projerr`i'",replace
local i=`i'+1
macro shift
}
end
program define stdlist2
version 7.0
local varlist required existing
parse "`*'"
while "`1'"~=""{
use "$path\qpredtest\bencha02",clear
keep if disp=="M10" | disp=="T10"
 gen ageund18=0 if agegroup~=.
gen age1824=0 if agegroup~=.
gen age2534=0 if agegroup~=.
gen age3544=0 if agegroup~=.
gen age4554=0 if agegroup~=.
gen age5564=0 if agegroup~=.
gen age6574=0 if agegroup~=.
replace ageund18 = 1
                           if agegroup==0
replace age1824 = 1 if agegroup==1 replace age2534 = 1 if agegroup==2
replace age3544 = 1 if agegroup==3
replace age4554 = 1 if agegroup==4
replace age5564 = 1 if agegroup==5 replace age6574 = 1 if agegroup==6
keep if agegroup<6
replace `1'=0 if `1'~=. & `1'<3 replace `1'=1 if `1'>=2
egen coun=count(`1'), by(product)
gen wt=1/coun
svyset strata product
svyset pweight coun
egen ct=count(`1'*age1824*r13065), by(product)
keep if ct>1
drop ct
svyreg `1' age1824 age2534 age3544 age4554 age5564 r13065
local i=1
while `i'<9{
use "$path\qpredtest\group`i'",clear
collapse (mean) age1824 age2534 age3544 age4554 age5564 r13065 [aw=fwrwt]
predict se, stdp
keep se
```

```
gen str8 var="`1'"
append using "$path\qpredtest\projerr`i'"
saveold "$path\qpredtest\projerr`i'",replace
local i=`i'+1
}
macro shift
}
end

set more 1

set mem 100m

log using "$path\qpredtest\varlog",replace
initial

use "$path\qpredtest\bencha02",clear
stdlist1 r13018 r13048 r13027 r13031
use "$path\qpredtest\bencha02",clear
stdlist2 r13029 r13033 r13041 r13042 r13007 r13010 r13021 r13022 r13023 r13024 r13046 r13047
log close
```

G-65

G.3.D.3 Q3FY2013\PROGRAMS\BENCHMARK\QPREDTEST\STATA2SAS_Proj.sas - Converts the Predicted Errors from STATA to SAS - Run Quarterly.

```
*************************
* PROGRAM: STATA2SAS_Proj.SAS
* TASK:
        Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the PROJERR1-8 Files to SAS format
* WRITTEN: 01/11/2008 BY KEITH RATHBUN
* INPUTS: 1) PROJERRi.DTA - PROJERR Files created by VARTEST.DO
                    (where i = 1 - 8 = group number)
* OUTPUTS: 1) PROJERRi.sas7bdat - PROJERR Files created by VARTEST.DO - SAS format
                    (where i = 1 - 8 = group number)
* MODIFIED:
* NOTES:
* Assign data libraries and options
LIBNAME OUT ".";
*************************
* Convert the PROJERR1-8 Files to SAS format
%MACRO CONVERT2SAS;
  %DO I = 1 %TO 8;
    PROC IMPORT
       DATAFILE="projerr&i..dta"
       OUT=OUT.projerr&i
       DBMS=dta
       REPLACE;
     RUN;
  %END;
%MEND CONVERT2SAS;
%CONVERT2SAS;
```

G.3.D.4 Q3FY2013\PROGRAMS\BENCHMARK\QPREDTEST\PREDCOMP.SAS - Compiles Predicted Composite Errors - Run Quarterly.

```
/***********************
/*
  Project: HCSDB Adult Report Cards
/* Program: PREDCOMP.SAS
/* Purpose: Adult Report Card
/* Requires programs STEP1Q and STEP2Q.SAS
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=NO;
libname in ".";
%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,VAR5=,QCOUNT=);
%do i=1 %to 8;
 data temp&i(keep=x se);
      set in.projerr&i end=last;
      variance=se**2;
      %do j=1 %to &qcount;
      if upcase(var)="&&var&j" then t_var+variance;
      %end;
      if last then do;
       se=t_var**.5/&qcount;
       x=&i;
        output;
      end;
 %end;
 data in.comp&compos;
   set temp1 temp2 temp3 temp4 temp5 temp6 temp7 temp8;
%MEND COMPOSIT;
      set the parameters here
* call the macro for each composite;
%COMPOSIT (type=R,compos=1,var1=R13029,var2=R13033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R13007,var2=R13010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R13021,var2=R13022,var3=R13023,var4=R13024,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R13041,var2=R13042,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R13046,var2=R13047,qcount=2);
```

G.3.E Q3FY2013\PROGRAMS\BENCHMARK\BENCHA04.SAS - Convert the Benchmark Scores Database into the WEB layout - Run Quarterly.

```
* PROGRAM: BENCHA04.SAS
* TASK:
             Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the Benchmark Scores Database into the WEB layout
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
* INPUTS:
             1) Benchmark data sets with adjusted scores
                (COMPn_i.sas7bdat where n = composite number and i = group number)
* OUTPUT: 1) BENCHA04.sas7bdat - Combined Benchmark Scores Database in WEB layout
* INCLUDES: 1) LOADCAHO.INC - Format definitions for CAHPS Individual
                and composite data sets
* MODIFIED: 1) Dec 2000 by Keith Rathbun: Updated variable names for
                Q1 2000 Survey. For the quarterly survey group 8 (all benes)
                 is being used as the benchmark for all groups (1-8). Thus,
                 this group is copied and output to each of the other 7 groups.
             2) 01/23/2002 by Mike Scott: Updated variable names to be consistent
                with 2000 survey.
             4) 04/15/2002 by Mike Scott - Updated variable names for
                Q1 2002 Survey.
             5) 03/21/2003 by Mike Scott - Updated for 2003 survey.
             6) 06/26/2003 by Mike Scott - Updated for Q2 2003.
7) 07/03/2003 by Mike Scott - Added TIMEPD variable to be set to the period
                or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
                setting to 'Composite'.
             8) 07/18/2003 by Mike Scott - Added TIMEPD to FREQ. 9) 10/21/2003 by Mike Scott - Updated for Q3 2003.
            10) 03/23/2004 by Mike Scott - Updated for Q1 2004.
            11) 06/15/2004 by Regina Gramss - Updated for Q2 2004.
12) 09/2004 by Regina Gramss - Updated for Q3 2004.
13) 05/2005 by Regina Gramss - Updated for Q1 2005.
            14) 10/2005
                           by Regina Gramss - Updated for Q3 2005.
            15) 03/24/2006 by Keith Rathbun - Updated for Q2 FY 2006.
                Added MACRO loop to process the 8 groups.
            16) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3.
            17) 12/18/2007 by Justin Oh - Updated BENTYPE composite year to 2006 Q4.
            18) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1.
19) 04/05/2007 by Justin Oh - Updated LIBNAME IN2 to be used for purchase RC programs.
            20) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3.
            21) 01/10/2008 by Keith Rathbun - Updated for Q1 FY 2008.
            22) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1.
            23) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2.
            24) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3.
            25) 04/10/2009 by Mike Rudacille - Changed variable names to reflect
                modifications to beneficiary reports necessary for V4
            26) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3.
            27) 12/17/2009 by Emma Ernst - Updated for Q1 2010
            28) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1.
            29) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2.
            30) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3.
            31) 12/02/2010 by Mike Rudacille - Updated for Q1 FY 2011.
32) 02/24/2011 by Mike Rudacille - Updated BENTYPE composite year to 2011 Q1.
            33) 12/10/2011 by Mike Rudacille - Updated for Q1 FY 2012.
            34) 3/5/2012 by Amanda Kudis - Updated for Q2 FY 2012.
35) 6/20/2012 by Amanda Kudis - Updated for Q3 FY 2012.
            36) 8/23/2012 by Christine Cheu- Updated for Q4 FY 2012.
            37) 12/28/2012 by Aimee Valenzuela - Updated for Q1 FY 2013.
            38) 03/23/2013 by Mike Rudacille - Updated for Q2 FY 2013.
* NOTES:
* 1) The following steps need to be run prior to this program:
     - BENCHA01.SAS - Extract Benchmark variables
     - BENCHA02.SAS - Recode Benchmark variables
     - BENCHA03.SAS - Construct Scores and SEMEAN datasets
```

```
* 2) The output file (BENCHA04.SAS7BDAT) will be run through the
   MAKEHTML.SAS program to generate the WEB pages.
*******************
* Assign data libraries and options
LIBNAME IN "DATA";
LIBNAME IN2 "qpredtest";
LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER;
* Load Format definitions for CAHPS Individual and composite data sets.
%INCLUDE "..\LOADWEB\LOADCAHQ.INC";
************************
************************
* Process Macro Input Parameters:
* 1) CNUM = Composite or rating variable number (1-10)
* 2) GNUM = Group number (1-8)
* 3) NVAR = Number of variables in the composite
* 4) VARS = List of individual variables for composite
* 5) SE = List of individual standard error variables
*******************************
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
*******************
* Assign value for BENTYPE composite year
%LET YEAR = "2013 Q2"; * Note that this is based on Calendar Year here;
******************
* Convert benchmark scores datasets into WEB layout.
*************************
%IF &CNUM<6 %THEN %DO;
 DATA INP;
  SET IN2.COMP&CNUM;
   WHERE X=&GNUM;
  DATA INP;
  SET INP IN2.PROJERR&GNUM;
  RENAME SE=SESX;
RUN;
%END;
%ELSE %DO;
  DATA INP;
  SET IN2.PROJERR&GNUM;
  RENAME SE=SESX;
RUN;
%END;
  DATA COMP&CNUM._&Gnum;
    SET INP;
   IF _N_=1 THEN
   SET IN.COMP&CNUM._&GNUM;
    LENGTH MAJGRP $30;
    LENGTH REGION $25;
    LENGTH REGCAT $26;
    LENGTH BENTYPE $50;
    LENGTH BENEFIT $34;
                    ***MJS 07/03/03 Added line;
    LENGTH TIMEPD $35;
```

```
*****************
  * For now, assign SIG = 0
  SIG = 0;
  * Assign major group
  MAJGRP = PUT(&Gnum,MAJGRPF.);
  ********************
  * Assign Region and Regcat
  REGION = "Benchmark";
  REGCAT = "Benchmark";
  *****************
  * Assign benefit and benefit type
  ************************
  IF &CNUM = 1 THEN BENEFIT = "Getting Needed Care";
  ELSE IF &CNUM = 2 THEN BENEFIT = "Getting Care Quickly";
  ELSE IF &CNUM = 3 THEN BENEFIT = "How Well Doctors Communicate";
  ELSE IF &CNUM = 4 THEN BENEFIT = "Customer Service";
  ELSE IF &CNUM = 5 THEN BENEFIT = "Claims Processing";
  ELSE IF &CNUM = 6 THEN BENEFIT = "Health Care";
  ELSE IF &CNUM = 7
                THEN BENEFIT = "Health Plan";
  ELSE IF &CNUM = 8 THEN BENEFIT = "Primary Care Manager";
  ELSE IF &CNUM = 9 THEN BENEFIT = "Specialty Care";
  BENTYPE = "Composite";
                    ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR, $BENTYPF.);
  TIMEPD = PUT(&YEAR,$BENTYPF.); ***MJS 07/03/03 Added;
  IF &CNUM<6 THEN DO;
     IF X=&GNUM THEN DO;
  ********************
  * Assign composite score and SEMEAN
  SCORE = TOTADJ;
      SEMEAN = SORT(SDE**2+SESX**2);
  * Output composite score record for each REGION
     OTTTPTTT;
  END;
  *******************
  * Now, output the individual score records
  *************************
  IF &NVAR GT 1 &CNUM>5 THEN DO;
    ARRAY ITEMS &VARS;
    ARRAY SE
            &SE;
    LENGTH NAME $8;
    DO I = 1 TO DIM(ITEMS); DROP I;
      CALL VNAME(ITEMS(I),NAME);
      NAME = SUBSTR(NAME, 1, 6);
      SCORE = ITEMS(I);
      SEMEAN = SQRT(SE(I)**2+SESX**2);
      IF &NVAR GT 1 THEN
      BENTYPE = PUT(NAME, $BENTYPF.);
      TIMEPD = PUT(&YEAR,$BENTYPF.); ***MJS 07/03/03 Added;
     IF COMPRESS(UPCASE(NAME)) = COMPRESS(UPCASE(VAR)) THEN OUTPUT;
    END;
  END;
KEEP MAJGRP
   REGION
   REGCAT
   BENTYPE
   BENEFIT
         /*MJS 07/03/03 Added*/
   TIMEPD
   SEMEAN
   SCORE
```

```
SIG
 RUN;
%MEND;
*******************
* Process each of the 8 Groups.
************************
************************
%MACRO DOIT;
%DOT = 1 %TO 8;
  ******************
 * COMPOSITE # 1.
 * GETTING NEEDED CARE VARIABLES.
  ************************
 %PROCESS(CNUM=1, GNUM=&I, NVAR=2, VARS=R13029_&I R13033_&I,
     SE=S_R13029 S_R13033);
 *******************
  * COMPOSITE # 2.
  * GETTING CARE QUICKLY VARIABLES.
  ************************
 %PROCESS(CNUM=2, GNUM=&I, NVAR=2, VARS=R13007_&I R13010_&I,
     SE=S_R13007 S_R13010);
 *******************
  * COMPOSITE # 3.
  * HOW WELL DOCTORS COMMUNICATE.
  ************************
 %PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R13021_&I R13022_&I R13023_&I R13024_&I,
     SE=S_R13021 S_R13022 S_R13023 S_R13024);
  * COMPOSITE # 4.
  * CUSTOMER SERVICE.
  ************************
 %PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R13041_&I R13042_&I,
     SE=S_R13041 S_R13042);
 *******************
  * COMPOSITE # 5.
  * CLAIMS PROCESSING
  ***********************
 %PROCESS(CNUM=5, GNUM=&I, NVAR=2, VARS=R13046_&I R13047_&I,
     SE=S_R13046 S_R13047);
 *****************
  * INDIVIDUAL # 1.
 * RATING OF ALL HEALTH CARE: 0 - 10.
  ************************
 %PROCESS(CNUM=6, GNUM=&I, NVAR=1, VARS=R13018_&I, SE=S_R13018);
  * INDIVIDUAL # 2.
  * RATING OF HEALTH PLAN: 0 - 10.
  ************************
  %PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R13048_&I, SE=S_R13048);
 ********************
  * INDIVIDUAL # 3.
  * RATING OF PERSONAL DOCTOR: 0 - 10.
 %PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R13027_&I, SE=S_R13027);
 * INDIVIDUAL # 4.
  * SPECIALTY CARE: 0 - 10.
  ************************
 %PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R13031_&I, SE=S_R13031);
%END;
%MEND DOIT;
```

```
%DOIT;
* STACK up all of the files into one final output dataset.
*************************
DATA OUT.BENCHA04;
   SET COMP1_1 COMP1_2 COMP1_3 COMP1_4 COMP1_5 COMP1_6 COMP1_7 COMP1_8
       COMP2_1 COMP2_2 COMP2_3 COMP2_4 COMP2_5 COMP2_6 COMP2_7 COMP2_8 COMP3_1 COMP3_2 COMP3_3 COMP3_4 COMP3_5 COMP3_6 COMP3_7 COMP3_8
                                                                            COMP2_8
       COMP4_1 COMP4_2 COMP4_3 COMP4_4 COMP4_5 COMP4_6 COMP4_7 COMP4_8
       COMP5_1 COMP5_2 COMP5_3 COMP5_4 COMP5_5 COMP5_6 COMP5_7 COMP5_8 COMP6_1 COMP6_2 COMP6_3 COMP6_4 COMP6_5 COMP6_6 COMP6_7 COMP6_8
       COMP7_1 COMP7_2 COMP7_3 COMP7_4 COMP7_5 COMP7_6 COMP7_7 COMP7_8
       COMP8_1 COMP8_2 COMP8_3 COMP8_4 COMP8_5 COMP8_6 COMP8_7 COMP8_8 COMP9_1 COMP9_2 COMP9_3 COMP9_4 COMP9_5 COMP9_6 COMP9_7 COMP9_8
    IF SCORE = . THEN DELETE;
RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SAS7BDAT - Combined Benchmark Scores Database in WEB layout";
PROC CONTENTS; RUN;
PROC FREQ;
TABLES TIMEPD BENEFIT BENTYPE MAJGRP REGION REGCAT
       REGION*REGCAT
      /MISSING LIST;
```

RUN;

G.4.A Q3FY2013\PROGRAMS\REPORTCARDS\MPR_ADULTQ3FY2013\PRVCOMPQ.SAS - Calculate Preventive Care Composite Scores - Run Quarterly.

```
Project: DoD Reporting and Analysis 6077-410
Program:
           PRVCOMPQ.SAS
Author:
           Chris Rankin
           12/22/2000
Date:
Modified: 4/19/2001 By Keith Rathbun: Restrict population to
           xins_cov in(1,2,3,6). Use POSTSTR instead of
            adi cell.
Modified:
           10/25/01 By Daniele Beahm: Because no poststratification
            was done for q3 2000, changed POSTSTR back to ADJ_CELL
            04/09/02 modified macros the first three macros to create
            temporary datasets (instead of writing permanent datasets)
            07/15/02 By Mike Scott: Changed HCS021 to HCS022 for Q2 2002.
            01/12/03 By Mike Scott: Changed ADJ_CELL to COM_SAMP.
            03/21/03 By Mike Scott: Changed HCS024 to HCS031 for Q2 2002.
            04/01/03 By Mike Scott: Replaced HP_FLU with HP_CHOL. 04/30/03 By Mike Scott: Changed COM_SAMP to ADJ_CELL. Changed
            CMPNUM1 from 4 to 5 and CMPNUM2 from 4 to 3.
            06/13/03 By Eric Schone. Changed composite mean & std err calculations
            to use weights from 2000 input data.
            07/23/03 By Mike Scott: Removed ..\PROGRAMS\ from INCLUDE.
            10/21/03 By Mike Scott: Updated for Q3 2003.
            01/07/04 By Mike Scott: Updated for Q4 2003.
            02/02/04 By Mike Scott: Set PRVVAR6, PRVVAR7, and PRVVAR8 in DATA NORMDATA
            to H04023, H04020, and H04031.
            03/24/04 By Mike Scott: Updated for Q1 2004.
            04/09/04 By Keith Rathbun: Added Service Affiliation variables to
            accomodate the consumer watch.
            06/22/04 By Regina Gramss: Updated for Q2 2004.
            09/2004 By Regina Gramss: Updated for Q3 2004, to use XTNEXREG
                                       vs. XREGION
            01/2005 By Regina Gramss: Updated to create "Last conus_q" for
                    Q4 2004, replace XTNEXREG with XSERVREG
            04/2005 By Regina Gramss: Updated for Q1 2005 (update 2004 field names)
            07/2005 By Regina Gramss: updated for Q2 2005
            10/2005 By Regina Gramss: Updated for Q3 2005
            12/2005 By Regina Gramss: Updated for Q4 2005
            03/24/2006 By Keith Rathbun: Updated for Q2 FY 2006. Changed reference
            to ADJ_CELL in 2006 data to be STRATUM.
            07/2006 By Justin Oh: updated for Q2 FY 2006
            08/22/2006 By Justin Oh
                    Changed XSERVREG for Overseas
                    Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                            IF XINS_COV IN (3)
                                                   THEN GROUP4 = 1
                            Since only XINS_COV IN (1,2,3,6) is kept.
                    Create XOCONUS for 2005 data.
                    Added XREGION in the keep statement for NORMDATA.
            10/04/2006 By Justin Oh Updated %LET INDATA and YRDATA.
            11/15/2006 By Justin Oh Added FIELDAGE in 4 keep statements
            12/22/2006 By Justin Oh Updated %LET INDATA and YRDATA HCS071_1.
            04/05/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS072_1.
            04/05/2007 By Justin Oh Added conditions for RC types
                       ReportCards OR PurchasedReportCards.
            05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
                       both Norm and Quarter datasets.
            05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
                       Groups 1,3, and 4 for new reservists logic.
            07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
                       Groups All, 4, 5, and 6.
            09/04/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS074_1.
            01/10/2008 By Keith Rathbun, Updated %LET INDATA and YRDATA HCS081_1.
                       Also changed H07 variable names to be H08 to match 2008 survey
            04/11/2008 By Justin Oh Updated %LET INDATA and YRDATA HCS082_1.
            06/13/2008 By Keith Rathbun Updated %LET INDATA and YRDATA HCS083_1.
            04/20/2009 By Mike Rudacille Changed RCTYPE and certain variable names for
                       transition to V4 questionnaire.
            06/22/2009 By Keith Rathbun Updated %LET INDATA and YRDATA HCS093_1.
            09/30/2009 By Mike Rudacille Updated %LET INDATA and YRDATA HCS094_1.
            12/17/2009 By Emma Ernst Updated %LET INDATA and YRDATA HCS101_1.
```

```
Also changed H09 variables names to be H10 to match 2010 survey
             03/02/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS102_1.
             03/25/2010 By Mike Rudacille Changed HCS102_1 to HCS102_2.
                       Changed because HCS102_1 no longer contains FIELDAGE.
             06/19/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS103_2.
             08/28/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS104_2.
             12/02/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS111_2.
                       Also changed variable names for 2011 survey.
             02/24/2011 By Mike Rudacille Updated %LET INDATA and YRDATA HCS112_2.
             03/31/2011 By Mike Rudacille Updated benchmarks for HP 2020.
             12/10/2011 By Mike Rudacille Updated %LET INDATA and YRDATA HCS121_2.
                        Also changed variable names for 2012 survey.
             12/21/2011 By Mike Rudacille Updated norm data from 2005 to 2011.
             03/05/2012 By Amanda Kudis Updated %LET INDATA and YRDATA HCS122_2.
             06/20/2012 By Amanda Kudis Updated for Q3FY2012.
             08/23/2012 By Christine Cheu Updated for Q4FY2012.
             11/03/2012 By Mike Rudacille Updated for handling of
                       Joint Service facilities
             12/28/2012 By Aimee Valenzuela Updated for Q1FY2013
             03/23/2013 By Mike Rudacille Updated %LET INDATA and YRDATA HCS132_2.
             05/17/2013 By Mike Rudacille Modified coded to address SUDAAN V11 handling
                        of PROC DESCRIPT without LEVELS. Now invoking PROC DESCRIPT
                        for TABLEVAR=USA (i.e. CONUS cases) similarly to the other cases,
                        except using LEVELS 1.
  Purpose:
             Calculate MPR Preventive Care Composites
             HCSyyq_2.sas7bdat
  Input:
  Output:
             RFINAL.sas7bdat
             CFINAL.sas7bdat
             MFINAL.sas7bdat
             SFINAL.sas7bdat
  Include
   Files:
             LOADCAHPO.INC
   Notes:
             Next program is Loadmprq.sas
             ***CHECK PARAMETER ASSIGNMENTS***
**********************
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 MLOGIC MPRINT
       NOFMTERR COMPRESS=YES;
                                                                      ***/
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
                    "..\..\DATA\AFINAL";
TITRNAME IN
LIBNAME INNORM
                    "..\..\..\2011\DATA";
LIBNAME OUT
                    ".";
LIBNAME LIBRARY
                    "..\..\DATA\AFINAL\FMTLIB";
%LET WGT=FWRWT;
%LET NORMWGT = CFWT;
%LET NORMDAT = HCS11A_2;
%LET DEBUG=Y;
                /** Set to Y for Debug print of datasets **/
%LET INDATA=HCS133_2;
%LET YRDATA=HCS133 2;
/**** The following parameters are used in the Variance ****/
/**** calcuation macro for region and catchment area
**/
                                                **/ /* RSG - 04/2005 changed from 8 to 7
(eliminate cholesterol)*/
                                                     /* MER - 12/21/11 changed from 7 to 6
(eliminate 15 min access var)*/
%LET REGNUM=18; /** number of regions
                                                **/ /* RSG - 01/2005 CHANGED TO FIT THE 16
CATEGORIES OF XSERVREG */
                                                     /* JSO 08/24/2006 (16 TO 15) Changed
Overseas Regions*/
                                                     /* MER 11/03/2012 (15 TO 18) Joint Service
```

```
%LET CATCHNUM=9999; /** number of catchment areas **/
%LET CMPNUM1=4;
                 /** number of variables in first composite **/ /*RSG 04/2005 Changed
CMPNUM1 from 5 to 4*/
%LET CMPNUM2=2; /** number of variables in second composite **/ /*MJS 04/30/03 Changed
CMPNUM2 from 4 to 3*/
                                                                  /*MER 12/27/11 Changed
CMPNUM2 from 3 to 2*/
%LET COMPCNT=2; /** number of composites
                                                            **/
**** set up benchmarks for preventive services ;
**** note -- these are the hp 2000 goals
**** MER 3/31/11 - updated to hp 2020 goals
                   /** HP Goal for prenatal care
%LET GOALVAR1= .78;
                                                         **/
%LET GOALVAR2= .81;
                     /** HP Goal for Mammography
                                                         **/
                    /** HP Goal for Papsmear
                                                         **/
%LET GOALVAR3= .93;
                     /** HP Goal for Blood Pressure check **/
%LET GOALVAR4= .95;
%LET GOALVAR5= .90;
                     /** access goals
                                                         **/ /*04/2005 - RSG: DELETED
CHOLESTEROLE GOAL*/
%LET GOALVAR6= .90;
%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";
/**** note -- output all data to a single dataset for macro */
/**** call
/**** MACROS are no longer called for catchment areas
^{\prime \star} 08/24/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats ^{\star \prime}
LIBNAME LIBRARY '...\...\2011\Data\fmtlib';
DATA NORMDATA(KEEP=XTNEXREG XSERVREG &WGT PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
                 DENV1-DENV&COMPNUM XSERVAFF FIELDAGE);
                 /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
 set INNORM.&NORMDAT(KEEP=MPRID XINS_COV HP_BP HP_MAMOG HP_PAP HP_PRNTL XTNEXREG
                         XENR_PCM XBNFGRP ENBGSMPL &NORMWGT DBENCAT
                         H11010 H11007 H11003 SERVAFF XREGION FIELDAGE XCATCH);
                     /* 08/24/2006 JSO Added XREGION in the keep statement to get XOCONUS */
                     /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
                     /* 05/10/2007 JSO Added H05006, DBENCAT in the keep statement */
                     /* 12/21/2011 MER For switch to 2011 norm data mapped the following vars:
* /
                     /* H05006 -> H11003
                     /* H05007 -> H11004 (subsequently taken out due to not being necessary */
                     /* H05019 -> H11007
                     /* H05022 -> H11010
                     /* H05030 and ADJ_CELL were dropped
*******************
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
/*RSG 02/2005 Added codes to define XTNEXREG & XSERVAFF*/
 IF SERVAFF = 'A' THEN XSERVAFF = 1;
                                           *Army;
 ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;
                                          *Air Force;
 ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;
                                           *Navy;
 ELSE XSERVAFF = 4;
                                           *Other/unknown;
 IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
 IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
 IF XTNEXREG = . THEN DELETE;
 IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
added 10, 11*/
```

```
NXNS_COV = XINS_COV;
                                    /*JSO 04/26/2007 added for reservists logic*/
                                    /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
  IF DBENCAT NOT IN('IGR', 'GRD', 'IDG', 'DGR') AND NXNS_COV = 9 THEN DELETE;
  IF DBENCAT IN('GRD','IGR') AND H11003 = 3 THEN DO;
    NXNS_COV = 3;
    XENR\_PCM = .;
 END:
 PRVVAR1=HP_PRNTL;
                         /** prenatal care **/
                          /** mammography **/
/** papsmear **/
 PRVVAR2=HP_MAMOG;
                         /*^ mammoj _
/** papsmear
 PRVVAR3=HP_PAP;
                          /** blood pressure **/
 PRVVAR4=HP_BP;
 PRVVAR5=H11010;
                          /** access var 1 **/
                          /** access var 2
 PRVVAR6=H11007;
/**** set up numerator and denominator for proportions ****/
 ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
 ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
 ARRAY DENOM(*) DENV1-DENV&COMPNUM;
 DO I = 1 TO &COMPNUM;
    IF I LE &CMPNUM1 THEN DO;
       IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    END;
    ELSE IF I GT &CMPNUM1 THEN DO;
       IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
 END;
 DROP I;
 DENV4=1;
/* 08/22/2006, JSO Create XOCONUS for 2005 data */
           XREGION=13 THEN XOCONUS=1;
   ELSE IF XREGION=14 THEN XOCONUS=2;
   ELSE IF XREGION=15 THEN XOCONUS=3;
/*RSG 02/2005 Added codes to define XSERVREG CACSMPL*/
   IF XTNEXREG = 1 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 1;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
      ELSE XSERVREG = 5;
   END;
   IF XTNEXREG = 2 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 6;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
      ELSE XSERVREG = 10;
   END;
   IF XTNEXREG = 3 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 11;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
      ELSE XSERVREG = 15;
   IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
      IF XOCONUS = 1 THEN XSERVREG = 16;
      ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
      ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
   END;
```

```
RENAME &NORMWGT = &WGT;
run;
/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
DATA &YRDATA(KEEP=BGROUP MHS USA XSERVAFF CACSMPL &WGT TMP_CELL
                 PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
                 DENV1-DENV&COMPNUM XTNEXREG XSERVREG FIELDAGE);
                 /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
 SET IN.&INDATA(KEEP=XINS_COV HP_BP XTNEXREG HP_MAMOG HP_PAP HP_PRNTL /*RSG 04/2005 DELETE
HP_CHOL*/
                     XREGION SERVAFF XENR_PCM XBNFGRP ENBGSMPL &WGT CACSMPL XCATCH
                     STRATUM H13010 H13007 H13004 H13003 D_HEALTH FIELDAGE DBENCAT);
                     /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
                     /* 05/10/2007 JSO Added H07006, DBENCAT in the keep statement */
*************************
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*************************
 IF SERVAFF = 'A' THEN XSERVAFF = 1;
                                           *Army;
 ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; *Air Force;
 ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
 ELSE XSERVAFF = 4;
                                            *Other/unknown;
 IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
 CELLP = 1;
 LENGTH TMP_CELL 8;
 TMP_CELL = STRATUM;
                      /* Make STRATUM a numeric variable */
 IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
 IF XTNEXREG = . THEN DELETE;
 IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
Added 10,11 */
 NXNS_COV = XINS_COV; /*JSO 05/14/2007 added for reservists logic*/
                       /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
 IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
 IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
    NXNS_COV = 3;
    XENR\_PCM = .;
 END;
 PRVVAR1=HP_PRNTL; /** prenatal care **/
PRVVAR2=HP_MAMOG; /** mammography **/
PRVVAR3=HP_PAP; /** papsmear **/
 PRVVAR3=HP_PAP;
                         /** blood pressure **/
 PRVVAR4=HP_BP;
  /*RSG 04/2005 - delete cholesterol, renumber PRVVAR below*/
 PRVVAR5=H13010;
                        /** access var 1 **/
                         /** access var 2 **/
 PRVVAR6=H13007;
/**** set up numerator and denominator for proportions ****/
 ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
 ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
 ARRAY DENOM(*) DENV1-DENV&COMPNUM;
 DO I = 1 TO &COMPNUM;
    IF I LE &CMPNUM1 THEN DO;
       IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    ELSE IF I GT &CMPNUM1 THEN DO;
       IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
```

```
ELSE NUMER(I)=0;
       IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
 END;
 DROP I;
 DENV4=1;
          /* set up dummy for MHS-- include all observations */
 /* 08/22/2006, JSO Create XOCONUS for 2005 data */
        XREGION=13 THEN XOCONUS=1;
 ELSE IF XREGION=14 THEN XOCONUS=2;
 ELSE IF XREGION=15 THEN XOCONUS=3;
 IF XTNEXREG = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 1;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
    ELSE XSERVREG = 5;
 END:
 IF XTNEXREG = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 6;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
    ELSE XSERVREG = 10;
 END;
  IF XTNEXREG = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 11;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
    ELSE XSERVREG = 15;
 END;
 IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
          XOCONUS = 1 THEN XSERVREG = 16;
    ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
    ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
****************
* Assign indicator of CONUS based on XTNEXREG. CONUS stands for
* Contential United States it but includes both Alaska and Hawaii.
* 1/16/09 Changed CONUS to USA.
IF XTNEXREG IN (1,2,3) THEN USA=1;
                                                                /*RSG 01/2005 OVERALL CONUS*/
 ELSE IF XTNEXREG = 4 THEN USA=2;
* Prime enrollees *;
  IF (NXNS_COV IN (1,2,6) AND H13004>=2) THEN DO;
    BGROUP=1;
    OUTPUT;
 END;
* Enrollees with military PCMs *; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    (XENR_PCM IN (1,2,6) AND H13004>=2) THEN DO;
    BGROUP=2;
    OUTPUT;
 END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    (XENR_PCM IN (1,2) AND H13004>=2) THEN DO;
    BGROUP=2;
    OUTPUT;
 END;
* Enrollees with civilian PCMs *; /*JSO 04/05/2007, added conditions for RC type*/
```

```
IF "&RCTYPE" = 'ReportCards' AND
    (XENR_PCM IN (3,7) AND H13004>=2) THEN DO;
    BGROUP=3;
    OUTPUT;
 END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    BGROUP=3;
                                                             /*MER 07/12/11 Added
10*/
    OUTPUT;
 END;
* Nonenrollees *;
 IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
                             /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11 Added 10*/
    OUTPUT;
 END;
              *;
* Active duty
 IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    BGROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
 END;
* Active duty dependents *;
 IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    BGROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
 END;
* Retirees *;
 IF XBNFGRP IN (3,4) THEN DO;
    BGROUP=7;
    OUTPUT;
 END;
* All beneficiaries *;
 BGROUP=8;
 OUTPUT;
RIIN;
DATA HCSDB;
SET &YRDATA;
RUN;
*************
*** a file for each analytical unit
*****************
PROC SORT DATA=HCSDB; BY TMP_CELL;
****************
***** Sudaan macro to calculate standard errors *****
**** there are three output datasets created
***** (XTNEXREG, XSERVREG, MHS, XSERVAFF)
***** Note: 7/10/2000 use CONUS for MHS
                                          ****
                                         ****
***** Note: there are 8 variables and 8 groups
***** Note: 1/16/09 Changed CONUS to USA
%MACRO A_SUDAAN(TABLEVAR);
*** set the number of levels in the proc descript ***;
*** for region or catchment
```

```
%IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
     %LET ENDNUM=4;
     %LET PREF=S;
                         /** dataset prefix for service affiliation data
%END;
 %IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
     %LET ENDNUM=&REGNUM;
                         /** dataset prefix for region data
 %END;
 %ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
    %LET ENDNUM=1;
                         /** dataset prefix for CONUS data **/
    %LET PREF=C;
 %ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
     %LET ENDNUM=5;
                       /** MER 11/03/2012 Change from 4 to 5 for Joint Service **/
     %LET PREF=M;
 %END;
%DO I=1 %TO &GRPNUM;
                      /** 8 groups
     %DO J=1 %TO &COMPNUM; /** 6 variables **/
        DATA INDATA&I.&J(KEEP=&WGT MHS USA XSERVAFF XTNEXREG XSERVREG CACSMPL
                              XSERVAFF NUMV&J DENV&J TMP_CELL);
           WHERE XSERVREG > 0 AND BGROUP=&I AND DENV&J > 0;
           %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
               IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /*MER 11/03/2012 Changed from 4 to 5
for Joint Service */
           %END;
                  %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
                     IF USA NE 1 THEN DELETE;
                  %END;
                  %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
                     IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
         RIIN;
*** Calculate values for regions, catchment areas ****;
         PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
            WEIGHT &WGT;
            SETENV DECWIDTH=4;
            NEST TMP_CELL / MISSUNIT;
            VAR NUMV&J;
            TABLES &TABLEVAR;
            SUBGROUP &TABLEVAR;
            LEVELS & ENDNUM;
            OUTPUT SEMEAN/ TABLECELL=DEFAULT
            FILENAME=&PREF.GRP&I.V&J;
         RUN;
***** first, put all variables into one dataset for each group *****;
         DATA &PREF.GRP&I.V&J;
            SET &PREF.GRP&I.V&J;
            IF SEMEAN NE .;
           MHS=1;
         RIIN;
         %IF &J=1 %THEN %DO;
            DATA &PREF.SEGRP&I;
               SET &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
               GROUP=&I;
               IF SEMEAN NE .;
               RENAME SEMEAN = SERRV&J;
            RUN;
         %END;
         %ELSE %DO;
            DATA &PREF.SEGRP&I;
               MERGE &PREF.SEGRP&I &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
               BY &TABLEVAR;
```

```
GROUP=&I;
             RENAME SEMEAN = SERRV&J;
           RUN;
        %END;
    %END;
***** Put all data into one dataset *****
**** Note: changed output dataset ****
***** to include group
                                  ****;
    %IF &I=1 %THEN %DO;
       DATA &PREF.SERR;
         SET &PREF.SEGRP&I;
         KEEP GROUP &TABLEVAR SERRV1-SERRV&COMPNUM;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.SERR;
         SET &PREF.SERR
         &PREF.SEGRP&I;
       RUN;
    %END;
****** DEBUG PRINT *****;
    %IF &DEBUG=Y %THEN %DO;
       %IF &I=&GRPNUM AND &PREF=R %THEN %DO;
           PROC PRINT DATA=&PREF.SERR;
              VAR &TABLEVAR GROUP SERRV1-SERRV&COMPNUM;
           RUN;
       %END;
    %END;
%END;
%MEND A_SUDAAN;
%A_SUDAAN (USA);
%A_SUDAAN (XSERVAFF);
%A_SUDAAN (XSERVREG);
%A_SUDAAN (XTNEXREG);
***********
*** and create a file for each analytical unit
%MACRO GETCORR(BYVAR);
%IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
PROC SORT DATA=HCSDB; BY &BYVAR;
RUN;
%DO I = 1 %TO &GRPNUM;
   PROC CORR NOPRINT DATA=HCSDB OUTP=&PREF.CORRC&I;
      %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %DO;
        WHERE BGROUP=&I AND 1 <= XSERVAFF <= 5;
                                                /** MER 11/03/2012 Changed 4 to 5 for Joint
Service **/
      %END;
         %IF %UPCASE(&BYVAR)=USA %THEN %DO;
           WHERE BGROUP=&I AND USA = 1;
         %END;
      %ELSE %DO;
        WHERE BGROUP=&I;
      %END;
      BY &BYVAR;
```

```
VAR PRVVAR1-PRVVAR&COMPNUM;
       WITH PRVVAR1-PRVVAR&COMPNUM;
       WEIGHT &WGT;
    RUN;
    DATA &PREF.CORRC&I;
     SET &PREF.CORRC&I;
     WHERE _TYPE_= "CORR";
     GROUP=&I;
     ARRAY OLD PRVVAR1-PRVVAR&COMPNUM;
     ARRAY NEW CORV1-CORV&COMPNUM;
     DO J = 1 TO &COMPNUM;
        NEW(J) = OLD(J);
     END;
     DROP J PRVVAR1-PRVVAR&COMPNUM;
    RUN;
    %IF &I=1 %THEN %DO;
       DATA &PREF.CORRC;
        SET &PREF.CORRC&I;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.CORRC;
        SET &PREF.CORRC
        &PREF.CORRC&I;
       RUN;
    %END;
    %IF &DEBUG=Y %THEN %DO;
        %IF &I=&COMPNUM AND &PREF=R %THEN %DO;
           PROC PRINT DATA=&PREF.CORRC;
             WHERE GROUP=1;
          RUN;
        %END;
    %END;
%END;
*** Flatten dataset(for each region, condense matrix to one row) ***;
%DO K=1 %TO &COMPNUM;
    DATA &PREF.CORR&K;
     SET &PREF.CORRC;
      WHERE _NAME_ = "PRVVAR&K";
     ARRAY CORR (&COMPNUM) CORV1-CORV&COMPNUM;
     ARRAY CORR&K (&COMPNUM) CORV&K.1-CORV&K.&COMPNUM;
     DO L=1 TO &COMPNUM;
        CORR&K(L)=CORR(L);
     END;
     KEEP GROUP &BYVAR CORV&K.1-CORV&K.&COMPNUM;
    RUN;
    %IF &K=1 %THEN %DO;
       DATA &PREF.CORR;
         SET &PREF.CORR&K;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.CORR;
        MERGE &PREF.CORR(IN=IN_1) &PREF.CORR&K(IN=IN_2);
         BY GROUP &BYVAR;
      RUN;
    %END;
    %IF &DEBUG=Y %THEN %DO;
       %IF &PREF=R %THEN %DO;
          PROC PRINT DATA=&PREF.CORR;
             WHERE GROUP=1;
          RUN;
       % END;
     %END;
```

```
%END;
%MEND GETCORR;
%GETCORR(USA);
%GETCORR(XSERVAFF);
%GETCORR(XSERVREG);
%GETCORR(XTNEXREG);
***************
*** Macro to derive composites for each
*** beneficiary group, level
*** output one dataset for each group
%MACRO GETPROP(BYVAR);
%LET START = %EVAL(&CMPNUM1+1);
%IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
PROC MEANS NWAY NOPRINT DATA=HCSDB;
   CLASS BGROUP &BYVAR;
   VAR NUMV1-NUMV&COMPNUM
       DENV1-DENV&COMPNUM;
   WEIGHT &WGT;
   OUTPUT OUT= &PREF.CMPSUM(DROP = _TYPE_)
   SUM = ;
RIIN;
PROC MEANS NWAY NOPRINT DATA=normdata;
  CLASS &BYVAR;
      DENV1-DENV&COMPNUM;
   WEIGHT &wgt.;
   OUTPUT OUT= &PREF.norms(DROP = _TYPE_)
   SUM = nrmv1-nrmv&compnum;
PROC MEANS NWAY NOPRINT DATA=HCSDB;
   CLASS BGROUP &BYVAR;
   VAR DENV1-DENV&COMPNUM;
   OUTPUT OUT=&PREF.DGFR(DROP=_TYPE_ _FREQ_)
   SUM= NOBSV1-NOBSV&COMPNUM;
data &pref.cmpsum;
if _n_=1 then set &pref.norms;
set &pref.cmpsum;
proc sort data=&pref.cmpsum; by bgroup &byvar;
DATA &PREF.CMPSUM;
   MERGE &PREF.CMPSUM(RENAME=(_FREQ_=N_OBS))
        &PREF.DGFR;
   BY BGROUP &BYVAR;
   %IF &PREF=M %THEN %DO; /** added 7/10/2000 **/
      WHERE 1 <= XSERVAFF <= 5; /** MER 11/03/2012 Changed 4 to 5 for Joint Service **/
   %END;
   %ELSE %IF &PREF=C %THEN %DO;
       WHERE USA = 1;
  **** set up group variable **;
   RENAME BGROUP=GROUP;;
  **** set up proportions, and composites **;
  ARRAY PROPORT PROPV1-PROPV&COMPNUM;
  ARRAY NUMER NUMV1-NUMV&COMPNUM;
```

```
ARRAY DENOM DENV1-DENV&COMPNUM;
  array norm nrmv1-nrmv&compnum;
  DO J=1 TO DIM(PROPORT);
     PROPORT(J) = NUMER(J)/DENOM(J);
  END;
  DROP J;
  **** composites **;
** added goalvars to datastep, 5/30/2000
** taken out of temporary array for variance calculations;
** and used, kept as variables
 GOALVAR1=&GOALVAR1;
 GOALVAR2=&GOALVAR2;
 GOALVAR3=&GOALVAR3;
 GOALVAR4=&GOALVAR4;
 GOALVAR5=&GOALVAR5;
 GOALVAR6=&GOALVAR6;
/*RSG 04/2005 - delete goal8 since chol eliminated*/
** the weight for preventive service is defined as the
** proportion of the denominator for that service to the
** composite denominator
** healthy people 2000 goals -- used as benchmarks
 ARRAY
         SVCWGT(&COMPNUM) WGTV1-WGTV&COMPNUM;
         BMARK(&COMPNUM) GOALVAR1-GOALVAR&COMPNUM;
 ARRAY WGTBMARK(&COMPNUM) WTDV1-WTDV&COMPNUM;
 array comp(&compnum) cmpv1-cmpv&compnum;
cpden1=sum(of nrmv1-nrmv&cmpnum1);
cpden2=sum(of nrmv&start-nrmv&compnum);
 DO K = 1 TO &COMPNUM;
     IF K < &START THEN SVCWGT(K) = norm(K)/CPDEN1;</pre>
     ELSE SVCWGT(K) = norm(K)/CPDEN2;
     WGTBMARK(K) = SVCWGT(K)*BMARK(K);
     comp(k)=svcwgt(k)*proport(k);
 END;
 DROP K;
 CPBMK1=SUM(OF WTDV1-WTDV&CMPNUM1);
 CPBMK2=SUM(OF WTDV&START-WTDV&COMPNUM);
 comp1=sum(of cmpv1-cmpv&cmpnum1);
comp2=sum(of cmpv&start-cmpv&compnum);
DROP WGTV1-WGTV&COMPNUM WTDV1-WTDV&COMPNUM
      NUMV1-NUMV&COMPNUM;
RIIN;
%IF &DEBUG=Y AND &PREF=R %THEN %DO;
    PROC PRINT DATA=&PREF.CMPSUM; /* print out final dataset */
    RUN;
                                      /* for region to check
%END;
%MEND GETPROP;
%GETPROP(USA);
%GETPROP(XSERVAFF);
%GETprop(XSERVREG);
%GETPROP(XTNEXREG);
*************
** since MHS benchmarks will be displayed ****
                                                 ****
** set up adjustment factor to apply to
** each analytical unit's composite benchmarks
                                                 ****
****************
*** Macro to merge 3 datasets for each
*** called by analytical unit
*** output final dataset for
                                               *****
```

```
*** XSERVAFF, XSERVREG, XTNEXREG, MHS (USA)
*******************
PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
  VALUE REGIONF
     0 = "USA MHS "
     1 = "NORTH"
     2 = "SOUTH"
     3 = "WEST"
     4 = "OVERSEAS"
%MACRO GETSIG(BYVAR);
%LET START = %EVAL(&CMPNUM1+1);
%LET NEXT = %EVAL(&CMPNUM1+2);
%IF &BYVAR=XSERVREG %THEN %LET PREF=R;
%ELSE %IF &BYVAR=USA %THEN %LET PREF=C;
%ELSE %IF &BYVAR=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF &BYVAR=XTNEXREG %THEN %LET PREF=S;
DATA OUT.&PREF.FINAL(KEEP= MAJGRP REGION REGCAT GOALVAR1-GOALVAR&COMPNUM
               SIGV1-SIGV&COMPNUM SCORV1-SCORV&COMPNUM
               CPSIG1-CPSIG&COMPCNT CP1SE CP2SE
               CSCOR1-CSCOR&COMPCNT CPBMK1-CPBMK&COMPCNT
               SERRV1-SERRV&COMPNUM CP1SE CP2SE
               COMP1 COMP2 PROPV1-PROPV&COMPNUM
               DFSCR1-DFSCR&COMPNUM DF_CP1 DF_CP2
               NOBSV1-NOBSV&COMPNUM CPOBS1-CPOBS&COMPCNT
               DENV1-DENV&COMPNUM CPDEN1-CPDEN&COMPCNT);
   FORMAT MAJGRP $30. REGION $30. REGCAT $30.; /* MER 11/11/12 - Updated REGION/REGCAT for Joint
Service facilities */
       MERGE &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
       &PREF.SERR;
       BY GROUP &BYVAR;
       IF IN_PROP;
%DO Z=1 %TO &COMPCNT;
           CSCOR&Z=COMP&Z.*100;
   %END;
  ** MAJGRP -- text field for group
          GROUP=1 THEN MAJGRP="Prime Enrollees
   ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
   ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
   ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
   ELSE IF GROUP=5 THEN MAJGRP="Active Duty
   ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents
   ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents
   ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries
  **** REGION AND REGCAT SETUP
   %IF &PREF=S %THEN %DO;
       REGCAT=PUT(XTNEXREG,REGIONF.);
       REGION=PUT(XTNEXREG,REGIONF.);
   %END;
    %else %IF &PREF=C %THEN %DO;
      REGION="USA MHS";
       REGCAT="USA MHS";
    %END;
    %ELSE %IF &PREF=R %THEN %DO;
       REGION=PUT(XSERVREG, SERVREGO.);
       REGCAT=PUT(XSERVREG, SERVREGO.);
    %END;
   %ELSE %IF &PREF=M %THEN %DO;
                                                   /** RSG 1/2005 Add codes for service
grouping **/
       REGION=PUT(XSERVAFF, XSERVAFF.);
       REGCAT=PUT(XSERVAFF, XSERVAFF.);
   %END;
   **** setup t statistics, degreees of freedom **;
```

```
TSTAT { & COMPNUM } T_V1-T_V& COMPNUM;
 ARRAY
 ARRAY
           BMARK { & COMPNUM } GOALVAR1-GOALVAR & COMPNUM;
 ARRAY STNDERR { & COMPNUM } SERRV1-SERRV&COMPNUM;
 ARRAY SERRSOR & COMPNUM SESOV1-SESOV& COMPNUM;
 ARRAY
            DEGF{&COMPNUM} DFSCR1-DFSCR&COMPNUM;
 ARRAY
           DENOM{&COMPNUM} DENV1-DENV&COMPNUM;
 ARRAY PROPORT & COMPNUM PROPV1-PROPV&COMPNUM;
         SCORE { & COMPNUM } SCORV1-SCORV& COMPNUM;
 ARRAY
 ARRAY
         PVALUE (&COMPNUM) PVALV1-PVALV&COMPNUM;
 ARRAY
            SIG(&COMPNUM) SIGV1-SIGV&COMPNUM;
            NOBS (&COMPNUM) NOBSV1-NOBSV&COMPNUM;
 ARRAY
 arrav
            norm{&compnum} nrmv1-nrmv&compnum;
** get the item variance, t-statistics, df, p-values **;
** and whether significant
 DO I=1 TO &COMPNUM;
      SERRSQR[I]=STNDERR[I]**2; /* Item variance */
SCORE[I]=PROPORT[I]*100; /* Score (prop. * 100) */
      IF STNDERR{I} > 0 THEN TSTAT{I}=(PROPORT{I}-BMARK{I})/STNDERR{I};
      ELSE TSTAT{I}=.;
      DEGF{I}=NOBS{I}-1;
      PVALUE{I}=(1-PROBT(ABS(TSTAT{I}),DEGF{I}))*2;
      IF PVALUE{I} GE .05 THEN SIG{I}=0;
      ELSE IF PVALUE{I} < .05 THEN DO;</pre>
          IF PROPORT(I) > BMARK(I) THEN SIG(I)=1;
          IF PROPORT{I} < BMARK{I} THEN SIG{I}=-1;</pre>
      END;
 END;
 DROP I;
** multiply each item pair std. errors and correlation coefficients **;
** preventive care composite
ARRAY SEwC1 { & CMPNUM1 } SEwV1-SEwV& CMPNUM1;
 ARRAY SERRC1 { & CMPNUM1 } SERRV1-SERRV& CMPNUM1;
 DO J = 1 TO CMPNUM1;
      ARRAY SMEAN&J{&CMPNUM1} SEMV&J.1-SEMV&J.&CMPNUM1;
      ARRAY CORVAR&J (&CMPNUM1) CORV&J.1-CORV&J.&CMPNUM1;
      DO K=1 TO &CMPNUM1;
          SMEAN&J{K}=SERRV&J*SERRC1{K}*CORVAR&J{K}*norm{K}*nrmV&J;
      SEMV&J.&J=0;
      sewv&j= (nrmV&j**2)*SESQV&j;/** don't count in final standard error calculation **/
 %END;
 DROP K;
 ** multiply each item pair std. errors and correlation coefficients **;
** access to care composite
 ARRAY SERRC2 { & CMPNUM2 } SERRV&START-SERRV&COMPNUM;
 %DO L = &START %TO &COMPNUM;
      ARRAY SMEAN&L{&CMPNUM2} SEMV&L.&START-SEMV&L.&COMPNUM;
      ARRAY CORVAR&L &CMPNUM2 CORV&L.&START-CORV&L.&COMPNUM;
      DO M=1 TO &CMPNUM2;
          SMEAN&L{M}=SERRV&L*SERRC2{M}*CORVAR&L{M};
      SEMV&L.&L=0; /** don't coun't in final standard error calculation **/
 DROP M;
** calculate composite t-statistic, pvalue, and whether significant **;
** for composites
%DO P=1 %TO &COMPCNT;
      %IF &P=1 %THEN %DO;
      ** composite standard error comprised of two parts **;
          CP&P.SE1=SUM(OF SEwV1-SEwV&CMPNUM1);
          CP&P.SE2=SUM(OF SEMV11-SEMV&CMPNUM1.&CMPNUM1.);
          cpobs&p=sum(of nobsv1-nobsv&cmpnum1);
      %END;
      %ELSE %DO;
          CP&P.SE1=SUM(OF SESOV&START-SESOV&COMPNUM);
          CP&P.SE2=SUM(OF SEMV&START.&START.-SEMV&COMPNUM.&COMPNUM.);
          cpobs&p=sum(of nobsv&start-nobsv&compnum);
      %END;
** add the two parts of the composite standard error **;
```

```
** calculate the composite t statistics and p-values **;
  ** determine whether differences are sigificant
        CP&P.SE=SQRT(CP&P.SE2+CP&P.SE1)/CPden&P;
        IF CP&P.SE > 0 THEN CP_T&P.=(COMP&P.-CPBMK&P.)/CP&P.SE;
        ELSE CP_T&P.= .;
       DF_CP&P.=CPOBS&P. - 1;
        CP_P&P.=(1-PROBT(ABS(CP_T&P.),DF_CP&P.))*2;
        IF CP_P&P GE .05 THEN CPSIG&P=0;
        ELSE IF CP_P&P < .05 THEN DO;
           IF COMP&P. > CPBMK&P THEN CPSIG&P= 1;
           ELSE IF COMP&P. < CPBMK&P THEN CPSIG&P=-1;
    %END;
   OUTPUT OUT.&PREF.FINAL;
RUN;
%MEND GETSIG;
%GETSIG(USA);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);
```

G.4.B Q3FY2013\PROGRAMS\REPORTCARDS\MPR_ADULTQ3FY2013\SMOKING_BMI.sas - Calculates Healthy Behavior Composite Scores - Run Quarterly.

```
Project:
              DoD Reporting and Analysis 6077-410
   Program:
              SMOKING_BMI.SAS
              Calculate Smoking Rate and Smoking Cessation
   Purpose:
              for each region-service affiliation and
              conus-service affiliation groups.
   Date:
              1/31/2005
  Author:
             Regina Gramss
  Modified:
             1) 04/2005 By Regina Gramss, Updated for Q1 2005.
              2) 12/2005 By Regina Gramss, Updated for Q4 2005.
              3) 01/2006 By Regina Gramss - Updated for 2005 annual data. Normalize
                 with 2005 data and not 2000. Standardize using age/sex and MPCSMPL
                 (military personnel category). Update smoking cessation
                 calculation with new formula to correspond more to HEDIS.
                 weight (CFWT) and use STRATUM as TMP_CELL.
              4) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
              5) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
              6) 08/24/2006 By Justin Oh, REGNUM changed from 16 to 24.
                 Changed XSERVREG for Overseas
                 Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                        IF XINS_COV IN (3)
                                               THEN GROUP4 = 1
                 Since only XINS_COV IN (1,2,3,6) is kept.
                 Create XOCONUS for 2005 data.
                 Added/Moved LIBRARY Libname to use both Quarter/Annual Formats.
              7) 10/04/2006 By Justin Oh, Updated %LET DSN and CURRENT.
              8) 12/22/2006 By Justin Oh, Updated %LET DSN HCS071_1 and CURRENT October, 2006.
              9) 02/02/2007 By Justin Oh, Added "s" to Healthy Behaviors
             10) 04/05/2007 By Justin Oh, Updated %LET DSN HCS072_1 and CURRENT January, 2007.
            11) 04/05/2007 By Justin Oh, Added conditions for RC types
                            ReportCards OR PurchasedReportCards.
             12) 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
                            both Norm and Quarter datasets.
            13) 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
                            Groups 1,3, and 4 for new reservists logic.
             14) 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
                            Groups All, 4, 5, and 6.
             15) 09/04/2007 By Justin Oh, Updated %LET DSN HCS074_1 and CURRENT July, 2007.
             16) 01/10/2008 By Keith Rathbun, Updated %LET DSN HCS081_1 and CURRENT October,
2007.
                            Also changed H07 variable names to be H08 to match 2008 survey.
             17) 04/11/2008 By Justin Oh, Updated %LET DSN HCS082_1 and CURRENT January, 2008.
             18) 06/13/2008 By Keith Rathbun, Updated %LET DSN HCS083_1 and CURRENT April, 2008.
             19) 03/11/2009 By Keith Rathbun, Updated %LET DSN HCS092_1 and CURRENT January,
2009.
             20) 04/20/2009 By Mike Rudacille, Switched from 2005 to 2007 benchmark data for
transition to
                 V4 questionnaire.
             21) 05/05/2009 By Mike Rudacille, Updated for 2008 benchmark data.
             22) 06/22/2009 By Keith Rathbun, Updated %LET DSN HCS093_1 and CURRENT April, 2009.
                 Changed weight variable from FWRWT_V4 back to FWRWT.
             23) 09/30/2009 By Mike Rudacille, Updated %LET DSN HCS094_1 and CURRENT July, 2009.
             24) 12/17/2009 by Emma Ernst, Updated %LET DSN HCS101_1 and CURRENT October, 2009.
                            Also changed H09 variables names to be H10 to match 2010 survey.
             25) 03/02/2010 By Mike Rudacille, Updated %LET DSN HCS102_1 and CURRENT January,
2010.
             26) 03/25/2010 By Mike Rudacille, Changed HCS102_1 to HCS102_2.
                            Changed because HCS102_1 no longer contains FIELDAGE.
             27) 03/30/2010 By Mike Rudaiclle, Updated for 2009 benchmark data.
             28) 06/19/2010 By Mike Rudacille, Updated %LET DSN HCS103_2 and CURRENT April, 2010.
             29) 08/28/2010 By Mike Rudacille, Updated %LET DSN HCS104_2 and CURRENT July, 2010.
             30) 12/02/2010 By Mike Rudacille, Updated %LET DSN HCS111_2 and CURRENT October,
2010.
                            Also updated Hyy variable names to match 2011 survey.
            31) 02/24/2011 By Mike Rudacille, Updated %LET DSN HCS112_2 and Current January,
2011.
             32) 03/31/2011 By Mike Rudacille, Updated for 2010 benchmarks and to include new
```

```
definition of smoker, HP_SMKH3. Also utilizes HP_CESH3 rather than
*
                            re-creating work already done in convarq.
             33) 12/10/2011 By Mike Rudacille, Updated %LET DSN HCS121_2 and CURRENT October,
2011.
                            Also updated Hyy variable names to match 2012 survey.
             34) 12/21/2011 By Mike Rudacille Updated norm data from 2005 to 2011.
             35) 03/05/2012 By Amanda Kudis, Updated %LET DSN HCS122_2 and CURRENT January, 2012.
             36) 06/20/2012 By Amanda Kudis, Updated for Q3FY2012.
             37) 08/23/2012 By Christine Cheu, Updated for Q4FY2012.
             38) 11/03/2012 By Mike Rudacille Updated for handling of Joint Service facilities
             39) 12/28/2012 By Aimee Valenzuela Updated for Q1FY2013
             40) 03/23/2013 By Mike Rudacille, Updated %LET DSN HCS132_2 and CURRENT January,
2013.
            1) HCS11A_2.sas7bdat - Annual 2011 Survey data
             2) HCS132_2.sas7bdat - Q2 fy 2013 Survey data
3) AC2011DB.sas7bdat - 2011 CAHPS Benchmark Data
   Output: 1) SMOKE.sas7bdat
*************************
OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMTERR;
                                                                         ***/
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
LIBNAME BENCH
                    "..\..\..\2011AdultNCBD";
                   "..\..\Data\afinal";
LIBNAME INDAT
LIBNAME INNORM
                   "..\..\..\2011\Data";
LIBNAME OUT
%LET DSN=HCS133_2;
                                       /*JSO 08/24/2006, Changed Regions, 16 to 15*/ /* MER
%LET DSN_NORM=HCS11A_2;
11/03/12 15 to 18 */
%LET REGNUM = 18;
                                        /*RSG 01/2005 Number of Regions (with serv affiliation)*/
%LET CONNUM = 4;
                                        /*RSG 01/2005 Number of Conus level (with serv
affiliation)*/
%LET SRVNUM = 5;
                                        /*MER 11/03/2012 Number of service affiliations,
including Joint Service */
%LET CURRENT = April, 2013;
%LET WGT = FWRWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999;
                                       /*RSG 02/2005 number of catchment areas **/
DATA BENCHA01;
  SET BENCH.AC2011DB (RENAME=(BIRTHYY=YOB));
   if product in (7,9) then model=4;
  if product=3 then model=2;
                                               /*coded according to AC FORMATS.SAS*/
  if product=1 then model=1;
   if product=4 then model=6;
  if product=8 then model=5;
  if product=2 then model=3;
  product=planid;
/*if ^(model in (2,4)); */ **AMK 5/02/12 removed;
if disp in ('M10','I10') ;
if ac45\_11 in (1,2) & ac46\_11>=1 & ac46\_11<=4; /*02/2006 RSG - REMOVED REQUIREMENT FOR
ADDITIONAL VISIT (ACC22 FIELD)*/
cessbnch=0;
if ac46_11>1 then cessbnch=1;
proc summary nway; class product;
var cessbnch;
output out=tbench mean=;
proc print;
proc summary;
var cessbnch;
output out=tbench mean=;
proc print;
data _null_;
set tbench;
```

```
call symput('CNSLGOAL',cessbnch);
run;
%LET NSMKGOAL = 0.88;
%LET BMIGOAL = 0.69;
%INCLUDE "..\..\LoadWeb\LOADCAHQ.INC";
PROC FORMAT;
VALUE AGEF
LOW - 34 = 1
35 - 49 = 2
50 - 64 = 3
65 - HIGH = 4;
/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY '..\..\..\2011\Data\fmtlib';
DATA NORMDATA (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF
                    SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
                    TOTCON GROUP XSEXA &WGT. age_n MPCSMPL NXNS_COV);
                   /* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INNORM.&DSN_NORM.(DROP=&WGT.); /* 4/4/2006, KRR added drop so CFWT can renamed/used */
LENGTH AGE_N AGE_GRP TMP_CELL 8.;
       XREGION=13 THEN XOCONUS=1; /* 08/24/2006, JSO Create XOCONUS for 2005 data */
IF
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;
TMP_CELL=STRATUM;
AGE_N = FIELDAGE;
AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;
IF SERVAFF = 'A' THEN XSERVAFF = 1;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;
                                           *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;
                                           *Navy;
ELSE XSERVAFF = 4;
                                           *Other/unknown;
IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
  ELSE XSERVREG = 5;
END;
IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 6;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
  ELSE XSERVREG = 10;
END;
IF XTNEXREG = 3 THEN DO;
   IF XSERVAFF = 1 THEN XSERVREG = 11;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
  ELSE XSERVREG = 15;
END;
IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
          XOCONUS = 1 THEN XSERVREG = 16;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
```

```
IF HP_SMKH3 IN (1,2) THEN DO;
   SM_RATE = 0;
   IF HP SMKH3 = 2 THEN SM RATE=1;
   SM_RTDN=1;
/* MER 3/31/11 Start using HP_CESH3 instead of re-creating work already done in convarg */
IF HP_CESH3 IN (1,2) THEN DO;
   SM\_CESS = 0;
   IF HP_CESH3 = 1 THEN SM_CESS=1;
   SM_CSDN=1;
END;
IF xbmicat > 0 THEN DO;
   BMI = 0;
    BMI_DN=1;
   IF xbmicat <=3 THEN BMI=1;</pre>
END;
IF XTNEXREG IN (1,2,3) THEN TOTCON=1;
ELSE IF XTNEXREG = 4 THEN TOTCON=2;
IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */
RENAME &NORMWGT = &WGT;
IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
IF XTNEXREG = .
                  THEN DELETE;
IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
Added 10,11*/
NXNS_COV = XINS_COV;
                                  /*JSO 04/26/2007 added for reservists logic*/
                                  /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H11003 = 3 THEN DO;
  NXNS\_COV = 3;
   XENR\_PCM = .;
END;
* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H11004>=2 THEN DO;
  GROUP=1;
   OUTPUT;
END;
* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM IN (1,2,6) AND H11004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  XENR_PCM IN (1,2) AND H11004>=2 THEN DO;
   GROUP=2;
   OUTPUT;
END;
* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
   XENR_PCM = 3 AND H11004>=2 THEN DO;
   GROUP=3;
   OUTPUT;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
   ((XENR_PCM = 3 AND H11004>=2) OR NXNS_COV IN (3,9,10)) THEN DO; /*JSO 07/30/2007, Added 9*/
   GROUP=3;
                                                                    /*MER 07/12/11, Added 10*/
  OUTPUT;
END;
```

```
* nonenrollees;
IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  GROUP=4;
                                 /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11, Added 10*/
  OUTPUT;
END;
* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
                 /*JSO 07/30/2007, added DBENCAT conditions*/
  GROUP=5;
  OUTPUT;
END;
* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR')THEN DO;
  GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;
* retirees;
IF XBNFGRP IN (3,4) THEN DO;
  GROUP=7;
  OUTPUT;
END;
* all beneficiaries;
GROUP=8;
OUTPUT;
RUN;
^{\prime \star} 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats ^{\star \prime}
LIBNAME LIBRARY '..\..\Data\afinal\fmtlib';
DATA SMOKE (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF TOTCON GROUP
                 SM_RATE SM_CESS SM_RTDN SM_CSDN XSEXA &WGT BMI_DN BMI
                 MPCSMPL NXNS_COV);/* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INDAT.&DSN.;
LENGTH AGE_N AGE_GRP TMP_CELL 8.;
/* MER 4/20/09 - Restrict dataset to just non-zero V4 weights */
IF &WGT <= 0 THEN DELETE;
TMP_CELL=STRATUM;
AGE_N = FIELDAGE;
AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;
IF SERVAFF='A' THEN XSERVAFF=1;
                                             *Armv;
  ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                             *Air Force;
   ELSE IF SERVAFF='N' THEN XSERVAFF=3;
                                              *Navy;
   ELSE XSERVAFF=4;
IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
   ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
  ELSE XSERVREG = 5;
END;
IF XTNEXREG = 2 THEN DO;
   IF XSERVAFF = 1 THEN XSERVREG = 6;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
   ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
   ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
  ELSE XSERVREG = 10;
END;
IF XTNEXREG = 3 THEN DO;
```

```
IF XSERVAFF = 1 THEN XSERVREG = 11;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
   ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
  ELSE XSERVREG = 15;
IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
         XOCONUS = 1 THEN XSERVREG = 16;
   ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
END;
IF XTNEXREG IN (1,2,3) THEN TOTCON=1;
ELSE IF XTNEXREG=4 THEN TOTCON=2;
IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */
IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
IF XTNEXREG = . THEN DELETE;
IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11,
Added 10*/
NXNS COV = XINS COV;
                                  /*JSO 04/26/2007 added for reservists logic*/
                                  /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR\_PCM = .;
END;
IF HP_SMKH3 IN (1,2) THEN DO;
  SM_RATE = 0;
   IF HP_SMKH3 = 2 THEN SM_RATE=1;
  SM_RTDN=1;
END;
/* MER 3/31/11 Start using HP_CESH3 instead of re-creating work already done in convarq */
IF HP_CESH3 IN (1,2) THEN DO;
  SM\_CESS = 0;
  IF HP_CESH3 = 1 THEN SM_CESS=1;
  SM_CSDN=1;
END;
IF xbmicat > 0 THEN DO;
   BMI = 0;
   BMI DN=1;
  IF xbmicat <=3 THEN BMI=1;</pre>
* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H13004>=2 THEN DO;
   GROUP=1;
  OUTPUT;
END;
* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM IN (1,2,6) AND H13004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  XENR\_PCM IN (1,2) AND H13004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;
* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
```

```
XENR\_PCM = 3 AND H13004>=2 THEN DO;
  GROUP=3;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
   ((XENR_PCM = 3 AND H13004>=2) OR NXNS_COV IN (3,9,10)) THEN DO; /*JSO 07/30/2007, Added 9*/
                                                                    /*MER 07/12/11, Added 10*/
  GROTIP=3:
  OUTPUT;
END;
* nonenrollees;
IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
                                 /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11, Added 10*/
  OUTPUT:
END;
* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
  GROUP=5;
                /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END:
* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
  GROUP=6;
                 /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;
* retirees;
IF XBNFGRP IN (3,4) THEN DO;
  GROUP=7;
  OUTPUT;
END;
* all beneficiaries;
GROUP=8;
OUTPUT;
RUN;
PROC SORT DATA=SMOKE;
BY TMP_CELL;
PROC SORT DATA=NORMDATA;
BY TMP_CELL;
RUN;
%MACRO A_SUDAAN(TABLEVAR,SMOKE,SMOKEVAR,DEN);
%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
   %LET ENDNUM=&REGNUM;
       %LET PREF=R;
%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
   %LET ENDNUM=&SRVNUM;
       %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
   %LET ENDNUM=&CONNUM;
       %LET PREF=S;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=TOTCON %THEN %LET PREF=C;
%DO I = 1 %TO 8;
   DATA INDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA MPCSMPL
                          &SMOKEVAR. &DEN. TMP_CELL XTNEXREG);
       SET SMOKE;
   WHERE XSERVREG > 0 AND GROUP=&I. AND &DEN. >= 0;
       %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
          IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /* MER 11/3/12 - Changed 4 to 5 */
       %END;
          %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
```

```
IF TOTCON NE 1 THEN DELETE;
          %END;
          %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
              IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
          %END;
   RUN;
           DATA NORMDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA &SMOKEVAR. &DEN.
                                 TMP_CELL XTNEXREG MPCSMPL);
               SET NORMDATA;
                WHERE XSERVREG > 0 AND GROUP=&I.;
                %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
                    IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /* MER 11/3/12 - Changed 4 to 5
* /
                %END;
               %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
                   IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
            RUN;
               %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
                    PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
                    WEIGHT &WGT;
                    SETENV DECWIDTH=4;
                    NEST TMP_CELL / missunit;
                    VAR &SMOKEVAR;
                    TABLES AGE_GRP*XSEXA*MPCSMPL*&TABLEVAR.;
                    SUBGROUP AGE_GRP XSEXA MPCSMPL &TABLEVAR.;
                    LEVELS 8 2 2 & ENDNUM.;
                    OUTPUT SEMEAN MEAN wsum nsum
                            / TABLECELL=DEFAULT REPLACE
                              FILENAME=&PREF.GRP&I.&SMOKE.;
               %END;
               %ELSE %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
                    PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
                    WEIGHT &WGT;
                    SETENV DECWIDTH=4;
                    NEST TMP_CELL / missunit;
                    VAR &SMOKEVAR;
                    TABLES AGE_GRP*XSEXA*MPCSMPL;
                    SUBGROUP AGE_GRP XSEXA MPCSMPL;
                    LEVELS 3 2 2;
                    OUTPUT SEMEAN MEAN wsum nsum
                            / TABLECELL=DEFAULT REPLACE
                              FILENAME=&PREF.GRP&I.&SMOKE.;
                    RUN;
               %END;
       %IF %UPCASE(&SMOKE) NE CS %THEN %DO;
                  DATA &PREF.SER &I.&SMOKE.;
                  SET &PREF.GRP&I.&SMOKE.;
                  GROUP=&I.;
                  IF SEMEAN NE .;
                  %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
                     KEEP &TABLEVAR. GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
                  %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
                      TOTCON=1;
                      KEEP TOTCON GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
                  %END;
               RUN;
               /* CREATE WEIGHTS FROM 2005 DATA*/
               proc summary data=normdat&i. nway;
                var &WGT;
                where &den>0;
                class age_grp xsexa MPCSMPL;
                output out=norm_&i. sum=normwt;
```

```
by age_grp xsexa mpcsmpl;
       data &pref.ser_&i.&smoke.;
       merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
       by age_grp xsexa mpcsmpl;
       if gin;
       wsum=wsum/normwt;
       nsum=nsum/normwt;
       sesq=normwt*semean**2;
       run;
       proc summary data=&pref.ser_&i.&smoke. nway;
       var mean semean sesq wsum nsum;
       class &tablevar.;
       weight normwt;
       output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)= sumwgt(semean)=;
      data &pref.sert&i.&smoke;
         set &pref.sert&i.&smoke;
         group=&i.;
          semean=sqrt(sesq/semean);
         drop _type_ _freq_;
      run;
      %IF &I. = 1 %THEN %DO;
          DATA &PREF._&SMOKE.;
          SET &PREF.SERT&I.&SMOKE.;
          RUN;
      %END;
      %ELSE %DO;
          DATA &PREF._&SMOKE.;
           SET &PREF._&SMOKE. &PREF.SERT&I.&SMOKE.;
          RUN;
          PROC SORT DATA=&PREF._&SMOKE.;
          BY GROUP;
          RUN;
      %END;
%END;
      %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
           PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
           WEIGHT &WGT;
           SETENV DECWIDTH=4;
           NEST TMP_CELL / missunit;
           VAR &SMOKEVAR;
           TABLES AGE_GRP*XSEXA*&TABLEVAR.;
           SUBGROUP AGE_GRP XSEXA &TABLEVAR.;
           LEVELS 3 2 & ENDNUM.;
           OUTPUT SEMEAN MEAN wsum nsum
                   / TABLECELL=DEFAULT REPLACE
                     FILENAME=&PREF.GRP&I.&SMOKE.;
           RUN;
      %END;
      %ELSE %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
           PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
           WEIGHT &WGT;
           SETENV DECWIDTH=4;
           NEST TMP_CELL / missunit;
           VAR &SMOKEVAR;
           TABLES AGE GRP*XSEXA;
           SUBGROUP AGE_GRP XSEXA;
           LEVELS 3 2 ;
           OUTPUT SEMEAN MEAN wsum nsum
                   / TABLECELL=DEFAULT REPLACE
                     FILENAME=&PREF.GRP&I.&SMOKE.;
           RUN;
```

proc sort data=&pref.ser_&i.&smoke.;

```
%END;
%IF %UPCASE(&SMOKE) = CS %THEN %DO;
          DATA &PREF.SER_&I.&SMOKE.;
          SET &PREF.GRP&I.&SMOKE.;
          GROUP=&I.;
          IF SEMEAN NE .;
          %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
              KEEP &TABLEVAR. GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
          %END;
          %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
              TOTCON=1;
              KEEP TOTCON GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
          %END;
       RUN;
       /* CREATE WEIGHTS FROM 2005 DATA*/
       proc summary data=normdat&i. nway;
        var &WGT;
        where &den>0;
        class age_grp xsexa;
        output out=norm_&i. sum=normwt;
        proc sort data=&pref.ser_&i.&smoke.;
        by age_grp xsexa;
        data &pref.ser_&i.&smoke.;
        merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
        by age_grp xsexa;
        if gin;
        wsum=wsum/normwt;
        nsum=nsum/normwt;
        sesq=normwt*semean**2;
        run;
        proc summary data=&pref.ser_&i.&smoke. nway;
        var mean semean sesq wsum nsum;
        class &tablevar.;
        weight normwt;
        output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)= sumwgt(semean)=;
        run;
       data &pref.sert&i.&smoke;
          set &pref.sert&i.&smoke;
          group=&i.;
           semean=sqrt(sesq/semean);
          drop _type_ _freq_;
       run;
    %IF &I. = 1 %THEN %DO;
    DATA &PREF._CESS;
    SET &PREF.SERT&I.&SMOKE.;
    RUN;
    %END;
    %ELSE %DO;
    DATA &PREF._CESS;
      SET &PREF._CESS &PREF.SERT&I.&SMOKE.;
    PROC SORT DATA=&PREF._CESS;
    BY GROUP;
    RUN;
```

%END;

```
%END;
%END;
%MEND;
%A_SUDAAN(XSERVAFF,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVAFF,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVAFF,BM,BMI,BMI_DN);
%A_SUDAAN(XSERVREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVREG,BM,BMI,BMI_DN);
%A_SUDAAN(XTNEXREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XTNEXREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XTNEXREG,BM,BMI,BMI_DN);
%A_SUDAAN(TOTCON,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(TOTCON,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(TOTCON,BM,BMI,BMI_DN);
%MACRO ADDIT(PREF, TYPE);
DATA &PREF._&TYPE;
SET &PREF._&TYPE;
LENGTH BENEFIT $34. BENTYPE $50.;
BENEFIT="Healthy Behaviors";
   %IF &TYPE=RT %THEN %DO;
       BENTYPE="Non-Smoking Rate";
    %IF &TYPE=CESS %THEN %DO;
       BENTYPE="Counselled To Quit";
    %END;
    %IF &TYPE = BM %THEN %DO;
       BENTYPE = "Percent Not Obese";
    %END;
RUN;
%MEND;
%ADDIT(C,RT);
%ADDIT(C,CESS);
%ADDIT(C,BM);
%ADDIT(M,RT);
%ADDIT(M,CESS);
%ADDIT(M,BM);
%ADDIT(R,RT);
%ADDIT(R,CESS);
%ADDIT(R,BM);
%ADDIT(S,RT);
%ADDIT(S,CESS);
%ADDIT(S,BM);
%MACRO MAKEDATA(PREF, TABLEVAR);
 DATA &PREF._SMOKE;
   SET &PREF._RT
      &PREF._CESS
      &PREF._BM
   LENGTH MAJGRP $30. REGION REGCAT $30.; /* MER 11/11/12 - Updated REGION/REGCAT for Joint
Service facilities */
            GROUP=1 THEN MAJGRP="Prime Enrollees
   ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
    ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
   ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
   ELSE IF GROUP=5 THEN MAJGRP="Active Duty
   ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents
                                                            ";
   ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents
   ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries
       %IF &TABLEVAR = XSERVAFF %THEN %DO;
```

```
IF XSERVAFF = 1 THEN REGION = 'ARMY';
           IF XSERVAFF = 2 THEN REGION = 'AIR FORCE';
           IF XSERVAFF = 3 THEN REGION = 'NAVY';
           IF XSERVAFF = 4 THEN REGION = 'OTHER';
            IF XSERVAFF = 5 THEN REGION = 'JOINT SERVICE'; /* MER 11/3/12 - Added for Joint
Service facilities */
        %END:
       %IF &TABLEVAR = XSERVREG %THEN %DO;
               REGION = PUT(XSERVREG,SERVREGO.); /*JSO 08/24/2006, Create new format for
Overseas*/
       %END;
       %IF &TABLEVAR = XTNEXREG %THEN %DO;
        IF XTNEXREG=1 THEN REGION="NORTH";
           ELSE IF XTNEXREG=2 THEN REGION="SOUTH";
           ELSE IF XTNEXREG=3 THEN REGION="WEST";
           ELSE IF XTNEXREG=4 THEN REGION="OVERSEAS";
        %END;
       %IF &TABLEVAR = TOTCON %THEN %DO;
        REGION = "USA MHS";
        %END;
        REGCAT=REGION;
        DROP GROUP &TABLEVAR;
       IF &TABLEVAR NE 0;
   RUN;
%MEND MAKEDATA;
%MAKEDATA(M,XSERVAFF);
%MAKEDATA(C,TOTCON);
%MAKEDATA(R,XSERVREG);
%MAKEDATA(S,XTNEXREG);
DATA SMOKE;
SET M_SMOKE R_SMOKE S_SMOKE C_SMOKE;
SESQ = SEMEAN**2;
RENAME MEAN=SCORE wsum=n_wgt nsum=n_obs;
RIIN;
/* CALCULATE COMPOSITE SCORE - AVERAGE RATE AND CESSATION*/
PROC SORT DATA=SMOKE;
BY MAJGRP REGION REGCAT;
PROC SUMMARY DATA=SMOKE SUM;
BY MAJGRP REGION REGCAT;
VAR SCORE SESQ N_WGT N_OBS;
OUTPUT SUM= OUT=PRECOMP;
RUN;
DATA COMP(RENAME=(S_MEAN=SCORE S_SE=SEMEAN));
SET PRECOMP;
IF _FREQ_ = 3 THEN DO;
   S_MEAN=SCORE/3;
   S SE=SORT(SESO)/3;
  N_OBS=round(N_OBS/3);
END;
ELSE DO;
   S_MEAN=.;
   S_SE=.;
END;
BENTYPE="Composite";
BENEFIT="Healthy Behaviors";
DROP _TYPE_ _FREQ_ SCORE SESQ;
```

```
RUN;
PROC SORT DATA=SMOKE;
BY MAJGRP BENTYPE;
RUN;
DATA BENCH;
SET SMOKE;
BY MAJGRP BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
  SCORE=&CNSLGOAL;
   SEMEAN=.;
   REGION="Benchmark";
  REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
   SCORE=&NSMKGOAL;
   SEMEAN=.;
  REGION="Benchmark";
  REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
   SCORE=&BMIGOAL;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
   SCORE=(SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   BENTYPE="Composite";
   DROP N_WGT;
   OUTPUT;
END;
RUN;
PROC SORT DATA=SMOKE;
BY REGION BENTYPE;
RUN;
DATA BENCH2;
SET SMOKE;
BY REGION BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Ouit" THEN DO;
   SCORE=&CNSLGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
   SCORE=&NSMKGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT;
   OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
   SCORE=&BMIGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT;
   OUTPUT;
   SCORE=(SUM(&CNSLGOAL, &NSMKGOAL, &BMIGOAL))/3;
   SEMEAN=.;
   MAJGRP="Benchmark";
   BENTYPE="Composite";
```

```
DROP N_WGT N_OBS;
  OUTPUT;
END;
RUN;
DATA SIG1;
SET SMOKE COMP;
IF BENTYPE='Non-Smoking Rate' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&NSMKGOAL)/SEMEAN;
   ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
  IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
     IF SCORE > &NSMKGOAL THEN SIG = 1;
         ELSE IF SCORE < &NSMKGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Counselled To Quit' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-&CNSLGOAL)/SEMEAN;
  ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
   ELSE PVAL=.;
  IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
     IF SCORE > &CNSLGOAL THEN SIG = 1;
         ELSE IF SCORE < &CNSLGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Percent Not Obese' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&BMIGOAL)/SEMEAN;
   ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
     IF SCORE > &BMIGOAL THEN SIG = 1;
         ELSE IF SCORE < &BMIGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Composite' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3))/SEMEAN;
  ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
      IF SCORE > ((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3) THEN SIG = 1;
         ELSE IF SCORE <((SUM(\&NSMKGOAL, \&CNSLGOAL, \&BMIGOAL))/3) THEN SIG = -1;
  END;
END;
DROP TSTAT PVAL;
RUN;
DATA SMOKE_ALL;
SET SIG1 BENCH BENCH2;
TIMEPD="&CURRENT.";
RIIN;
PROC SORT DATA=SMOKE_ALL OUT=OUT.SMOKE;
BY MAJGRP REGION REGCAT BENTYPE;
RUN;
```

G.4.C Q3FY2013\PROGRAMS\REPORTCARDS\MPR_ADULTQ3FY2013\LOADMPRQ.SAS - Convert the MPR Scores Database into the WEB layout - Run Quarterly.

```
Project:
           DoD Reporting and Analysis 6077-410
Program:
           LOADMPRQ.SAS
Purpose:
           Calculate MPR Preventive Care Composites
Date:
           4/07/2000
Author:
           Chris Rankin
Modified: 1) 05-08-2001 By Keith Rathbun, Added SEMEAN to LOADMPRQ.SD2
              to accommodate the Short Reports. Condensed some code.
           2) 07-15-2002 By Mike Scott, Changed PERIOD to = "April, 2001
              to March, 2002".
           3) 03-21-2003 By Mike Scott, Changed PERIOD to = "January, 2001
              to December, 2002".
           4) 04-30-2003 By Mike Scott, Changed CMPNUM1 from 4 to 5, and
              changed the upper limits of both DO loops from 5 to 6 because
              of the addition of Cholesterol Testing.
           5) 06-23-2003 By Mike Scott, Changed setting BENTYPE from &PERIOD
              to Composite. Added TIMEPD variable.
           6) 06-26-2003 By Mike Scott, Updated for Q2 2003.
           7) 10-21-2003 By Mike Scott, Updated for Q3 2003.
           8) 01-07-2004 By Mike Scott, Updated for Q4 2003.
           9) 03-24-2004 By Mike Scott, Updated for Q1 2004.
          10) 06-22-2004 By Regina Gramss, Updated for Q2 2004.
          11) 09/2004
                        By Regina Gramss, Updated for Q3 2004.
          12) 01/2005
                         By Regina Gramss, Replaced XTNEXREG with XSERVREG
              to produce "last conus_q" for Q4 2005
          13) 12/2005 By Regina Gramss, Updated for Q4 2005.
          14) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
              %LET PERIOD = January, 2006 was the only change.
          15) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
          16) 08/24/2006 By Justin Oh, change DO REG = 1 TO 15 from 1 TO 16.
          17) 10/04/2006 By Justin Oh, Updated %LET PERIOD.
          18) 12/20/2006 By Justin Oh, Updated %LET PERIOD October, 2006.
          19) 04/05/2007 By Justin Oh, Updated %LET PERIOD January, 2007.
          20) 06/22/2007 By Keith Rathbun, Updated %LET PERIOD April, 2007.
          21) 09/04/2007 By Justin Oh, Updated %LET PERIOD July, 2007.
          22) 01/10/2008 By Keith Rathbun, Updated %LET PERIOD October, 2007.
          23) 04/11/2008 By Justin Oh, Updated %LET PERIOD January, 2008.
          24) 06/13/2008 By Keith Rathbun, Updated %LET PERIOD April, 2008.
          25) 01/06/2009 By Mike Rudacille, Updated %LET PERIOD October, 2008.
          26) 01/16/2009 By Mike Rudacille, Changed CONUS variable to USA.
          27) 03/11/2009 By Keith Rathbun, Updated %LET PERIOD January, 2009.
          28) 06/22/2009 By Keith Rathbun, Updated %LET PERIOD April, 2009.
          29) 09/30/2009 By Mike Rudacille, Updated %LET PERIOD July, 2009.
          30) 12/17/2009 By Emma Ernst, Updated %LET Period October, 2009.
          31) 03/02/2010 By Mike Rudacille, Updated %LET PERIOD January, 2010.
          32) 06/19/2010 By Mike Rudacille, Updated %LET PERIOD April, 2010.
          33) 08/28/2010 By Mike Rudacille, Updated %LET PERIOD July, 2010.
          34) 12/02/2010 By Mike Rudacille, Updated %LET PERIOD October, 2010.
          35) 02/24/2011 By Mike Rudacille, Updated %LET PERIOD January, 2011. 36) 12/10/2011 By Mike Rudacille, Updated %LET PERIOD October, 2011.
          37) 03/05/2012 By Amanda Kudis, Updated %LET PERIOD January, 2012.
          38) 06/20/2012 By Amanda Kudis, Updated for Q3FY2012.
          39) 08/23/2012 By Christine Cheu, Updated for Q4FY2012.
          40) 11/03/2012 By Mike Rudacille, Updated for handling of
              Joint Service facilities
          41) 12/28/2012 By Aimee Valenzuea, Updated for Q1FY2013
          42) 03/23/2013 By Mike Rudacille, Updated %LET PERIOD January, 2013.
           1) RFINAL.sas7bdat
 Input:
           2) CFINAL.sas7bdat
           3) MFINAL.sas7bdat
           4) SFINAL.sas7bdat
           5) SMOKE.sas7bdat
 Output:
           loadmprg.sas7bdat
 Note:
           ***CHECK COMPNUM AND CMPNUM1 ASSIGNMENTS AND UPPER LIMIT OF DO LOOPS***
```

```
OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;
             ".";
LIBNAME INLIB
              ".";
LIBNAME OUT
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
%LET CMPNUM1=4; /*** number of questions in first composite ***/ /*RSG 04/2005 Changed 5 to 4*/
%LET PERIOD = April, 2013;
%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";
******************
*** Note -- take out access to care questions and composite ***;
*************************
data mfinal(keep=cpbmk1 compress=no);
 set inlib.mfinal(keep=majgrp cpbmk1) INLIB.CFINAL (KEEP=MAJGRP CPBMK1);
 where majgrp="All Beneficiaries"; /*RSG 02/2005 Include CONUS MHS data*/
data mfinal;
 if n =1 then set mfinal;
 set inlib.mfinal(drop=cpbmk1) INLIB.CFINAL(DROP=CPBMK1) ;
proc sort data=mfinal;
                          /*RSG 01/2005 - Added code to select only 1 record per majgrp */
by majgrp;
                           /*using xservreg, there are now 4 conus areas which caused
duplicate benchmark calcs */
data mfinal;
set mfinal;
by majgrp;
if first.majgrp;
****************
***** Benchmarks
***************
DATA BENCHMKS(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SIG);
  FORMAT MAJGRP $30. REGION $30. REGCAT $30. /** RSG 01/2005 Increase region format to
accommodate service affiliation **/
           BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD; /* MER
11/08/12 Increase region/regcat formats */
 SET MFINAL;
 ARRAY BENCHMK{*} GOALVAR1-GOALVAR&CMPNUM1 CPBMK1;
 DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
    SCORE = BENCHMK{I}*100;
    SIG
           = .;
    REGION = "Benchmark";
    REGCAT = "Benchmark";
    BENEFIT = "Preventive Care";
    IF
           I = 1 THEN BENTYPE = "Prenatal Care";
    ELSE IF I = 2 THEN BENTYPE = "Mammography";
    ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
    ELSE IF I = 4 THEN BENTYPE = "Hypertension";
    /*RSG 04/2005 DELETED CHOLESTEROL*/
    ELSE IF I = 5 THEN BENTYPE = "Composite";
                                           ***MJS 06/23/03 Changed &PERIOD to Composite;
    TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
    OUTPUT;
 END;
 DROP I;
RUN;
DATA BENCHMKS;
 SET BENCHMKS;
 OUTPUT;
 IF MAJGRP = "All Beneficiaries" THEN DO;
    DO REG = 1 TO 18; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 15*/ /* MER 11/3/12 15
to 18 */
```

```
MAJGRP = "Benchmark";
          REGION = PUT(REG.SERVREGO.);
          REGCAT = PUT(REG, SERVREGO.);
          OUTPUT;
    END;
    DO SERV = 1 TO 5; DROP SERV; /* MER 11/03/2012 Changed 4 to 5 for Joint Service facilities
* /
        MAJGRP = "Benchmark";
        REGION = PUT(SERV, XSERVAFF.);
        REGCAT = PUT(SERV, XSERVAFF.);
        OUTPUT;
    END;
        MAJGRP = "Benchmark";
        REGION = 'USA MHS';
        REGCAT = 'USA MHS';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'NORTH';
        REGCAT = 'NORTH';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'SOUTH';
        REGCAT = 'SOUTH';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'WEST';
        REGCAT = 'WEST';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'OVERSEAS';
        REGCAT = 'OVERSEAS';
        OUTPUT;
 END;
RIIN;
PROC FREO DATA=BENCHMKS;
  TABLES MAJGRP/MISSING LIST;
*****************
***** Scores **;
*****************
DATA SCORES(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);
   FORMAT MAJGRP $30. REGION $30. REGCAT $30. /** RSG 01/2005 Increase region format to
accommodate service affiliation **/
           BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD; /* MER
11/08/12 Increase region/regcat formats */
 SET INLIB.MFINAL INLIB.CFINAL
     INLIB.RFINAL INLIB.SFINAL;
 ARRAY SEMEANS [*] SERRV1-SERRV&CMPNUM1. CP1SE;
  ARRAY SCORES\{*\} SCORV1-SCORV&CMPNUM1. CSCOR1;
  ARRAY SIGNIF(*) SIGV1-SIGV&CMPNUM1.
                                        CPSIG1;
 ARRAY NOBS {*} NOBSV1-NOBSV&CMPNUM1. CPOBS1;
 ARRAY NWGT (*) DENV1-DENV&CMPNUM1
                                        CPDEN1;
  DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
    SCORE = SCORES{I};
    SEMEAN = SEMEANS{I};
    SIG
            = SIGNIF{I};
    N OBS = NOBS{I};
    N_WGT = NWGT{I};
    BENEFIT = "Preventive Care";
           I = 1 THEN BENTYPE = "Prenatal Care";
    ELSE IF I = 2 THEN BENTYPE = "Mammography";
    ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
    ELSE IF I = 4 THEN BENTYPE = "Hypertension";
    /*RSG 04/2005 DELETED CHOLESTEROL*/
    ELSE IF I = 5 THEN BENTYPE = "Composite"; ***MJS 06/23/03 Changed &PERIOD to Composite;
     TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
```

OUTPUT;

END;

RUN;

DATA LOADMPRQ (KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);

SET BENCHMKS SCORES INLIB.SMOKE;

RUN

PROC SORT DATA=LOADMPRQ OUT=OUT.LOADMPRQ;

BY MAJGRP REGION;

RUN;

G.5.A Q3FY2013\PROGRAMS\LOADWEB\FAKEQ.SAS - Generate the WEB layout/template file - Run Ouarterly.

```
* PROJECT: DOD Quarterly Survey, Consumer Reports (6077-410)
 PROGRAM: FAKEO.SAS
* PURPOSE: Generate Fake Data for Report Cards
 AUTHOR:
           Mark A. Brinkley
 MODIFIED: 1) July 2000 By Eric Schone to utilize CACRPT and CATREP
               include files.
            2) February 2001 By Keith Rathbun - More updates for
               Quarterly report card format. Made FAKE datastep into
               a macro to handle multiple quarters. Added QTR and
               PERIOD parameters.
            3) July 2001 By Mark Brinkley - Updated for
               Quarterly 2 reports
            4) April 2002 By Keith Rathbun - Updated DSN and %LET
               statements for 2002 reports and added TREND records.
               Removed Flu Shot.
            5) July 2002 By Mike Scott - Updated DSN and %LET statements
               for Q2 2002 reports.
            6) March 2003 By Mike Scott - Updated for 2003 survey.
           7) June 2003 By Mike Scott - Added TIMEPD variable to be set to the period
               or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
               setting to 'Composite'. Updated for Q2 2003.
           8) July 2003 BY Mike Scott - Above for K=7 through 10 in loop DO K=0 TO 11.
               Added LOADCAHQ.INC.
           9) October 2003 By Mike Scott - Updated for Q3 2003.
           10) January 2004 By Mike Scott - Updated for Q4 2003.
           11) March 2004 By Mike Scott - Updated for Q1 2004.
           12) June 2004 By Regina Gramss - Updated for Q2 2004.
           13) September 2004 By Regina Gramss - Updated for Q3 2004, to use XTNEXREG vs XREGION
           14) January 2005 By Regina Gramss - Prepare "Last Conus_q" for Q4 2005
               replace XTNEXREG with XSERVREG
           15) April 2005 By Regina Gramss - Update for Q1 2005, delete cholesterol
               bentype and include Healthy Behaviors composite and BMI bentype.
           16) July 2005 By Regina Gramss - Update for Q2 2005.
           17) October 2005 By Regina Gramss - Updated for Q3 2005
           18) December 2005 By Regina Gramss - Updated for Q4 2005
           19) March 2006 By Keith Rathbun - Updated for Q2 FY 2006
           20) July 2006 By Justin Oh - Updated for Q3 FY 2006
           21) 08/22/2006 By Justin Oh - Changed XSERVREG for Overseas
           22) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS063_1 to HCS064_1 for Q4FY2006 reports.
           23) 02/02/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS064_1 to HCS071_1 for Q4FY2006 reports.
           24) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS071_1 to HCS072_1 for Q4FY2006 reports.
           25) 06/22/2007 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS072_1 to HCS073_1 for Q3FY2007 reports.
           26) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data \mbox{HCS073\_1} to \mbox{HCS074\_1} for \mbox{Q4FY2007} reports.
           27) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS074_1 to HCS081_1 for Q1FY2008 reports.
           28) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data \mbox{HCS081\_1} to \mbox{HCS082\_1} for \mbox{Q2FY2008} reports.
           29) 06/13/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS082_1 to HCS083_1 for Q3FY2008 reports.
           30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS083_1 to HCS084_1 for Q4FY2008 reports.
           31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS084_1 to HCS091_1 for Q1FY2009 reports.
           32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA.
           33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS091_1 to HCS092_1 for Q2FY2009 reports.
           34) 04/11/2009 By Mike Rudacille - Updated composite definitions
               to reflect modifications to beneficiary reports necessary for V4
           35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS092_1 to HCS093_1 for Q3FY2009 reports.
           36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
```

Changed input data HCS093_1 to HCS094_1 for Q4FY2009 reports.

```
37) 12/17/2009 By Emma Ernst - Changed %LET PERIOD1- Period4
               Changed input data to HCS10_1 for Q1FY2010
          38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS101_1 to HCS102_1 for Q2FY2010 reports.
          39) 03/30/2010 By Mike Rudacille - Changed input data from
              HCS102_1 to HCS102_2 (FIELDAGE no longer included in HCSyyq_1).
          40) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS102_2 to HCS103_2 for Q3FY2010 reports.
          41) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS103_2 to HCS104_2 for Q4FY2010 reports.
          42) 12/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data \mbox{HCS104\_2} to \mbox{HCS111\_2} for \mbox{Q1FY2011} reports.
          43) 02/24/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data \mbox{HCS111}_{2} to \mbox{HCS112}_{2} for \mbox{Q2FY2011} reports.
          44) 12/10/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCD114_2 to HCS121_2 for Q1FY2012 reports.
          45) 03/05/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS121_2 to HCS122_2 for Q2FY2012 reports.
          46) 06/20/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS122_2 to HCS123_2 for Q3FY2012 reports.
          47) 08/23/2012 By Christine Cheu - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS123_2 to HCS124_2 for Q4FY2012 reports.
          48) 11/03/2012 By Mike Rudacille - Updated for handling of
              Joint Service facilities
          49) 12/28/2012 By Aimee Valenzuela - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS124_2 to HCS131_2 for Q1FY2013 reports
          50) 03/23/2013 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS131_2 to HCS132_2 for Q2FY2013 reports
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
              and composite data sets
%LET NUMQTR = 5;
                ***MJS 06/18/03 Changed 4 to 5;
%LET PERIOD1 = July, 2012;
%LET PERIOD2 = October, 2012;
%LET PERIOD3 = January, 2013;
%LET PERIOD4 = April, 2013;
%LET PERIOD5 = Trend; ***MJS 06/18/03 Added line;
%INCLUDE "LOADCAHQ.INC"; ***MJS 07/07/03 Added;
LIBNAME OUT
                "..\..\Data\AFinal";
TITRNAME IN
LIBNAME LIBRARY "..\..\Data\AFinal\fmtlib";
OPTIONS COMPRESS=YES NOFMTERR;
*******************
* CREATE TEMPORARY DATASET FOR RECODING CACSMPL TO BE COLLAPSED FOR
* REPORT CARD PURPOSES
* FOR QUARTERLY REPORTS CATCHMENT LEVEL REPORTING IS NOT DONE
* AND THEREFORE THE VALUE OF CELLP IS SET TO 1
* FOR ANNUAL REPORTING PURPOSES
* CELLP WILL NEED TO BE ASSIGNED TO GEOCELL (KEEP GEOCELL ON INPUT)
DATA TEMP;
 SET IN.HCS133 2;
   * CODE FOR XSERVREG FROM XTNEXREG
   ****************************
   IF SERVAFF='A' THEN XSERVAFF=1;
                                              *Army;
      ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                              *Air Force;
      ELSE IF SERVAFF='N' THEN XSERVAFF=3;
      ELSE XSERVAFF=4;
   IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
   IF XTNEXREG = 1 THEN DO;
```

```
IF XSERVAFF = 1 THEN XSERVREG = 1;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
       ELSE XSERVREG = 5;
    IF XTNEXREG = 2 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 6;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
       ELSE XSERVREG = 10;
    END;
    IF XTNEXREG = 3 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 11;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
       ELSE XSERVREG = 15;
    END;
    IF XTNEXREG = . THEN DELETE;
RUN;
proc freq;
table xservreg*cacsmpl/ noprint out=temp;
run;
data temp2;
length cafmt $30;
set temp end=last;
by xservreg;
 caf=0;
where cacsmpl ne 9999;
  if first.xservreg then do; /* took out condition for xregion= 8 since useing xservreg now */
   cafmt=put(xservreg,servregf.);
  end;
  cafmt=put(cacsmpl,catrep.);
  caf=1;
  if count>60 & cafmt ne 'INV' then output;
  if last then do;
   xservreg=0;
    caf=0;
   cafmt='Benchmark';
   output;
          /** RSG 01/2005 Add in codes for service affiliation categories **/
   caf=1;
   xservreg=16;
   cafmt='Overseas Europe';
   output;
  xservreg=17;
  cafmt='Overseas Pacific';
  output;
  xservreg=18;
   cafmt='Overseas Latin America';
   out.put.;
xservreg=19;
  cafmt = 'ARMY';
       output;
       xservreg=20;
       cafmt = 'AIR FORCE';
       output;
       xservreg=21;
       cafmt = 'NAVY';
       output;
```

```
xservreg=22;
       cafmt = 'OTHER';
        output;
       xservreg=23;
        cafmt = 'JOINT SERVICE';
       output;
       xservreg=24;
       cafmt = 'NORTH';
       output;
       xservreg=25;
       cafmt = 'SOUTH';
       output;
       xservreg=26;
       cafmt = 'WEST';
       output;
       xservreg=27;
       cafmt = 'OVERSEAS';
       output;
       xservreg=28;
       cafmt = 'USA MHS';
       output;
       xservreg=29;
       cafmt = 'Europe Army';
       output;
       xservreg=30;
       cafmt = 'Europe Air Force';
       output;
       xservreg=31;
       cafmt = 'Europe Navy';
       output;
       xservreg=32;
       cafmt = 'Europe Other';
       output;
       xservreg=33;
        cafmt = 'Europe Joint Service';
       output;
       xservreg=34;
       cafmt = 'Pacific Army';
       output;
       xservreg=35;
       cafmt = 'Pacific Air Force';
       output;
       xservreg=36;
       cafmt = 'Pacific Navy';
       output;
       xservreg=37;
       cafmt = 'Pacific Other';
       output;
       xservreg=38;
       cafmt = 'Pacific Joint Service';
       output;
       xservreg=39;
       cafmt = 'Latin America Army';
       output;
       xservreg=40;
       cafmt = 'Latin America Air Force';
       output;
       xservreg=41;
       cafmt = 'Latin America Navy';
       output;
       xservreg=42;
       cafmt = 'Latin America Other';
       output;
       xservreg=43;
        cafmt = 'Latin America Joint Service';
        output;
  end;
/*RSG~04/2005 order region groups the way it should appear in reports*/
data temp3 (rename=(temp_r=xservreg));
   set temp2;
      xservreg=0 then temp_r=1;
```

```
else if xservreg=28 then temp_r=2;
else if xservreg=19 then temp_r=3;
else if xservreg=21 then temp_r=4;
else if xservreg=20 then temp_r=5;
else if xservreg=22 then temp_r=6;
else if xservreg=23 then temp_r=7;
else if xservreg=24 then temp_r=8;
else if xservreg=1 then temp_r=9;
else if xservreg=3 then temp_r=10;
else if xservreg=2 then temp_r=11;
else if xservreg=4 then temp_r=12;
else if xservreg=5 then temp_r=13;
else if xservreg=25 then temp_r=14;
else if xservreg=6 then temp_r=15;
else if xservreg=8 then temp_r=16;
else if xservreg=7 then temp_r=17;
else if xservreg=9 then temp_r=18;
else if xservreg=10 then temp_r=19;
else if xservreg=26 then temp_r=20;
else if xservreg=11 then temp_r=21;
else if xservreg=13 then temp_r=22;
else if xservreg=12 then temp_r=23;
else if xservreg=14 then temp_r=24;
else if xservreg=15 then temp_r=25;
else if xservreg=27 then temp_r=26;
else if xservreg=16 then temp_r=27;
else if xservreg=17 then temp_r=28;
else if xservreg=18 then temp_r=29;
else if xservreg=29 then temp_r=30;
else if xservreg=31 then temp_r=31;
else if xservreg=30 then temp_r=32;
else if xservreg=32 then temp_r=33;
else if xservreg=33 then temp_r=34;
else if xservreg=34 then temp_r=35;
else if xservreg=36 then temp_r=36;
else if xservreg=35 then temp_r=37;
else if xservreg=37 then temp_r=38;
else if xservreg=38 then temp_r=39;
else if xservreg=39 then temp_r=40;
else if xservreg=41 then temp_r=41;
else if xservreg=40 then temp_r=42;
else if xservreg=42 then temp_r=43;
else if xservreg=43 then temp_r=44;
drop xservreq;
run;
proc sort;
by xservreg caf cafmt;
run;
data temp4;
set temp3 end=last;
start=_n_;
label=cafmt;
type='N';
fmtname='ROWMAT';
if last then call symput('x',_n_);
run;
proc format cntlin=temp4;
proc print data=temp4;
run;
%MACRO FAKE;
DATA FAKE;
 KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K; ***MJS 06/18/03 Added TIMEPD;
 LENGTH MAJGRP $ 30
         REGION $ 30
                         /*RSG 01/2005 lengthen format to fit service affiliation*/
```

```
REGCAT $ 30
                      /*MER 11/08/2012 length format for region/regcat for Joint Service
facilities */
         BENTYPE $ 50
         TIMEPD $ 35; ***MJS 06/18/03 Added TIMEPD;
 DO I=1 TO 8;
                           ** 8 Major groups **;
    MAJGRP=PUT(I,MAJOR.);
                          ** Region/catchment **;
    DO J=1 TO \&x;
    REGCAT=PUT(J,ROWMAT.);
     RETAIN REGION;
     **RSG 01/2005 Change code to fit XSERVREG values**;
     IF SUBSTR(REGCAT,1,8) IN ('Benchmar','Overseas','OVERSEAS') OR
     SUBSTR(REGCAT,1,5) IN ('Pacif','Europ','Latin','North','South','West
','NORTH','SOUTH','WEST') OR
           REGCAT IN ('ARMY', 'AIR FORCE', 'NAVY', 'OTHER', 'JOINT SERVICE', 'USA MHS') THEN
REGION=REGCAT;
                         ** 11 Benefits **; /*** 04-11-09 MER ***/
       DO K=1 TO 11;
          BENEFIT=PUT(K,BEN.);
          IF K=1 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
              DO L=1 TO 3;
                  BENTYPE=PUT(L,GETNCARE.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
          ELSE IF K=2 THEN DO;
              DO L=1 TO 3;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                  BENTYPE=PUT(L,GETCAREQ.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
          ELSE IF K=3 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
              DO L=1 TO 5;
                  BENTYPE=PUT(L, HOWWELL.); ***that replaced BENTYPE hard assignment;
                  %DO 0 = 1 %TO &NUMOTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
          ELSE IF K=4 THEN DO;
              DO L=1 TO 3;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                  BENTYPE=PUT(L,CUSTSERV.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END:
          ELSE IF K=5 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
              DO L=1 TO 3;
                  BENTYPE=PUT(L,CLMSPROC.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
```

```
ELSE IF K=6 THEN DO;
             DOO O = 1 TO WILMOTR;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                           ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         END;
         ELSE IF K=7 THEN DO;
             %DO Q = 1 %TO &NUMQTR;
                 BENTYPE = "Composite";
                                          ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         END;
         ELSE IF K=8 THEN DO;
              %DO O = 1 %TO &NUMOTR;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
          END;
         ELSE IF K=9 THEN DO;
             %DO Q = 1 %TO &NUMQTR;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         END;
         ELSE IF K=10 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
             DO L=1 TO 5;
                 BENTYPE=PUT(L,PREVCARE.); ***that replaced BENTYPE hard assignment;
                 %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END;
         END;
         ELSE IF K=11 THEN DO;
                                        ***RSG 02/2005 Added for smoking scores.;
             DO M=1 TO 4;
                 BENTYPE=PUT(M,SMOKEF.);
                  DO Q = 1 TO ENUMQTR;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT;
                 %END;
             END;
         END;
       END;
    END;
 END;
RUN;
%MEND FAKE;
%FAKE;
/*** 12-13 MAB ***/
/*** Since quarterly files won't have catchment level data then delete ***/
DATA FAKE;
 SET FAKE;
 IF REGION=REGCAT;
RIIN;
/*** 12-13 MAB ***/
/*** Need to create single benchmarks for ALL major groups ***/
DATA EXTRA;
 SET FAKE;
 IF MAJGRP="Prime Enrollees" AND REGION=REGCAT AND REGION^="Benchmark";
 MAJGRP="Benchmark";
/*** Combine extra data with fake ***/
DATA FAKE;
```

```
SET EXTRA FAKE;
RUN;

/*** Need to clean up data ***/
DATA OUT.FAKEQ;
SET FAKE;

/*** Need to set oddball records to missing ***/
IF REGION="Benchmark" THEN SIG=.;
if region=''|compress(regcat)='.' then delete;

/*** Don't populate catchment areas for 4 major groups ***/
*IF I IN(3,4,6,7) AND REGION^=REGCAT THEN DELETE; /*** 12-13 MAB ***/

DROP I K;

RUN;

PROC FREQ;
TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG; ***MJS 07/21/03 Added TIMEPD;
RUN;

ENDSAS;
```

G-113

G.5.B Q3FY2013\PROGRAMS\LOADWEB\MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases into the WEB layout - Run Quarterly.

```
* PROGRAM: MERGFINQ.SAS
* TASK:
            Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
 PURPOSE:
            Merge the final CAHPS and MPR Scores Databases
            into the WEB layout preserving the order of the FAKEQ.SD2.
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from MERGFINL.SAS.
* INPUTS:
            1) MPR and CAHPS Individual and Composite data sets with adjusted
               scores, and benchmark data for quarterly DoD HCS.
                - LOADMPRQ.sas7bdat - MPR Scores Database
                - LOADCAHQ.sas7bdat - CAHPS Scores Database
                - BENCHA04.sas7bdat - CAHPS Benchmark Database
                - FAKEQ.sas7bdat
                                     - WEB Layout in Column order
 OUTPUT:
            1) MERGFINQ.sas7bdat - Combined Scores Database in WEB layout
 INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
                and composite data sets
* MODIFIED: 1) 07/15/2002 by Mike Scott: Updated libnames for Q2 2002.
            2) 03/21/2003 by Mike Scott: Updated for 2003 survey.
            3) 07/09/2003 by Mike Scott: Updated for Q2 2003. Added TIMEPD to KEYs.
            4) 07/23/2003 by Mike Scott: Added TIMEPD to FREQs and PRINT.
            5) 10/21/2003 by Mike Scott: Updated for Q3 2003.
            6) 01/07/2004 by Mike Scott: Updated for Q4 2003.
            7) 03/24/2004 by Mike Scott: Updated for Q1 2004.
            8) 06/22/2004 by Regina Gramss: Updated for Q2 2004.
            9) 09/2004
                         by Regina Gramss: Updated for Q3 2004, Use XTNEXREG vs XREGION
           10) 01/2005
                           by Regina Gramss: Changed XTNEXREG to XSERVREG to compile
                "Last conus_q" for Q4 2005
           11) 04/2005
                          by Regina Gramss: Updated for Q1 2005
           12) 07/2005
                           by Regina Gramss: updated for Q2 2005
                         by Regina Gramss: Updated for Q3 2005
           13) 10/2005
                         by Regina Gramss: Updated for Q4 2005
           14) 12/2005
           15) 07/2006
                           by Justin Oh: Updated for Q3 FY 2006
           16) 08/22/2006 by Justin Oh: Change DO REG = 1 TO 15 from 1 TO 16
           17) 10/03/2006 by Justin Oh - Changed libname in2 and in3 for Q4FY2006.
           18) 12/20/2006 by Justin Oh - Changed libname in2 and in3 for Q1FY2007.
           19) 04/05/2007 by Justin Oh - Changed libname in 2 and in 3 for Q2FY2007. 20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
               ReportCards OR PurchasedReportCards.
           21) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
               Benchmark OR PurchasedBenchmark.
           22) 09/05/2007 by Justin Oh - Changed libname in 2 and in 3 for Q4FY2007.
           23) 01/10/2008 by Keith Rathbun - Changed libname in2 and in3 for Q1FY2008.
           24) 04/11/2008 by Justin Oh - Changed libname in 2 and in 3 for Q2FY2008.
           25) 06/13/2008 by Keith Rathbun - Changed libname in 2 and in 3 for O3FY2008.
           26) 10/02/2008 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2008.
           27) 01/06/2009 by Mike Rudacille - Changed libname in 2 and in 3 for Q1FY2009. 28) 01/16/2009 by Mike Rudacille - Changed CONUS to USA.
           29) 03/11/2009 by Keith Rathbun - Changed libname in2 and in3 for Q2FY2009.
           30) 06/23/2009 by Keith Rathbun - Changed libname in2 and in3 for Q3FY2009.
           31) 09/30/2009 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2009.
           32) 12/17/2009 by Emma Ernst- Changed libname in 2 and in 3 for Q1FY2010.
           33) 03/02/2010 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2010.
           34) 06/19/2010 by Mike Rudacille - Changed libname in2 and in3 for Q3FY2010.
35) 08/28/2010 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2010.
           36) 12/02/2010 by Mike Rudacille - Changed libname in 2 and in 3 for Q1FY2011.
           37) 02/24/2011 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2011.
           38) 12/10/2011 by Mike Rudacille - Changed libname in2 and in3 for Q1FY2012.
           39) 03/05/2012 by Amanda Kudis - Changed libname in2 and in3 for Q2FY2012.
           40) 06/20/2012 by Amanda Kudis - Changed libname in 2and in 3 for Q3FY2012.
           41) 08/23/2012 by Christine Cheu - Changed libname in2 and in3 for Q4FY2012.
42) 11/03/2012 by Mike Rudacille - Updated for handling of
               Joint Service facilities
           43) 12/28/2012 by Aimee Valenzuela - Changed libname in2 and in3 for Q1FY2013.
           44) 03/23/2013 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2013.
```

```
* NOTES:
* 1) The following steps need to be run prior to this program:
  - STEP1Q.SAS - Recode questions and generate CAHPS group files
- STEP2Q.SAS - Calculate CAHPS individual adjusted scores for groups 1-7
  - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
- PRVCOMPQ.SAS - Calculate MPR individual and composite scores
  - BENCHA01-04.SAS - Convert Benchmark Scores into WEB layout
  - LOADCAHQ.SAS - Convert Quarterly CAHPS Scores Database into WEB layout - LOADMPRQ.SAS - Convert Quarterly MPR Scores Database into WEB layout
 - LOADMPRO.SAS
* 2) The output file (MERGFINQ.SD2) will be run through the
    MAKEHTMQ.SAS program to generate the WEB pages.
*******************
* Assign data libraries and options
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
/*** SELECT PROGRAM - Benchmark OR PurchasedBenchmark
%LET BCHTYPE = Benchmark;
LIBNAME IN1 ".";
LIBNAME IN2 "CAHPS ADULTO3FY2013\Data";
LIBNAME IN3 "..\&RCTYPE\MPR_AdultQ3FY2013";
LIBNAME IN4 "..\&BCHTYPE\Data";
LIBNAME OUT ".";
LIBNAME LIBRARY
               "..\..\DATA\AFINAL\FMTLIB";
OPTIONS PS=79 LS=232 COMPRESS=YES NOCENTER; ***MJS 07/23/03 Changed LS from 132;
%INCLUDE "LOADCAHQ.INC";
******************
* Construct ORDERing variable from WEB layout
*******************************
DATA ORDER;
  SET IN1.FAKEO;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) | | UPCASE(TRIM(BENTYPE)) | |
       KEEP KEY ORDER;
RUN;
PROC SORT DATA=ORDER; BY KEY; RUN;
*******************
* Merge the Scores Databases
*************************
DATA MERGFINO;
  SET IN2.LOADCAHQ(IN=INCAHPQ)
     IN3.LOADMPRO(IN=INMPRO)
      IN4.BENCHA04(IN=INBENQ );
  SVCAHPQ = INCAHPQ;
  SVMPRQ = INMPRQ;
  SVBENQ = INBENQ;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) | | UPCASE(TRIM(BENTYPE)) | |
        UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ****MJS 07/09/03 Added TIMEPD;
  KEYLEN=LENGTH(KEY);
  KEYTEST=LENGTH(BENEFIT)+LENGTH(BENTYPE)+LENGTH(MAJGRP)+LENGTH(REGION)+LENGTH(TIMEPD);
  OUTPUT;
  IF INBENO THEN DO;
     IF MAJGRP = "All Beneficiaries" THEN DO;
       DO REG = 1 TO 30; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 24*/ /*MER
11/03/12 24 to 30*/
             MAJGRP = "Benchmark";
```

```
REGION = PUT(REG,SERVREGF.);
                REGCAT = PUT(REG, SERVREGF.);
                KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) |
                                              | UPCASE(TRIM(REGCAT)) |
                      UPCASE(TRIM(MAJGRP))
                                                                           ***MJS 07/09/03 Added
                      UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
TIMEPD;
                OUTPUT;
         END;
         DO SERV = 1 TO 5; DROP SERV; /*RSG 02/2005 Add in serv affiliation*/ /*MER 11/03/12 4
to 5*/
                MAJGRP = "Benchmark";
                REGION = PUT(SERV, XSERVAFF.);
                REGCAT = PUT(SERV, XSERVAFF.);
                KEY = UPCASE(TRIM(BENEFIT)) | | UPCASE(TRIM(BENTYPE)) | |
                      UPCASE(TRIM(REGION)) | | UPCASE(TRIM(TIMEPD));
                OUTPUT;
         END;
         MAJGRP = "Benchmark";
         REGION = 'NORTH';
         REGCAT = 'NORTH';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'Overseas Europe';
         REGCAT = 'Overseas Europe';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) |
                UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'Overseas Pacific';
         REGCAT = 'Overseas Pacific';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE))
                UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) |
UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'Overseas Latin America';
         REGCAT = 'Overseas Latin America';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
                UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) |
UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'SOUTH';
         REGCAT = 'SOUTH';
         UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'WEST';
         REGCAT = 'WEST';
         UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'OVERSEAS';
         REGCAT = 'OVERSEAS';
         UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
```

```
OUTPUT;
       MAJGRP = "Benchmark";
       REGION = 'USA MHS';
       REGCAT = 'USA MHS';
       OUTPUT;
     END;
  END;
  IF SCORE = . THEN DELETE;
RUN;
PROC SORT DATA=MERGFINQ; BY KEY; RUN;
*******************
* Append ORDERing variable to the merged Scores database file
********************************
DATA MERGFINQ MISSING;
  MERGE MERGFINQ(IN=IN1) ORDER(IN=IN2);
  BY KEY;
  LENGTH FLAG $30;
  IF IN1 AND IN2 THEN FLAG = "IN SCORES DB AND LAYOUT"; ELSE IF IN1 THEN FLAG = "IN SCORES DB ONLY";
           IN2 THEN FLAG = "IN LAYOUT ONLY";
  ELSE IF
  LENGTH SOURCE $30;
  IF SVCAHPQ = 1 THEN SOURCE = "CAHPS
  IF SVMPRQ = 1 THEN SOURCE = "MPR ";
  IF SVBENQ = 1 THEN SOURCE = "BENCHMARK";
  IF IN1 AND NOT IN2 THEN OUTPUT MISSING; *Missing from layout;
  IF IN1 THEN OUTPUT MERGFINQ;
RUN;
************************
* Reorder file according to WEB layout
PROC SORT DATA=MERGFINQ OUT=OUT.MERGFINQ; BY ORDER; RUN;
DATA FAKEQ;
  SET IN1.FAKEO;
  ORDER = _N_;
RUN;
DATA LAYONLY;
  MERGE FAKEQ(IN=IN1) OUT.MERGFINQ(IN=IN2 KEEP=ORDER);
  BY ORDER;
  IF IN1 AND NOT IN2;
RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: MERGFINQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFINQ.sas7bdat - Merged Final Scores Database for input to
MAKEHTML.SAS";
TITLE5 "MERGFINQ.sas7bdat Data source counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES SOURCE FLAG SVCAHPQ SVMPRQ SVBENQ
                SVCAHPQ*SVMPRQ*SVBENQ
     /MISSING LIST;
RUN;
TITLE5 "MERGFINQ.sas7bdat Data attribute counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/23/03 Added TIMEPD*/
     REGION*REGCAT
     /MISSING LIST;
```

RUN;

G.6 Q3FY2013\PROGRAMS\LOADWEB\CONUS_Q.SAS - Generate CAHPS CONUS scores and perform significance tests - Run Quarterly.

```
PROGRAM: CONUS_Q.SAS
TASK:
          Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
PURPOSE: Generate CAHPS CONUS scores and perform significance tests.
WRITTEN: 11/13/2000 BY KEITH RATHBUN, Adapted from CONUS_A.SAS.
          Merged SIGNIF_A.SAS funtionality.
MODIFIED: 1) 04/10/2002 BY KEITH RATHBUN, Update for 2002 survey:
             changed code to process 4 rolling quarters.
          2) 04/30/2002 By Eric Schone, to calculate & test trend.
          3) 07/17/2002 BY MIKE SCOTT, Updated %LET statements for
             Q2 2002.
          4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
          5) 07/08/2003 BY MIKE SCOTT, Updated for Q2 2003. Changed BENTYPE="&PERIOD4"
             to BENTYPE="Composite". Added TIMEPD to KEY and FREQ.
          6) 07/23/2003 BY MIKE SCOTT, Added TIMEPD constraint to DATA LASTQTR.
          7) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003. 8) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
          9) 01/28/2004 BY MIKE SCOTT, Updated LSTCONUS to point to Q3_2003t.
         10) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
         11) 06/22/2004 BY REGINA GRAMSS, Updated for Q2 2004, Added conditions
             to avoid error messages in data sigtest2 step (ensure degree of freedom
             is not zero for the probt function) and data trend steps (ensure division
             by zero is not taking place).
         12) 09/2004 BY REGINA GRAMSS, Updated for Q3, 2004. Added in codes
             for trend calculations (per Eric Schone). Revised to use XTNEXREG.
         13) 01/2005 BY REGINA GRAMSS, Changed codes for XTNEXREG to XSERVREG
             to incorporate service affiliation into regions. Change
             adjustments made to trend calculation to what was previous.
         14) 06/2005 BY REGINA GRAMSS, Included relevant codes from TOTAL_Q.SAS
             to consolidate both programs into one. TOTAL_Q.SAS will no longer
             be used. Also put in codes to set trend score to missing if any of the
             previous scores are missing.
         15) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005
         16) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
         17) 07/2006 BY Justin Oh, Updated for Q3 FY 2006
         18) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         19) 12/20/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         20) 02/02/2007 By Justin Oh - Added "s" to Healthy Behaviors.
         21) 02/16/2007 By Justin Oh - Added if statement to change BENEFIT
             "Heathly Behavior" to Healthy "Behaviors" for the Last CONUS_Q.SD2 data
         22) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         23) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
             Benchmark OR PurchasedBenchmark.
         24) 04/05/2007 by Justin Oh - Added changes to select RC types
             ReportCards OR PurchasedReportCards.
         25) 10/03/2007 by Justin Oh - Removed code that removed Civilian PCM.
             IF "&RCTYPE" = 'ReportCards' AND
             MAJGRP="Enrollees with Civilian PCM" THEN DELETE;
         26) 10/03/2007 by Justin Oh - Removed %LET BCHTYPE to select BCH types
             Benchmark OR PurchasedBenchmark.
         27) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         28) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         29) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS
         32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA where appropriate
         33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS
```

```
34) 04/11/2009 By Mike Rudacille - Changed BENTYPE and Composite definitions
               to reflect modifications to beneficiary reports necessary for {\tt V4}
           35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           37) 12/17/2010 by Emma Ernst- Changed %LET PERIOD1 - PERIOD4.
               Changed %LET LSTCONUS
           38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           39) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           40) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           41) 12/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           42) 02/24/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           43) 12/10/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           44) 03/05/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           45) 06/20/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           46) 08/23/2012 By Christine Cheu - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           47) 11/03/2012 By Mike Rudacille - Updated for handling of
               Joint Service facilities
           48) 12/28/2012 By Aimee Valenzuela - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS for Q1FY2013
           49) 03/23/2013 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS for Q2FY2013
   INPUTS: 1) MERGFINQ.sas7bdat - Scores Database in WEB Layout
            2) FAKEQ.sas7bdat - Scores Database WEB Layout
            3) CONUS_Q.sas7bdat - Previous Quarters Combined CAHPS/MPR Scores Database in WEB
layout
   OUTPUT: 1) TOTAL_Q.sas7bdat - Combined CAHPS/MPR Scores Database in WEB layout
            2) LT30Q.sas7bdat - Records with <= 30 observations
            3) CONUS_Q.sas7bdat - Current Quarters Combined CAHPS/MPR Scores Database in WEB
layout
    NOTES:
* 1) The following steps need to be run prior to this program:
    - STEP1Q.SAS - Recode questions and generate group files
- STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
    - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
    - LOADCAHPQ.SAS - Combine all questionnaire (CAHPS) scores together
    - PRVCOMPQ.SAS - Calculate preventative measure scores for group1-8
    - SMOKING_BMI.SAS
                        - Calculate healthy behaviors scores for group1-8
    - LOADMPRQ.SAS - Combined preventative and healthy behaviors scores
    - MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases
******************
* Assign data libraries and options
*****
LIBNAME IN1 ".";
LIBNAME OUT ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;
************************
* Define GLOBAL parameters for last CONUSQ.sas7bdat, rolling quarters, and
* input dataset name.
* IMPORTANT: Update these GLOBALS each quarter prior to rerunning program.
%LET LSTCONUS = ..\..\Q2FY2013t\Programs\Loadweb;
```

```
%LET PERIOD1 = July, 2012;
%LET PERIOD2 = October, 2012;
%LET PERIOD3 = January, 2013;
%LET PERIOD4 = April, 2013;
%LET DSN
           = MERGFINQ;
*****************************
* Set up empty template file for data merge purposes and set first time flag
***********************
DATA INIT;
  SET IN1.&DSN;
  DELETE;
RIIN;
LET FLAG = 0;
*******************
* Process Macro Input Parameters:
* 1) BENTYPE = Benefit Type
* 2) MAJGRP = Major Group
* 3) TYPE = INDIVIDUAL or COMPOSITE
* 4) BENEFIT = COMPOSITE Benefit Type
%MACRO PROCESS(BENTYPE=,MAJGRP=,TYPE=,BENEFIT=);
DATA TEMP;
  SET IN1.&DSN END=FINISHED;
  %IF "&TYPE" = "INDIVIDUAL" %THEN %DO;
      WHERE BENTYPE = "&BENTYPE" AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
            /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
            /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
            SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
            SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
           REGION NOT IN ("ARMY", "AIR FORCE", "NAVY", "OTHER", "JOINT SERVICE");
  %END;
  %ELSE %IF "&TYPE" = "COMPOSITE" %THEN %DO;
      WHERE BENTYPE = &BENTYPE AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
           BENEFIT = "&BENEFIT" AND
            /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
            /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
           SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
           SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
           REGION NOT IN ("ARMY", "AIR FORCE", "NAVY", "OTHER", "JOINT SERVICE");
  %END;
  %ELSE %DO;
      PUT "ERROR - Invalid Type = &TYPE";
  %END;
  IF SUBSTR(REGION,1,5) IN ('North','South') THEN DO;
            SUBSTR(REGION, 1, 5) = 'North' THEN REGCON=1;
     ELSE IF SUBSTR(REGION,1,5)='South' THEN REGCON=2;
     TOTCON=1;
            SUBSTR(REGION, 7, 4) = 'Army'
                                          THEN SERVICE=1;
     ELSE IF SUBSTR(REGION, 7, 9) = 'Air Force' THEN SERVICE=2;
     ELSE IF SUBSTR(REGION, 7, 4) = 'Navy'
                                          THEN SERVICE=3;
     ELSE IF SUBSTR(REGION,7,5)='Joint'
                                          THEN SERVICE=5;
     ELSE
                                              SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,4)='West' THEN DO;
     TOTCON=1;
     TF
           SUBSTR(REGION, 6, 4) = 'Army' THEN SERVICE=1;
     ELSE IF SUBSTR(REGION, 6, 9) = 'Air Force' THEN SERVICE=2;
     ELSE IF SUBSTR(REGION, 6, 4) = 'Navy'

THEN SERVICE=3;
     ELSE IF SUBSTR(REGION, 6, 5) = 'Joint'
                                          THEN SERVICE=5;
     ELSE
                                               SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,6)='Europe' THEN DO;
     REGCON=4;
     TOTCON=2;
     IF SUBSTR(REGION, 8, 4) = 'Army'
                                          THEN SERVICE=1;
     ELSE IF SUBSTR(REGION, 8, 9) = 'Air Force' THEN SERVICE=2;
```

```
ELSE IF SUBSTR(REGION, 8, 4) = 'Navy'

ELSE IF SUBSTR(REGION, 8, 5) = 'Joint'

ELSE
                                                  THEN SERVICE=5;
      ELSE
                                                        SERVICE=4;
   END;
      ELSE IF SUBSTR(REGION, 1, 7) = 'Pacific' THEN DO;
      REGCON=5;
      TOTCON=2;
              SUBSTR(REGION, 9, 4) = 'Army'
                                                 THEN SERVICE=1;
      ELSE IF SUBSTR(REGION, 9, 9) = 'Air Force' THEN SERVICE=2;
      ELSE IF SUBSTR(REGION, 9, 4) = 'Navy'

ELSE IF SUBSTR(REGION, 9, 4) = 'Navy'
                                                   THEN SERVICE=3;
      ELSE IF SUBSTR(REGION, 9, 5) = 'Joint'
                                                  THEN SERVICE=5;
      ELSE
                                                        SERVICE=4;
   ELSE IF SUBSTR(REGION, 1, 13) = 'Latin America' THEN DO;
      TOTCON=2;
      IF
              SUBSTR(REGION, 15, 4) = 'Army'
                                                  THEN SERVICE=1;
      ELSE IF SUBSTR(REGION, 15,9) = 'Air Force' THEN SERVICE=2;
      ELSE IF SUBSTR(REGION, 15, 4) = 'Navy' THEN SERVICE=3;
                                                 THEN SERVICE=5;
      ELSE IF SUBSTR(REGION, 15, 5) = 'Joint'
      ELSE
                                                        SERVICE=4;
   END;
RUN;
* RSG 01/2005 Calc. total Service Affiliation Scores *;
PROC SORT DATA=TEMP;
BY SERVICE;
DATA TEMP2;
   SET TEMP;
   BY SERVICE;
      length key $200;
   IF FIRST.SERVICE THEN DO;
      SUMSCOR1 - 0:

SUMWGT1 = 0:

RETAIN SUMWSE2:

RETAIN SUMWGT2
      SUMSCOR1 = 0;      RETAIN SUMSCOR1;
                        RETAIN SUMWGT1;
     SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN N_OBS1;
   END;
   IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT); IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
   IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
   IF N_OBS NE . THEN N_OBS1 + N_OBS;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
     FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;
   IF LAST.SERVICE THEN DO;
      IF SUMWGT1 NOTIN (.,0) THEN DO;
         SCORE = SUMSCOR1/SUMWGT1;
         SEMEAN = SQRT(SUMSE2)/SUMWGT1;
      ELSE DO:
         SCORE
                 = .;
         SEMEAN = .;
      END;
      N_OBS = N_OBS1;
      N_WGT
               = SUMWGT1;
      SOURCE = "USA";
             = "USA";
      IF SERVICE=1 THEN REGION = "ARMY";
      IF SERVICE=2 THEN REGION = "AIR FORCE";
      IF SERVICE=3 THEN REGION = "NAVY";
      IF SERVICE=4 THEN REGION = "OTHER";
      IF SERVICE=5 THEN REGION = "JOINT SERVICE";
```

THEN SERVICE=3;

ELSE IF SUBSTR(REGION, 8, 4) = 'Navy'

```
REGCAT = REGION;
    OUTPUT;
  END;
RIIN:
************************
* RSG 01/2005 Calc. Total Region scores
*****************
PROC SORT DATA=TEMP;
BY REGCON;
DATA TEMP3;
  SET TEMP;
  BY REGCON;
    length key $200;
  IF FIRST.REGCON THEN DO;
    SUMSCOR1 = 0;     RETAIN SUMSCOR1;
     SUMWGT1 = 0;      RETAIN SUMWGT1;
    SUMSE2 = 0; RETAIN SUMSE2;
SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN N_OBS1;
  END;
  IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
  IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
  IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
  IF N_OBS NE . THEN N_OBS1 + N_OBS;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
    FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;
  IF LAST.REGCON THEN DO;
     IF SUMWGT1 NOTIN (.,0) THEN DO;
       SCORE = SUMSCOR1/SUMWGT1;
       SEMEAN = SQRT(SUMSE2)/SUMWGT1;
     END;
     ELSE DO;
       SCORE = .;
       SEMEAN = .;
     END;
    N_OBS
          = N_OBS1;
    N_WGT = SUMWGT1;
     SOURCE = "REGION";
           = "REGION";
     FTAG
     IF REGCON=1 THEN REGION = "NORTH";
     IF REGCON=2 THEN REGION = "SOUTH";
     IF REGCON=3 THEN REGION = "WEST";
     IF REGCON=4 THEN REGION = "Overseas Europe";
     IF REGCON=5 THEN REGION = "Overseas Pacific";
     IF REGCON=6 THEN REGION = "Overseas Latin America";
     REGCAT = REGION;
     UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
    OUTPUT;
  END;
RIIN;
* RSG 01/2005 Calc. Total CONUS Scores
* MER 01/2009 Changed CONUS to USA
PROC SORT DATA=TEMP;
BY TOTCON;
DATA TEMP4;
  SET TEMP END=FINISHED;
  BY TOTCON;
    length key $200;
  IF FIRST.TOTCON THEN DO;
    SUMSCOR1 = 0;
                 RETAIN SUMSCOR1;
```

```
SUMWGT1 RETAIN SUMWGT2;
SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN SUMWGT2;
                       RETAIN SUMWGT2;
   END;
      IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
      IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
      IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
      IF N_OBS NE . THEN N_OBS1 + N_OBS;
   IF LAST. TOTCON THEN DO;
      IF SUMWGT1 NOTIN (.,0) THEN DO;
        SCORE = SUMSCOR1/SUMWGT1;
        SEMEAN = SQRT(SUMSE2)/SUMWGT1;
         END:
         ELSE DO;
           SCORE = .;
SEMEAN = .;
         END;
      N_OBS = N_OBS1;
      N WGT
             = SUMWGT1;
      SOURCE = "USA";
            = "USA";
   IF TOTCON=1 THEN REGION = "USA MHS";
   IF TOTCON=2 THEN REGION = "OVERSEAS";
      REGCAT = REGION;
      KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
            UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
END;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
    FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;
RUN;
%IF &FLAG = 0 %THEN %DO;
   DATA FINAL;
     SET INIT TEMP2 TEMP3 TEMP4;
  RIIN;
%END;
%ELSE %DO;
   DATA FINAL;
     SET FINAL TEMP2 TEMP3 TEMP4;
  RUN;
%END;
LET FLAG = 1;
%MEND;
******************
* Create CONUS for Active Duty - Individual
*************************
%PROCESS(BENTYPE=Claims Handled Correctly
                                                    ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
*PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
                                                    ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
%PROCESS(BENTYPE=Listens Carefully
%PROCESS(BENTYPE=Shows Respect
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                    ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
```

```
* Create CONUS for Active Duty Dependents - Individual
*****************************
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
                                                ,MAJGRP=Active Duty Dependents,
%PROCESS(BENTYPE=Getting to See a Specialist
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                 ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
* Create CONUS for Enrollees with Civilian PCM - Individual
*******************************
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                 ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                 .MAJGRP=Enrollees with Civilian PCM.
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                               .MAJGRP=Enrollees with Civilian PCM.
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                 ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
                                                ,MAJGRP=Enrollees with Civilian PCM,
%PROCESS(BENTYPE=Wait for Routine Visit
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                 ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
* Create CONUS for Enrollees with Military PCM - Individual
%PROCESS(BENTYPE=Claims Handled Correctly
                                              ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                               ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
```

```
%PROCESS(BENTYPE=Listens Carefully
                                                                          ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                                            ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                                          ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
                                                                           ,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Wait for Routine Visit
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                                            ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
****************
* Create CONUS for Non-enrolled Beneficiaries - Individual
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
%PROCESS(BENTYPE=Getting Information
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                                           .MAJGRP=Non-enrolled Beneficiaries.
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                                          ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
%PROCESS(BENTYPE=Wait for Urgent Care
TYPE=INDIVIDUAL);
************************
* Create CONUS for Prime Enrollees - Individual
*******************************
%PROCESS(BENTYPE=Claims Handled Correctly
                                                                          ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
*PROCESS(BENTYPE=Cetting Teffer); *MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL); *MAJGRP=TROLLees, TYPE=INDIVIDUAL); *MAJGRP=TROLLees,
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
                                                                           ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                                           ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                                          ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                                          ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
%PROCESS(BENTYPE=Wait for Routine Visit
                                                                           ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                                           ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
* Create CONUS for Retirees and Dependents - Individual
%PROCESS(BENTYPE=Claims Handled Correctly
                                                                          ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                                            ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                                          ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                                           ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                                                          ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                                          ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
```

```
%PROCESS(BENTYPE=Listens Carefully
                                            ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                             ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                            ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
                                             ,MAJGRP=Retirees and Dependents,
%PROCESS(BENTYPE=Wait for Routine Visit
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                             ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
*****************
* Create CONUS for All Beneficiaries - Individual
************************
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
*PROCESS(BENTYPE=Getting Information (MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

*MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

*MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

*MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                            ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                            ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                            ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
                                             ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
%PROCESS(BENTYPE=Wait for Urgent Care
                                             ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
*******************
* Process Quarterly CONUS Composites
******************
************************
* Create CONUS for Claims Processing - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
Processing); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
Processing);
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
Processing);
*******************
* Create CONUS for Customer Service - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                               , TYPE=COMPOSITE, BENEFIT=Customer
Service); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Customer
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Customer
Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Customer
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Customer
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                       . TYPE=COMPOSITE.BENEFIT=Customer
Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                        , TYPE=COMPOSITE, BENEFIT=Customer
Service);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                       , TYPE=COMPOSITE, BENEFIT=Customer
Service);
******************
* Create CONUS for Getting Care Quickly - Quarterly
**************************
```

```
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                          , TYPE=COMPOSITE, BENEFIT=Getting
Care Quickly); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Care Ouickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Getting
Care Ouickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Getting
Care Ouickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Care Quickly);
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
Care Ouickly);
*******************
* Create CONUS for Getting Needed Care - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
******************
* Create CONUS for Health Care - Quarterly
*************************
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         . TYPE=COMPOSITE.BENEFIT=Health
Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                          , TYPE=COMPOSITE, BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                          , TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                          , TYPE=COMPOSITE, BENEFIT=Health
Care);
******************
* Create CONUS for Health Plan - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         , TYPE=COMPOSITE, BENEFIT=Health
Plan); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=Health
Plan);
```

```
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                          , TYPE=COMPOSITE, BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                          , TYPE=COMPOSITE, BENEFIT=Health
Plan);
**************************
* Create CONUS for How Well Doctors Communicate - Quarterly
*************************
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                          , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
                                                          , TYPE=COMPOSITE, BENEFIT=How Well
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
Doctors Communicate);
* Create CONUS for Primary Care Manager - Quarterly
*******************************
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                          , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents
                                                        , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
                                                          , TYPE=COMPOSITE, BENEFIT=Primary
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                          , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
******************
* Create CONUS for Specialty Care - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
TYPE=COMPOSITE, BENEFIT=Specialty Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
TYPE=COMPOSITE, BENEFIT=Specialty Care);
*******************
* Extract ORDER and KEY from the WEB Layout file. TEMPQ will be used
^{\star} as place holders for missing records. FAKEQ will be used for adding
* new records.
                *****************
DATA FAKEO;
```

SET IN1.FAKEQ;

```
length key $200;
  SIG = .;
  SCORE = .;
  ORDER = N ;
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
       UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
RIIN;
PROC SORT DATA=FAKEQ OUT=TEMPQ;
                               BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;
************************
* Append BENCHMARK records to CAHPS records and perform significance tests
DATA BENCHMRK(KEEP=MAJGRP BENEFIT BENTYPE SEMEAN SCORE);
  SET IN1.&DSN;
  WHERE SUBSTR(REGION, 1,5) = "Bench" AND SVMPRO = 0;
RUN;
Data abnchmrk(keep=benefit bentype ascore);
set benchmrk;
where upcase(majgrp)='ALL BENEFICIARIES';
rename score=ascore;
run;
proc sort; by benefit bentype;
proc sort data=benchmrk; by benefit bentype;
data benchmrk;
merge benchmrk abnchmrk; by benefit bentype;run;
PROC SORT DATA=BENCHMRK; BY MAJGRP BENEFIT BENTYPE; RUN;
PROC SORT DATA=FINAL; BY KEY; RUN;
DATA CONUS_Q;
  MERGE FINAL(IN=IN1) FAKEQ(IN=IN2);
  BY KEY;
  IF IN1;
RIIN;
PROC SORT DATA=CONUS_Q; BY MAJGRP BENEFIT BENTYPE; RUN;
************************
* Perform significance tests for CONUS scores
********************************
DATA SIGTEST1;
  MERGE CONUS_Q(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  length key $200;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP), N_OBS-1)); /** RSG 06/22/2004 - PUT CONDITION TO
AVOID DF=0 WHICH CAUSES ERROR FOR PROBT FUNCTION **/
  ELSE TEST = .; /** RSG 06/22/2004 - ADDED FOR CASES WITH N OBS = 1 OR LESS SINCE PROBT CAN'T
BE PERFORMED AND WOULD RESULT IN TEST = MISSING ANYWAY **/
  SIG = 0;
  IF TEST < 0.05 AND TEST NE . THEN SIG = 1; /** RSG 06/22/2004 - ADDED CONDITION "TEST NE ." IN
CASE MISSING IS CONSIDERED LESS THAN 0.05 **/
  IF SCORE < BSCORE THEN SIG = -SIG;
  SOURCE = "USA_Q";
  FLAG = "USA_Q";
  IF SIN;
  score=score+ascore-bscore;
RUN;
PROC SORT DATA=SIGTEST1; BY KEY; RUN;
************************
* Extract CAHPS scores to perform significance tests
******************************
DATA CAHPS MPR bench;
  SET IN1.&DSN;
  *******************
```

```
* Significance tests have already been performed for MPR scores,
  * so remove from file.
  ************************
  IF SVMPRO = 1 THEN OUTPUT MPR;
  IF SVMPRQ = 0 THEN do;
   if majgrp ne 'Benchmark' then OUTPUT CAHPS;
   else output bench; end;
RUN;
PROC SORT DATA=CAHPS;
  BY MAJGRP BENEFIT BENTYPE;
******************
* Perform significance tests for CAHPS scores
*************************
DATA SIGTEST2;
  MERGE CAHPS(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP), N_OBS-1)); /** RSG 06/22/2004 PUT N_OBS > 1
CONDITION TO AVOID ERRORS BECAUSE PROBT CAN NOT HANDLE DF=0 **/
  ELSE TEST = .;
  SIG = 0;
  IF N_OBS >= 30 AND TEST < 0.05 THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;
  IF SIN;
  score=score+ascore-bscore;
  RUN;
proc sort data=bench; by majgrp benefit bentype;
data sigtest2;
set sigtest2 bench; by majgrp benefit bentype;
PROC SORT DATA=SIGTEST2; BY KEY; RUN;
************************
* When NOT 1st quarter: Get records from previous quarters
***********************
%MACRO LASTOTR;
  ************************
  * Input composite records from previous quarters.
  ************************
  LIBNAME IN2 "&LSTCONUS";
  DATA LASTQTR (drop=key2); /*RSG 10/2005 - KEY2 WAS CREATED AT END OF PROG TO HELP
                          SET TREND TO MISSING FOR SCORES MISSING IN ANY QUARTERS
                          THIS SHOULD BE DROPPED AND RESET AT THE END OF PROG*/
     SET IN2.CONUS_Q (DROP=KEY);
/*** Change BENEFIT "Heathly Behavior" to Healthy "Behaviors" JSO 02/16/2007 ***/
     IF BENEFIT = 'Healthy Behavior' THEN BENEFIT = 'Healthy Behaviors';
/*** Change SOURCE and FLAG from "CONUS_Q" to "USA_Q" MER 01/29/2009 ***/
/*** Change REGION and REGCAT from "CONUS MHS to USA MHS" MER 01/29/2009 ***/
     IF SOURCE = 'CONUS_Q' THEN SOURCE = 'USA_Q';
     IF FLAG = 'CONUS_Q' THEN FLAG = 'USA_Q';
     IF REGION = 'CONUS MHS' THEN REGION = 'USA MHS';
     IF REGCAT = 'CONUS MHS' THEN REGCAT = 'USA MHS';
     IF timepd IN ("&PERIOD1", "&PERIOD2", "&PERIOD3") AND
       (REGION = REGCAT) AND
       BENEFIT IN ("Getting Needed Care",
                  "Getting Care Quickly",
                  "How Well Doctors Communicate",
                  "Customer Service",
                  "Claims Processing",
                  "Health Care",
                  "Health Plan",
                  "Primary Care Manager",
                  "Specialty Care",
                  "Preventive Care"
                  "Healthy Behaviors") & TIMEPD NE "Trend";
```

```
RUN;
%MEND LASTOTR;
%LASTQTR;
PROC SORT DATA=LASTQTR(DROP=ORDER); BY KEY; RUN;
DATA LASTQTR;
  MERGE TEMPQ(IN=IN1) LASTQTR(IN=IN2);
  BY KEY;
  IF IN1 AND IN2;
RUN;
PROC SORT DATA=MPR; BY KEY; RUN;
*******************
* Combine previously created records with the new file
**************************
DATA COMBINE OUT.LT30Q;
  SET SIGTEST1 SIGTEST2 LASTQTR MPR;
  BY KEY;
                                      ***MJS 07/08/03 Changed from bentype="&period1";
  if timepd="&period1" then period=1;
  if timepd="&period2" then period=2;
if timepd="&period3" then period=3;
if timepd="&period4" then period=4;
if timepd="&period4" then period=4;
***MJS 07/08/03 Changed from bentype="&period3";
***MJS 07/08/03 Changed from bentype="&period4";
   ******************
   * Remove N_OBS < 30 OR N_WGT < 200
                                   *****************************
   IF (N_OBS < 30 OR N_WGT < 200) AND (MAJGRP NE "Benchmark") AND
     (REGION NE "Benchmark")
     THEN OUTPUT OUT.LT30Q;
   ELSE OUTPUT COMBINE;
RIIN;
data trend;
set combine;
where period ne . ;
if period<4|benefit="Preventive Care" then score=score/100;
proc sort data=trend;
by majgrp region regcat benefit bentype period;
run;
data avg(keep=majgrp region regcat benefit t_obs a_period a_score twgt bentype) ;
set trend; by majgrp region regcat benefit bentype period;
if majgrp="Benchmark" | region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentype then do;
t_obs=0;
t score=0;
twgt=0;
t_period=0;
end;
t obs+n obs;
t_Score+n_wgt*score;
twgt+n_wgt;
t_period+period*n_wgt;
 if last.majgrp|last.region|last.regcat|last.benefit|last.bentype then do;
    if twgt notin (.,0) then do;
      a_score=t_score/twgt;
      a_period=t_period/twgt;
   end;
   else do;
      a_score=.;
      a_period=.;
   end;
   output;
end;
RIIN;
```

```
data trend2(drop=score) btrend(keep=majgrp benefit bentype trend serr);
merge trend avg; by majgrp region regcat benefit bentype;
if majgrp="Benchmark" | region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentype then do;
t_score=0;
t_se=0;
t_period=0;
end;
t_se+((n_wgt**2)*(semean**2));
t_score+n_wgt*(score-a_score)*(period-a_period);
t_period+n_wgt*(period-a_period)**2;
if last.majgrp|last.region|last.regcat|last.benefit|last.bentype then do;
if t_period ne 0 then do;
                           /* RSG 06/22/2004 Added to avoid division by zero*/
  trend=t_score/t_period;
  serr=sqrt(t_se/(t_period*twgt));
end;
else do;
  trend=.;
  serr=.;
end;
if region="Benchmark" | majgrp="Benchmark" then output btrend;
output trend2;
end;
proc sort data=trend2; by majgrp benefit bentype;RUN;
proc sort data=btrend; by majgrp benefit bentype;
data trend3(rename=(trend=score));
merge trend2 btrend(rename=(trend=btrend serr=bserr));
by majgrp benefit bentype;
  length key $200;
if ^(region="Benchmark" | majgrp="Benchmark") then do;
ttrend=trend-btrend;
serr=sqrt((serr**2)+(bserr**2));
sig=0;
if serr > 0 and t_obs notin (.,0) then test= 2*(1-probt(abs(ttrend/serr),t_obs)); /* RSG
06/22/2004 Added to avoid division by zero*/
else test = .;
if test<.05 & test ne . then sig=1;
if sig=1 & ttrend<0 then sig=-1;
end;
timepd="Trend";
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) |
        UPCASE(TRIM(MAJGRP))
                               UPCASE(TRIM(REGCAT))
        ***MJS 07/08/03 Added TIMEPD;
run;
proc sort data=trend3(drop=t_obs twgt a_score a_period t_score t_se t_period serr
bserr btrend ttrend order); by key;
data trend4 ;
merge trend3(in=din) fakeq(in=cin); by key;
if din;
RUN;
data combine2;
set combine trend4; RUN;
proc sort; by key;
data combine3 dupe;
set combine2; by key;
if ^(first.key & last.key) then output dupe;
output combine3;
proc print data=dupe;run;
/* RSG 06/2005 - set trend to missing for component/composite
  scores with missing scores in any of the quarter*/
data misses (keep=key2) all;
set combine3;
length key2 $200.;
KEY2 = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
           UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | |
           UPCASE(TRIM(REGION));
if score = . then output misses;
output all;
```

```
run;
proc sort data=misses;
by key2;
proc sort data=all;
by key2;
run;
data combine4;
merge all (in=a) misses (in=b);
by key2;
if a and b then do;
 if timepd = "Trend" then score = .;
end;
run;
*********************
* Create place holders for missing records
DATA FAKEONLY;
  MERGE COMBINE4(IN=IN1) TEMPQ(IN=IN2);
  BY KEY;
  SOURCE = "FAKE ONLY";
  FLAG = "FAKE ONLY";
  IF IN2 AND NOT IN1;
RUN;
************************
* Combine all of the missing records with the existing records to generate
* the complete WEB layout file.
*******************************
DATA CONUS_Q;
  SET FAKEONLY COMBINE4;
  * Convert CAHPS Composites and Individual to 1-100 scale
  IF timepd="Trend" OR (timepd="&PERIOD4" & benefit ne "Preventive Care")
     t.hen
      SCORE = SCORE*100;
RUN;
PROC SORT DATA=CONUS_Q; BY ORDER; RUN;
DATA FAKEQ;
  SET IN1.FAKEQ;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
        UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/31/03 Added TIMEPD;
RUN;
PROC SORT DATA=FAKEQ OUT=TEMPQ;
                                  BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;
PROC SORT DATA=CONUS_Q out=OUT.CONUS_Q;
BY KEY;
RIIN;
DATA FAKEONLY;
  MERGE OUT.CONUS_Q(IN=IN1) TEMPQ(IN=IN2);
  BY KEY;
  SOURCE = "FAKE ONLY";
  FLAG = "FAKE ONLY";
  IF IN2 AND NOT IN1;
RUN;
DATA TOTAL_Q;
  SET FAKEONLY OUT.CONUS_Q;
  BY KEY;
  IF MAJGRP="All Beneficiaries" then MAJGRP="All Users";
```

```
IF MAJGRP="Non-enrolled Beneficiaries" then MAJGRP="Standard/Extra Users";
   IF BENEFIT="Primary Care Manager" THEN BENEFIT="Personal Doctor"; /*MJS 02/05/2003*/
   ^{\prime\star} 11/14/2005 RSG - ADDED IN THESE CODE TO CAPITALIZE ALL WORDS IN TITLE ^{\star\prime}
   /*IF BENTYPE = "Problems Getting Referral to Specialist
     THEN BENTYPE = "Problems Getting Referral To Specialist
   IF BENTYPE = "Delays in Care while Awaiting Approval
     THEN BENTYPE = "Delays In Care While Awaiting Approval
   IF BENTYPE = "Advice over Telephone
                                                                ";
     THEN BENTYPE = "Advice Over Telephone
   IF BENTYPE = "Wait for Routine Visit
     THEN BENTYPE = "Wait For Routine Visit
   IF BENTYPE = "Wait for Urgent Care
      THEN BENTYPE = "Wait For Urgent Care
   IF BENTYPE = "Wait More than 15 Minutes Past Appointment
     THEN BENTYPE = "Wait More Than 15 Minutes Past Appointment";
   IF BENTYPE = "Explains so You can Understand
      THEN BENTYPE = "Explains So You Can Understand
   IF BENTYPE = "Spends Time with You
                                                                ıı ;
     THEN BENTYPE = "Spends Time With You
   IF BENTYPE = "Courteous and Respectful
     THEN BENTYPE = "Courteous And Respectful
   IF BENTYPE = "Problem Getting Help from Customer Service
     THEN BENTYPE = "Problem Getting Help From Customer Service";
   IF BENTYPE = "Problem with Paperwork
     THEN BENTYPE = "Problem With Paperwork
                                                                " ;
   IF BENTYPE = "Claims Handled in a Reasonable Time
     THEN BENTYPE = "Claims Handled In A Reasonable Time
                                                               ";*/
   IF substr(region,1,5) in ('Latin', 'Europ', 'Pacif') Region='Overseas Latin America'
   then delete;
   IF REGION IN ("South Joint Service", "West Joint Service", "Europe Joint Service",
                 "Pacific Joint Service", "Latin America Joint Service") THEN DELETE;
RUN;
PROC SORT DATA=TOTAL_Q OUT=OUT.TOTAL_Q; BY ORDER; RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6401-904)";
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINQ.sas7bdat - Scores Database in WEB Layout";
TITLE4 "Program Outputs: TOTAL_Q.sas7bdat - USA Scores Database in WEB layout";
PROC FREO;
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/08/03 Added
TIMEDD*/
      REGION*REGCAT
     /MISSING LIST;
RIIN;
```

G.7 Q3FY2013\PROGRAMS\LOADWEB\CreateTotal_qp4.sas - Combines the regular totalq and purchase totalq into one dataset - Run Ouarterly.

```
/*** Project: 6244 DOD
/*** Program: CreateTotal_qp&PERIOD.sas
/*** Purpose: Add from Purchase Care's Totalq data, Enrollees with Civilian PCM ***/
/***
     to the Adult Beneficiary's Totalq data. New data will be use to
          populate the Purchase Care's section of the html reports.
/*** Author : Justin Oh 08/06/2008
                                                                  ***/
/*** Input : ..currentPeriod\PurchasedLoadweb\total_q
                                                                  ***/
/***
          ..currentPeriod\Loadweb\total_q
                                                                  ***/
/*** Output : .\total_q
                                                                  ***/
                                                                  ***/
/*** Modify :
/*** B-4-Run: Change the %LET statements at the top of the program.
                                                                  ***/
OPTIONS COMPRESS=YES;
/*** Reference quarter's period
                                                                  ***/
%LET PERIOD = 4;
/*** Adult Beneficiary and Purchase Care total_q.sas7bdat locations
                                                                  ***/
LIBNAME TOTQ_P '..\PurchasedLoadweb';
LIBNAME TOTQ_A '.';
LIBNAME TOTQ_X '.';
/*** Keep only Enrollees with Civilian PCM, used for the Purchased Care group
DATA total_pc;
  SET TOTQ_P.total_q;
  IF MAJGRP = 'Enrollees with Civilian PCM';
  IF MAJGRP = 'Enrollees with Civilian PCM' THEN MAJGRP = 'Purchased Care Users';
/*** Add Purchase Care's renamed MAJGRP to create a final total_q file
DATA TOTQ_X.total_qp.
  SET TOTQ_A.total_q total_pc;
```

G.8 Q3FY2013\PROGRAMS\LOADWEB\MAKEHTMQ.SAS - Generate HTML and XLS files for TRICARE Beneficiary Reports - Run Quarterly.

```
*=======;
         Programmer: Mark A. Brinkley
                    Title: MAKEHTMO.SAS
                   Client: 6077-410
                        Date: 06-01-2001
                 Purpose: This program is designed to create
                                            report cards for the 2000 DOD project
       Input files: TOTAL_QP4.sas7bdat
    Output files: HTML\
                                                1269*3 F*.HTM Files (Frame version)
                                                1269 P*.HTM Files (Printer friendly - no frames)
                                                     P*.XLS Files (Excel files)
         00:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:
              IF YOU MODIFY THIS PROGRAM THEN PLEASE INITIAL AND DOCUMENT
               YOUR CHANGES. THOSE FAILING TO DO THIS WILL BE SEVERELY
              BEATEN.
         00:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:
    Modifications:
   11-01-2000 - JSykes added pieces to create Excel Spreadsheets
* 07-01-2001 - MAB modified for qtr 2
   10-25-2001 - C.Rankin moved link to printer friendly version
                                      from frame, created macro variable to include
                                      third row of subbenefit heading
   11-01-2001 - D.Beahm changed splitpercent to splitpixel and adjusted;
                                      the pixel size of the top frame to prevent scrolling
                                      she also added a <BR> before the printer icon to make
                                     sure it appears on it's own line
    12-21-2001 - D.Beahm changed column widths for frame page a so that ;
                                      the column headers would line up with the data in frame;
                                     page b. Also revised Excel code so benchmarks for the ;
                                     majorgrp are shaded dark red instead of blue
    04-18-2002 - Quarterly report cards will now show a rolling 4
                                      quarters of data for the trend. DKB updated the period;
                                      BENTYPE references to account for this, this will need;
                                     to be done each quarter. Also revised footnote
                                      to indicate that this is the 2002 Survey of Health Care;
                                     Beneficiaries. This reflects a change from previous
                                     years, the survey year now refers to the processing
                                     year instead of the year for which data was collected. ;
                                     Also changed image reference from QTR to COL, these
                                     new names for the qtr images reflects the column they
                                     are in instead of the quarter they represent
    06-19-2002 - Mark Brinkley
                                             Updated for Q2_2002
                                             Changed macro var PERIOD to CURRENTPERIOD
                                             Added macro vars PERIOD1-PERIOD3
    07-29-2002 - Daniele Beahm
                                             Added links to trend pages. Clicking on the fielding;
                                             Period now takes you to the component page for that ;
                                             period and clicking on the Trend column header now
                                             takes you to the Trend section of the help file
* 02-04-2003 - Mike Scott
                                             Changed "Primary Care Manager" to "Personal Doctor"
* 02-10-2003 - Mike Scott
                                             Inserted LENGTH HREF $ 250 statements before
                                             href = "string" statements so that href wouldn't be ;
                                             set by default
```

```
* 02-14-2003 - Mike Scott
                 Added code to avoid scores > 100
 04-30-2003 - Mike Scott
                 Changed Preventive Care columns from 5 to 6 to
                  accommodate Cholesterol Testing.
 05-01-2003 - Mike Scott
                  Updated periods for Q1 2003, and changed "2001 and
                  2002" to "2002 and 2003" and "2002 Health Care
                  Survey" to "2003 Health Care Survey".
 05-04-2003 - Mike Scott
                 Removed Civilian PCM (var1=3 or majgrp=3), and
                  changed 4-8 references to 3-7.
 05-06-2003 - Mike Scott
                  Changed 7-0-0 to 8-0-0.
 05-13-2003 - Mike Scott
                  Changed two widths.
 05-14-2003 - Mike Scott
                  Changed columns from 2-12 to 1-11 which is
                  controlled by var3 - decreased var3's by 1 and
                 decreased K loops by 1.
 07-03-2003 - Mike Scott
                  Incorporated TIMEPD variable into program to run
                  with Q1 2003 TOTAL_Q rerun to include TIMEPD
                  variable.
 07-30-2003 - Mike Scott
                  Added else do section to correct header.
 07-31-2003 - Mike Scott
                  Updated periods for Q2 2003.
 08-01-2003 - Mike Scott
                 Added code so periods would print on var3=7,8,9,10.
  08-07-2003 - Regina Gramss
                 Changed program to create additional trend pages
                  for each sub-benefit: pages are now named with 4
                 numbers (var4 has been added to all file name
                  references) to compensate for additional layer
                  of pages. All file references have been changed
                  to include var4.
 01-28-2004 - Mike Scott
                  Changed back to html being generated in HTML
                  directory below directory where MAKEHTMQ is being
                 run.
 01-29-2004 - Mike Scott
                  Commented out LENGTH HREF $ 250 statements, since
                  HREF was already declared.
 02-11-2004 - Mike Scott
                 Changed all lengths to 100 that were less than 100.
 03-24-2004 - Mike Scott
                  Updated for Q1 2004. Changed hard-coded years in
                  footnotes stating source to macro variables.
 05-07-2004 - Mike Scott - Changed "Wait More than 15 Minutes Past
               Appointment" to "Wait in Doctor's Office" and
               "Problems Getting Referral to Specialist" to "Problems
               Getting to See Specialist". NAed out trends for the
               composites Getting Needed Care, Getting Care Quickly,
               and Customer Service and for the questions Problems
              Getting Personal Doctor/Nurse (GNC), Wait in Doctor's
              Office (GCQ), and Problem with Paperwork (CS).
 02-16-2004 - Mike Scott - Moved initial data read-in outside macro
              loop to speed up program.
 06-22-2004 - Regina Gramss - Updated for Q2 2004 run.
* 08-02-2004 - Regina Gramss - removed lines that replaced trend
              with NA
* 10-07-2004 - Regina Gramss - Adjusted for XTNEXREG
* 02-14-2005 - Mark Brinkley - added 12th benefit SMOKING
* 05-10-2005 - Regina Gramss - deleted chol testing under Prevention
              and added BMI for Healthy Behaviors (which replaced
              Smoking Cessation)
* 07-29-2005 - Regina Gramss - updated for Q2 2005 - changed period
              values to quarter, cy values (vs. dates)
* 10-31-2005 - Regina Gramss - updated for Q3 2005
* 12-28-2005 - Regina Gramss - updated for Q4 2005
* 05-11-2006 - Lucy Lu - updated for Q2 FY 2006
              change made: change macro variables SRCYR1 to SRFYR1
```

```
SRCYR2 to SRFYR2 ;
* 02-09-2007 - Justin Oh - condensed %if statement for bottom_notes
                         macro.
* 02-15-2007 - Justin Oh - added bottom_notes_xls to condensed %if
             statements for xls outputs in three places
* 02-01-2009 - Mike Rudacille - changed CONUS to USA
* 11-09-2012 - Mike Rudacille - added handling of 2 new servreg
             categories (JOINT SERVICE, North Joint Service)
* NOTE: Update only SRFYR1, SRFYR2, PERIOD1/2/3, and CURRENTPERIOD.
%LET SRFYR1 = 2012; *** Previous year; /*MJS 03/24/04 Added macro variables*/
%LET SRFYR2 = 2013; *** Current year;
/*** Added macro variables for previous periods (MAB 6-19-2002) ***/
%LET PERIOD1 = July, 2012;
%LET PERIOD2 = October, 2012;
%LET PERIOD3 = January, 2013;
/*** Change name of macro variable from PERIOD (MAB 6-19-2002) ***/
%LET CURRENTPERIOD = April, 2013; /** Current Period of these reports **/
%LET QTRS=4; /** Qtr of these reports **/
%LET QTRNO=0; /**LLU 5/15/06. ne 1 indicates the data is from current year and preceding year,
1 is from current year only*/
/*** Added macro variables for DDE/Excel fix (MER 05-03-2010) ***/
%LET CURRQTR = Q3FY2013;
OPTIONS NOXWAIT;
                     /* 2000/11: added noxwait*/
                           /**DANIELE CHANGED %STR( ) TO %NRSTR(&NBSP)**/
%LET HTMLSP=%NRSTR( );
%LET OUOTE=%STR("");
%LET OUTDIR=html;
                               /** Directory to put HTML files **/ /*MJS 01/28/04 Set to
HTMT.*/
%LET IMGDIR=images;
                               /** Directory with images **/
%LET TARGET=target='_parent';
                               /** HTML code for frames targeting **/
                               /** 1=Make XLS file/0=Don't Added 1-24 MAB **/
%LET OUTXLS=1;
%LET fontface=%STR(Arial, Helvetica, Swiss, Geneva);
%LET hdcolr=%STR('white');
%LET BLUE=%STR('#663300');
                               /** This is really dark red **/
%LET GREEN=%STR('#009933');
%LET RED=%STR('#cc0000');
%LET GRAY=%STR('white');
%LET LOGO=%STR('images\tricare_side_35_new.gif');
%LET HELP_BUT=%STR('images\help75.gif');
%LET HOME_BUT=%STR('images\home75.gif');
%LET BACK_BUT=%STR('images\back75.gif');
                               /** Keep count of HTML files created **/
%LET NUMBER_HTML_FILES=0;
%LET SUB HEAD=0;
                               /** Macro variable for sub-benfit heading **/
                               /** 1=headings, 0=no headings
/*********************
/**** Macro for putting notes at bottom of table *****/
%MACRO BOTTOM_NOTES(); /** Modified %if condition at the QTRNO level to minimize
duplicate codes **/
                               /** Deleted previously commented out per page bottom notes. JSO
02/09/07 **/
     PUT "";
  %IF &QTRNO NE 1 %THEN %DO;
     PUT " <font face='Arial,Helvetica,Swiss,Geneva' size='2'>Source:
Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and &SRFYR2.</font>"; ***MJS
03/24/04
  %END;
  %ELSE %DO;
    PUT "
             <font face='Arial,Helvetica,Swiss,Geneva' size='2'>Source:
&SRFYR2 Health Care Survey of DOD Beneficiaries</font>"; ***MJS 03/24/04 Changed hard-coded
year to
```

```
%END;
     PUT "
              <font face='Arial,Helvetica,Swiss,Geneva' size='2' color='#009933'><br>";
     PUT "
              <b>Indicates score significantly exceeds benchmark</font><b>&htmlsp.<br/>";
     PUT "
              </b><font face='Arial, Helvetica, Swiss, Geneva' size='2'
color='#cc0000'><i>Indicates score significantly falls short of benchmark</i></font><br>";
     PUT " <font face='Arial, Helvetica, Swiss, Geneva' size='2'>NA Indicates not
applicable</font><br>";
   /* MER 10/24/2009 Fix no longer needed */
  /*%if &var3 = 4 and &seppage = 2 %then %do;
             <font face='Arial,Helvetica,Swiss,Geneva' size='2'>* Indicates scores not
available for that quarter</font><br>";
  %end; */
     PUT "
              <font face='Arial, Helvetica, Swiss, Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
   /* MER 05/14/2010 Fix no longer needed */
   /*%if &var3 = 0 %then %do;
     PUT " <font face='Arial, Helvetica, Swiss, Geneva' size='2'># Indicates <a
href='..\html\help.htm#transition' &target.>change</a> to composite</font><br>";
  %end;
  %else %if &var3 = 1 or &var3 = 3 or (&var3 = 11 and &seppage = 1) %then %do;
              <font face='Arial,Helvetica,Swiss,Geneva' size='2'># Indicates <a</pre>
     PUT "
href='..\html\help.htm#transition' &target.>change</a> to questions</font><br>";
  %end; */
     PUT "
              <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
     PUT "";
%MEND BOTTOM_NOTES;
                                 /** Added BOTTOM_NOTES_XLS macro to substitute 3 separate
%MACRO BOTTOM_NOTES_XLS();
duplicate codes.
                                 /** Big difference between BOTTOM_NOTES macro is the special
fonts. JSO 02/15/07 **/
    %if &outxls.=1 %then %do;
       FILE XLSDATA;
        PUT; PUT;
        %if &var3.=0 %then %do;
          PUT "Source: &SRFYR2 Health Care Survey of DOD Beneficiaries";
        %end;
        %else %do;
          %IF &OTRNO NE 1 %THEN %DO;
             PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRFYR1 and
&SRFYR2";
           %END;
           %ELSE %DO;
             PUT "Source: &SRFYR2 Health Care Survey of DOD Beneficiaries";
        %end;
          PUT "Indicates score significantly exceeds benchmark";
          PUT "Indicates score significantly falls short of benchmark";
          PUT "NA Indicates not applicable";
        /* MER 10/24/2009 Fix no longer needed */
        /*%if &var3 = 4 and &seppage = 2 %then %do;
          PUT "* Indicates scores were not available that quarter";
        %end; */
        PUT "*** Indicates suppressed due to small sample size";
        /* MER 05/14/2010 Fix no longer needed */
        /*%if &var3 = 0 %then %do;
          PUT "# Indicates change to composite";
        %end;
        %else %if &var3 = 1 or &var3 = 3 or (&var3 = 11 and &seppage = 1) %then %do;
          PUT "# Indicates change to questions";
        %end;*/
     %end;
%MEND BOTTOM_NOTES_XLS;
/**********************
```

```
/**** Macro for adding in link row to trends data *****/
/**********************
/*** Macro variable with Javascript to go back ***/
%LET GOBACK=%STR(<script>document.write(&quote.<a href='javascript:history.go(-1)'</pre>
target='_parent'>&quote.);
document.write(&quote.<img src='images\\back75.gif' border='0' alt='Go to previous
page'>&quote.);document.write(&quote.</a>&quote.);</script>);
LIBNAME SRC1 '.' ACCESS=READONLY;
OPTIONS LS=210;
/**** Macro to create html pages
/****
                                                              ****/
             var1=major group
/****
                                                              ****/
             var2=region
/****
             var3=benefit
/***
             var4=t.rend
/****
                                                              ****/
         seppage=0/no separate pages for qtrly trends
/****
                 1/1st separate page
                                                              ****/
                 2/2nd separate page
/** RSG 08/07/03 - added var4 to add extra dimension of page numbers for
   sub benefit trend pages**/
DATA PRE SUBSET;
 SET SRC1.TOTAL_QP4;
 /* MER 4/30/11 - Set scores for Counselled To Quit = N/A for April and July, 2010 for trends
pages */
 /*
                 Also set Trend to N/A
 /*IF BENEFIT = "Healthy Behaviors" AND BENTYPE = "Counselled To Quit" AND
    TIMEPD IN ("April, 2010", "July, 2010", "Trend") THEN SCORE = .A;*/
 IF BENEFIT="Total" THEN DELETE; /*** MAB testing 2/11/2005 ***/
  /* MER 08/27/09 Temporary fix for Q3FY2009 */
 /*IF (BENEFIT="Customer Service" AND TIMEPD="Trend") THEN SCORE=.;*/
 IF SCORE>100 then SCORE=100;
                                                              ***MJS ADDED 2/14/2003 to
avoid scores > 100;
 IF (TIMEPD="Trend" and -.5<SCORE<0) THEN SCORE=ABS(SCORE);</pre>
                                                              ***DKB ADDED 8/13/2002 to
avoid negative zero values;
 IF TIMEPD="Trend" THEN TIMEPD="Est. Quarterly Rate of Change";
                                                              ***DKB ADDED 8/12/2002 to
rename Trend column;
 IF BENTYPE="Wait More Than 15 Minutes Past Appointment" THEN
                                                              /*MJS 5/7/04 Changed label*/
   BENTYPE="Wait In Doctor's Office";
 IF BENTYPE="Problems Getting Referral To Specialist" THEN
                                                              /*MJS 5/7/04 Changed label*/
   BENTYPE="Problems Getting To See Specialist";
 IF BENTYPE="Percent Normal Weight" THEN
   BENTYPE="Percent Not Obese";
                                                              /* RSG 09/20/2005 Changed
label*/
  /**RSG 01/2005 CREATE SERVICE FIELD TO ORDER REGION BY SERVICE AFFILIATION, ALSO
    CHANGE CONUS SERVICE AFFILIATION TO LOWER CASE*/
    IF MAJGRP = "Benchmark" THEN LINEUP=1;
    ELSE IF MAJGRP = "Prime Enrollees" THEN LINEUP=2;
    ELSE IF MAJGRP = "Enrollees with Military PCM" THEN LINEUP=3;
    ELSE IF MAJGRP = "Enrollees with Civilian PCM" THEN LINEUP=4; ***JSO 11/07/07 Added Civilian
PCM;
    ELSE IF MAJGRP = "Standard/Extra Users" THEN LINEUP=5;
    ELSE IF MAJGRP = "Purchased Care Users" THEN LINEUP=6;
                                                            ***JSO 07/28/08 Added
Purchased Care Users;
    ELSE IF MAJGRP = "Active Duty" THEN LINEUP=7;
    ELSE IF MAJGRP = "Active Duty Dependents" THEN LINEUP=8;
    ELSE IF MAJGRP = "Retirees and Dependents" THEN LINEUP=9;
    ELSE IF MAJGRP = "All Users" THEN LINEUP=10;
```

```
IF REGION = "Benchmark" THEN LINEUP2=1;
     ELSE IF UPCASE(REGION) = 'USA MHS' THEN DO;
       LINEUP2=2;
       REGION = 'US MHS';
       REGCAT = 'US MHS';
     ELSE IF UPCASE(REGION) = 'ARMY' THEN LINEUP2=3;
     ELSE IF UPCASE(REGION) = 'NAVY' THEN LINEUP2=4;
     ELSE IF UPCASE(REGION) = 'AIR FORCE' THEN LINEUP2=5;
     ELSE IF UPCASE(REGION) = 'OTHER' THEN LINEUP2=6;
     ELSE IF UPCASE(REGION) = 'JOINT SERVICE' THEN LINEUP2=7;
     ELSE IF UPCASE(REGION) = 'NORTH' THEN LINEUP2=8;
     ELSE IF UPCASE(REGION) = 'NORTH ARMY' THEN LINEUP2=9;
    ELSE IF UPCASE(REGION) = 'NORTH NAVY' THEN LINEUP2=10;
     ELSE IF UPCASE(REGION) = 'NORTH AIR FORCE' THEN LINEUP2=11;
     ELSE IF UPCASE(REGION) = 'NORTH OTHER' THEN LINEUP2=12;
     ELSE IF UPCASE(REGION) = 'NORTH JOINT SERVICE' THEN LINEUP2=13;
     ELSE IF UPCASE(REGION) = 'SOUTH' THEN LINEUP2=14;
     ELSE IF UPCASE(REGION) = 'SOUTH ARMY' THEN LINEUP2=15;
     ELSE IF UPCASE(REGION) = 'SOUTH NAVY' THEN LINEUP2=16;
    ELSE IF UPCASE(REGION) = 'SOUTH AIR FORCE' THEN LINEUP2=17;
     ELSE IF UPCASE(REGION) = 'SOUTH OTHER' THEN LINEUP2=18;
     ELSE IF UPCASE(REGION) = 'WEST' THEN LINEUP2=19;
     ELSE IF UPCASE(REGION) = 'WEST ARMY' THEN LINEUP2=20;
    ELSE IF UPCASE(REGION) = 'WEST NAVY' THEN LINEUP2=21;
     ELSE IF UPCASE(REGION) = 'WEST AIR FORCE' THEN LINEUP2=22;
     ELSE IF UPCASE(REGION) = 'WEST OTHER' THEN LINEUP2=23;
     ELSE IF UPCASE(REGION) = 'OVERSEAS' THEN LINEUP2=24;
     ELSE IF UPCASE(REGION) = 'OVERSEAS EUROPE' THEN LINEUP2=25;
     ELSE IF UPCASE(REGION) = 'OVERSEAS PACIFIC' THEN LINEUP2=26;
RIIN;
     ***MJS 07/03/03 Changed BENTYPE to TIMEPD;
PROC SORT;
BY LINEUP LINEUP2;
RIIN;
%MACRO MKHTML(var1,var2,var3,seppage,var4);
/*** Determine some macro variables ***/
%if &prefix=f %then %do;
  %let width1=640;
  %let width2=640;
 %let border=0;
%end;
%else %do;
  %let width1=90%;
  %let width2=85%;
 %let border=1;
%end;
%let number_html_files=%EVAL(1+&number_html_files.);
/** Load in data **/
DATA SUBSET;
  SET PRE_SUBSET;
 LENGTH FILEOUT1 $ 100;
                           /*MJS 02/11/04*/
 LENGTH FILEOUT2 $ 100;
 LENGTH FILEOUT3 $ 100;
  /*** VAR1 indicated major group ***/
  %if &var1.=0 %then %let major=%STR();
  %if &var1.=1 %then %let major=%STR(Prime Enrollees);
  %if &var1.=2 %then %let major=%STR(Enrollees with Military PCM);
  %if &var1.=3 %then %let major=%STR(Enrollees with Civilian PCM);
                                                                     ***JSO 10/31/07 Added
Civilian PCM;
```

```
%if &var1.=4 %then %let major=%STR(Standard/Extra Users);
                                                                   ***(var1.=3), and changed 3-
7 back to 4-8;
  %if &var1.=5 %then %let major=%STR(Purchased Care Users);
                                                                    ***JSO 07/28/08 Added
Purchased Care Users;
  %if &var1.=6 %then %let major=%STR(Active Duty);
  %if &var1.=7 %then %let major=%STR(Active Duty Dependents);
  %if &var1.=8 %then %let major=%STR(Retirees and Dependents);
  %if &var1.=9 %then %let major=%STR(All Users);
  %if &var1.=0 %then %do;
     /* RSG 02/2005 - CONUS WILL NOW BE PART OF REGION LIST SO COMMENT OUT NEXT SECTION*/
     /* %if &var2.^=99 %then %do;
       IF SUBSTR(REGION,1,3)="USA" THEN DELETE;
     %end;*/
    %let comma=%STR();
    %let grpmsg=%STR();
  %end;
  %else %do;
                          /*** Subset data by major group ***/
    IF MAJGRP="&major.";
     %let comma=%STR(,);
    %let grpmsg=%STR(Click below to view this table by other groups);
  %end;
   /*** Create macro variables to refer to Component or Trend pages ***/
  %if &seppage.=2 %then %do;
     %let q=q;
     %let unq=;
     %let click_alt=Click for Component data;
     %let click_image=component.gif;
   %end;
   %else %do;
     %let q=;
     %let unq=q;
     %let click_alt=Click for Trend data;
     %let click_image=trend.gif;
   %end;
  FILEOUT1=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q..htm");
                                                                               /** Main html **/
                                                                               /** Header html
  FILEOUT2=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.a.htm");
                                                                               /** Data html **/
  FILEOUT3=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.b.htm");
   /*** Added &var4 to all file names for additional sub-benefit trend pages
        08-07-2003 RSG ***/
      /*MJS 01/28/04 Added &outdir.\ to above filenames*/
    /*** Added 07-12-2001 MAB If creating Excel then don't create HTML ***/
   %if &outxls.=1 %then %do;
     %let fileout1= NUL;
     %let fileout2= NUL;
     %let fileout3= NUL;
    %end;
    %else %do;
     call symput('fileout1',FILEOUT1);
     call symput('fileout2',FILEOUT2);
     call symput('fileout3',FILEOUT3);
    %end;
  /*____*/
  /* 2000/11: begin xls code */
  /*----*/
 /*MJS 01/28/04 Added &outdir.\ to filename*/
 FILEOUTX=COMPRESS("&outdir.\p&var1.-&var2.-&var3.-&var4.&q..xls"); /* create run-
specific xls file */
                                                                   /* via global macro vars
 CALL SYMPUT('fileoutX',FILEOUTX);
```

```
%if &seppage. ne 2 %then %do;
    /* MER 05/14/2010 Fix no longer needed */
     /*%if &var3 = 0 or &var3 = 1 or &var3 = 3 or &var3 = 11 %then %do;
       TEMPLATE=COMPRESS("Templates\Template&var3._trans.xls");
    %end;
     %else %do;
       TEMPLATE=COMPRESS("Templates\Template&var3..xls");
    TEMPLATE=COMPRESS("Templates\Template&var3..xls");
  %end;
  /* MER 10/24/2009 Fix no longer needed */
  /*%else %if &var3 = 4 %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend2.xls");
  %end; */
  /* MER 05/14/2010 Fix no longer needed */
  /*%else %if &var3 = 1 or &var3 = 3 %then %do;
    TEMPLATE=COMPRESS("Templates\Template_trend_trans.xls");
  %end; */
  %else %do;
    TEMPLATE=COMPRESS("Templates\Template_trend.xls");
                                                                   /* identify which template
 CALL SYMPUT('template',TEMPLATE);
xls file */
  /*----*/
  /* 2000/11: end xls code */
  /*----*/
  /*** VAR3 dictates type of benefit heading ***/
  %if &var3=0 %then %do;
   %let headvar=BENEFIT;
  %end;
  %else %do;
                      /*MJS 07/30/03 Added else do - was %else %let headvar=BENTYPE;*/
   %if &seppage.=2 or &var3=6 or &var3=7 or &var3=8 or &var3=9 %then %let headvar=TIMEPD;
/*MJS 08/01/03 Added &var3 code*/
   %else %let headvar=BENTYPE;
  %end;
  /*** clean up headvar variable ***/
  /***IF BENTYPE="Trend" THEN BENTYPE="Trend<BR>% change";***/
  /*** Link to XLS file ***/
 HREFXLS=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..xls");
 call symput('hrefxls',HREFXLS);
/*** Subset data by region ***/
DATA SUBSET2;
 SET SUBSET;
                            /** 0 = All regions **/
  %if &var2.=0 %then %do;
                           /** Just do All Region table **/
    IF REGION=REGCAT;
     %let sub_regs=%STR(All Regions);
  %end;
  %else %if &var2.=1 %then %do;
    IF UPCASE(REGION)="US MHS"; /* MER 08/27/09 changed to US MHS */
     %let sub_regs=%STR(US MHS);
  %end;
  %else %if &var2.=2 %then %do;
    IF UPCASE(REGION) = "ARMY";
     %let sub_regs=%STR(ARMY);
  %else %if &var2.=3 %then %do;
    IF UPCASE(REGION) = "NAVY";
     %let sub_regs=%STR(NAVY);
  %end;
  %else %if &var2.=4 %then %do;
    IF UPCASE(REGION) = "AIR FORCE";
     %let sub_regs=%STR(AIR FORCE);
  end:
  %else %if &var2.=5 %then %do;
```

```
IF UPCASE(REGION) = "OTHER";
   %let sub_regs=%STR(OTHER);
%end;
%else %if &var2.=6 %then %do;
   IF UPCASE(REGION)="JOINT SERVICE";
   %let sub_regs=%STR(JOINT SERVICE);
%end:
%else %if &var2.=7 %then %do;
   IF UPCASE(REGION) = "NORTH";
   %let sub_regs=%STR(NORTH);
%end;
%else %if &var2.=8 %then %do;
   IF UPCASE(REGION) = "NORTH ARMY";
   %let sub_regs=%STR(North Army);
%else %if &var2.=9 %then %do;
   IF UPCASE(REGION) = "NORTH NAVY";
   %let sub_regs=%STR(North Navy);
%end;
%else %if &var2.=10 %then %do;
   IF UPCASE(REGION) = "NORTH AIR FORCE";
   %let sub_regs=%STR(North Air Force);
%end;
%else %if &var2.=11 %then %do;
  IF UPCASE(REGION) = "NORTH OTHER";
   %let sub_regs=%STR(North Other);
%end;
%else %if &var2.=12 %then %do;
   IF UPCASE(REGION) = "NORTH JOINT SERVICE";
   %let sub_regs=%STR(North Joint Service);
%end;
%else %if &var2.=13 %then %do;
   IF UPCASE(REGION) = "SOUTH";
   %let sub_regs=%STR(SOUTH);
%end;
%else %if &var2.=14 %then %do;
   IF UPCASE(REGION) = "SOUTH ARMY";
    %let sub_regs=%STR(South Army);
%end;
%else %if &var2.=15 %then %do;
   IF UPCASE(REGION) = "SOUTH NAVY";
   %let sub_regs=%STR(South Navy);
%else %if &var2.=16 %then %do;
   IF UPCASE(REGION) = "SOUTH AIR FORCE";
   %let sub_regs=%STR(South Air Force);
%end;
%else %if &var2.=17 %then %do;
   IF UPCASE (REGION) = "SOUTH OTHER";
   %let sub_regs=%STR(South Other);
%end;
%else %if &var2.=18 %then %do;
   IF UPCASE(REGION) = "WEST";
   %let sub_regs=%STR(WEST);
%end;
%else %if &var2.=19 %then %do;
   IF UPCASE(REGION) = "WEST ARMY";
   %let sub_regs=%STR(West Army);
%end;
%else %if &var2.=20 %then %do;
   IF UPCASE(REGION) = "WEST NAVY";
   %let sub_regs=%STR(West Navy);
%end;
%else %if &var2.=21 %then %do;
   IF UPCASE(REGION) = "WEST AIR FORCE";
   %let sub_regs=%STR(West Air Force);
%end;
%else %if &var2.=22 %then %do;
   IF UPCASE(REGION) = "WEST OTHER";
   %let sub_regs=%STR(West Other);
%else %if &var2.=23 %then %do;
   IF UPCASE(REGION) = "OVERSEAS";
```

```
%let sub_regs=%STR(OVERSEAS);
  %end;
  %else %if &var2.=24 %then %do;
    IF UPCASE(REGION) = "OVERSEAS EUROPE";
     %let sub_regs=%STR(Overseas Europe);
  %else %if &var2.=25 %then %do;
     IF UPCASE(REGION) = "OVERSEAS PACIFIC";
     %let sub_regs=%STR(Overseas Pacific);
RIIN;
/*** Subset data by Benefit ***/
DATA SUBSET3;
 SET SUBSET2;
  %if &var3.=0 %then %do; /** 0=All Benefits **/
     IF BENTYPE="Composite" and TIMEPD="&currentperiod."; ***MJS 07/03/03 Changed from IF
BENTYPE="&currentperiod.";
                                ***MJS 4/23/03 Changed 2 to 1;
  %else %if &var3.=1 %then %do;
    IF BENEFIT="Getting Needed Care";
     /*** # of columns for this benefit table ***/
     %let columns=%EVAL(3+&qtrs.); ***MER ADDED 3+ instead of 5+ 4/21/09;
  %end;
                                ***MJS 4/23/03 Changed 3 to 2;
  %else %if &var3.=2 %then %do;
     IF BENEFIT="Getting Care Quickly";
     %let columns=%EVAL(3+&qtrs.); ***MER ADDED 3+ instead of 5+ 4/21/09;
  %end;
  %else %if &var3.=3 %then %do; ***MER 4/21/09 Changed 4 to 3;
     IF BENEFIT="How Well Doctors Communicate";
     %let columns=%EVAL(5+&qtrs.);
                                 ***MER 4/21/09 Changed 5 to 4;
  %else %if &var3.=4 %then %do;
     IF BENEFIT="Customer Service";
     %let columns=%EVAL(3+&qtrs.); ***MER ADDED 3+ instead of 4+ 4/21/09;
  %end;
                                ***MER 4/21/09 Changed 6 to 5;
  %else %if &var3.=5 %then %do;
     IF BENEFIT="Claims Processing";
     %let columns=%EVAL(3+&qtrs.);
  %end:
  %else %if &var3.=6 %then %do;
                                ***MER 4/21/09 Changed 7 to 6;
    IF BENEFIT="Health Plan";
     %let columns=%EVAL(2+&qtrs.);
                                       ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
                                ***MER 4/21/09 Changed 8 to 7;
  %else %if &var3.=7 %then %do;
    IF BENEFIT="Health Care";
     %let columns=%EVAL(2+&qtrs.);
                                       ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
  %end;
  %else %if &var3.=8 %then %do; ***MER 4/21/09 Changed 9 to 8;
    IF BENEFIT="Personal Doctor";
                                       ***MJS 02/04/2003;
                                        ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
     %let columns=%EVAL(2+&qtrs.);
  %end;
  %else %if &var3.=9 %then %do; ***MER 4/21/09 Changed 10 to 9;
     IF BENEFIT="Specialty Care";
     %let columns=%EVAL(2+&qtrs.);
                                        ***DKB ADDED 2+ instead of 1+ for Trend 5/3/2002;
  %end;
  %else %if &var3.=10 %then %do; ***MER 4/21/09 Changed 11 to 10;
     IF BENEFIT="Preventive Care"; ***MJS 04/30/03 Changed from 5+ to 6+ because Cholesterol
Testing was added;
     %let columns=%EVAL(5+&qtrs.); ***DKB CHANGED FROM 6+ to 5+ because removed flu shot
5/7/02;
  %end;
  %else %if &var3.=11 %then %do; ***MER 4/21/09 Changed 12 to 11;
    IF BENEFIT="Healthy Behaviors";
     %let columns=%EVAL(4+&qtrs.);
  %end;
  /*** Set macro variable ***/
  %if &var3.=0 %then %do;
```

```
%let sub_ben=%STR(&currentperiod. Composite Scores);
     %let columns=12; ***MER 4/21/09 Changed from 13 to 12;
  %end;
  %else %do;
   call symput('sub_ben',BENEFIT);
  %end;
  /*** Determine number of columns for sub-benefits ***/
  /*** Equals cols - (x for qtrs - 1 for stub column) ***/
                                                    ***DKB CHANGED FROM -1 to -2 5/3/2002;
 %let subcols=%EVAL(&columns.-&qtrs.-2);
  /*** Determine number of columns less 1st (stub) column ***/
 %let columns_less1=%EVAL(&columns.-1);
RUN;
/*** Added 4-3-01 MAB ***/
DATA SUBSET4;
 SET SUBSET3;
 WIDTH_COL1=120; /** Set width of column 1 **/
 IF BENTYPE="Composite" THEN WIDTH3=90; ***DKB ADDED TREND and changed width3 from 120 to 90
4/30/2002***;
 ELSE WIDTH3=90;
                                       ***MJS 07/03/03 Changed from BENTYPE IN any period and
Est. Quarterly Rate of Change;
  /** Deal with some special cases **/
 IF BENEFIT="Preventive Care" THEN DO;
     IF BENTYPE="Composite" THEN WIDTH3=.;
                                           ***DKB ADDED TREND 4/30/2002***;
     ELSE WIDTH3=80;
                                           ***MJS 07/03/03 Changed from BENTYPE IN any period
and Est. Quarterly Rate of Change;
 %if &prefix.=p %then %do;
   WIDTH3=.;
 %end;
 %else %if &var3.=0 %then %do;
     WIDTH_COL1=.;
    WIDTH3=40;*/
/* MER 05/02/09 new values for V4 frames */
    WIDTH_COL1=80;
    /* MER 05/02/09 */
    %if &var2.=0 %then %do;
      WIDTH3=44;
    %end;
    %else %do;
       WIDTH3=43;
    %end;
 %end;
       /*** Added 5-7-2001 mab ***/
RIIN;
/**** Put out Header rows of table
/***********************
DATA HTML;
 SET SUBSET4;
 LENGTH HREFBACK $100; /*MJS 02/11/04*/
 IF REGION IN("Benchmark") OR MAJGRP IN("Benchmark");
  /** Determine where back button should link to **/
  %if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.8-0-0-0.htm"); ***MJS 05/06/03 Changed 8-0-0 to 7-0-0;
                                              ***JSO 11/12/07 Changed 7-0-0 to 8-0-0;
  %end;
```

```
%else %do;
    HREFBACK=COMPRESS("&prefix.&var1.-0-0.htm");
  /*** Create macro variable date with today's date ***/
 DATETIME=DATETIME();
 CALL SYMPUT ('DATETIME', left(put(datetime, datetime20.)));
 DROP DATETIME;
RIIN;
/*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
%if &prefix=f %then %do;
    /*** Make frameset page split frames smaller on all ratings pages ***/
   %if &var3.=0 %then %do;
        %let splitpixel=228;
    %end;
    %else %if &var3.=1 OR &var3.=2 %then %do; ***MJS 4/23/03 Changed 2&3 to 1&2;
         %let splitpixel=211;
    %else %if &var3.=5 OR &var3.=11 %then %do; ***MER 4/21/09 Changed 6&12 to 5&11;
        %let splitpixel=181;
    %else %if &var3.=3 %then %do; ***MER 4/21/09 Changed 4 to 3;
         %let splitpixel=196;
    %end;
                                     ***MER 4/21/09 Changed 5 to 4;
    %else %if &var3.=4 %then %do;
        %let splitpixel=221;
    %end;
    %else %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
         %let splitpixel=158; ***MER 4/21/09 Changed 7/8/9/10 to 6/7/8/9;
    %end;
    %else %if &var3.=10 %then %do; ***MER 4/21/09 Changed 11 to 10;
        %let splitpixel=192;
    %end;
    %if &SEPPAGE.=2 %then %do;
        %let splitpixel=157;
   /*** Create frameset page HTML page ***/
   DATA _NULL_;
    FILE "&FILEOUT1.";
     PUT "<html><head><title>";
     PUT "&major. &comma. &sub_ben., &sub_regs.";
     PUT "</title></head>";
     PUT "<frameset rows='&splitpixel.,*'>";
      %if &seppage.=2 %then %do;
               <frame src='f&var1.-&var2.-&var3.-&var4.qa.htm' MARGINHEIGHT='0'</pre>
MARGINWIDTH='0'>";
        PUT " <frame src='f&var1.-&var2.-&var3.-&var4.qb.htm' MARGINHEIGHT='0'
MARGINWIDTH='0'>";
      %end;
      %else %do;
       PUT " <frame src='f&var1.-&var2.-&var3.-&var4.a.htm' MARGINHEIGHT='0'
MARGINWIDTH='0'>";
      PUT " <frame src='f&var1.-&var2.-&var3.-&var4.b.htm' MARGINHEIGHT='0'
MARGINWIDTH='0'>";
      %end;
    PUT "</frameset></html>";
   /*** Since done making frameset page then assign fileout1 = frame 1 ***/
   %let fileout1=&fileout2.;
   %if &seppage.=1 %then %do;
      %let fileout1=&fileout2.;
    %end;
```

```
%else %if &seppage.=2 %then %do;
      %let fileout1=&fileout2.;
    %end;
%end;
/*** Initialize HTML page ***/
DATA _NULL_;
 FILE "&FILEOUT1.";
 PUT "<! Created &datetime.>";
  PUT "<html><head><title>";
 PUT "&major. &comma. &sub_ben., &sub_regs.";
  PUT "</title></head>";
 PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";
  /*** link to printer friendly version moved, 10/25/2001 C.Rankin ***/
RUN;
/*----*/
/* 2000/11: begin xls code */
/*----*/
%if &outxls.=1 %then %do;
  options noxsync noxwait mprint;
  /* Build macro variable for PUT statements used to */
  /* open template and save to run-specific worksheet */
  %LET stmt = ;
  %LET stmt2 = ;
  DATA _NULL_;
    single = "'";
    double = '"';
     length stmt $300.;
     length stmt2 $300.;
     stmt = "PUT
"||single||"[open("||double||"L:\&CURRQTR.\Programs\LoadWeb\&template."||double||")]"||single;
     stmt2 = "PUT
"||single||"[save.as("||double||"L:\&CURRQTR.\Programs\LoadWeb\&fileoutX."||double||")]"||single;
     call symput('stmt',left(trim(stmt)));
    call symput('stmt2',left(trim(stmt2)));
  RUN;
  /* open Excel */
  FILENAME SAS2XL DDE 'excel|system';
  DATA _NULL_;
     length fid rc start stop time 8;
     fid=fopen('SAS2XL','s');
     if (fid le 0) then do;
       rc=system('start excel');
       start=datetime();
       stop=start+100;
       do while (fid le 0);
          fid=fopen('SAS2XL','s');
          time=datetime();
          if (time ge stop) then fid=1;
       end;
     end;
    rc=fclose(fid);
  RIIN;
  /* open xls template and save as run-specific worksheet */
  DATA _NULL_;
    FILE SAS2XL;
    &stmt;
    &stmt2;
 FILENAME XLSTITLE DDE 'excel|Sheet1!R1C1:R2C20' NOTAB;
                                                        /* xls rows 1 & 2 (titles)
```

```
FILENAME XLSDATA DDE 'excel|Sheet1!R6C1:R100C20' NOTAB; /* xls rows 6+ (body of table)
* /
%end;
/* 2000/11: end xls code */
/*** If ALL benefits (VAR3=0) then do special column headers ***/
%if &var3.=0 %then %do;
DATA _NULL_;
 SET HTML END=EOF;
 *LENGTH HREF $ 250; /*MJS 01/29/04 Commented out statement*/
 IF _N_=1 THEN DO;
      FILE "&FILEOUT1." MOD;
                            /* 2000/11: moved file stmt inside if stmt */
       /*** put table title ***/
       </font></center></h2>"**/
       /** MF Changes ROW 1 **/
       PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
colspan=12 width='&width1.'>";
       PUT "";
       PUT "
             <img border='0' height='25'</pre>
width='242' src=&logo.>";
       PUT " ";
       PUT "
                <div align='right'>";
       PUT "
                   <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
alt='Return to Main Page'></a>&htmlsp. %htmlsp.";
       /*** 4-17 MAB added JS code to go back ***/
       PUT "&goback.";
       PUT "
                  <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
       PUT " &htmlsp. %htmlsp.";
       PUT "
                  <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
       PUT " ";
       PUT "";
       /** MF Changes ROW 2 **/
       /** Modified 2-2 MAB to better align title **/
       PUT "";
       PUT "
               ";
       PUT "
                        <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs.<br>";
       PUT "
                        &sub_ben.</b></font>";
       PUT "
                ";
       PUT "";
       /*** Print out 3rd row ***/
       /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
       /***here***/
       %if &prefix=f %then %do;
           PUT "";
           /**RSG~02/2005 add in a dummy gif to align titles and comment out extra cell**/
           /**PUT "&htmlsp.";**/
           PUT "<IMG SRC='&imgdir.\dummy.gif' ALT=' ' BORDER=0>";
           PUT "<IMG SRC='&imgdir.\eoa.gif'ALT='Ease of Access'
BORDER=0>";
           PUT "<IMG SRC='&imgdir.\com_cus_ser.gif' ALT='Communication
and Customer Service' BORDER=0>";
```

```
PUT "<IMG SRC='&imgdir.\ratings0.gif' ALT='Ratings'
BORDER=0>";
          PUT "<IMG SRC='&imgdir.\prevention.gif' ALT='Prevention'
BORDER=0>";
          PUT "<IMG SRC='&imgdir.\healthy.gif' ALT='Healthy Behaviors'
BORDER=0>";
          PUT "";
          PUT "";
       %end;
       %else %do;
          PUT "";
          PUT "&htmlsp.";
          /*** MAB rearranged 2/11/2005 ***/
          PUT "<font face='&fontface.'
size='2'><b>Ease of Access</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Communication and Customer Service</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Ratings</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Prevention</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Behaviors</b></font>";
          PUT "";
          PUT "";
       %end;
       /*** Print out 1st column of 4th row ***/
       /*** ÛÛ FRAMES SECTION ÛÛ ***/
      %if &prefix=f %then %do;
         *PUT "&htmlsp.";
          /* MER 05/02/09 trying new values for V4 frames */
         PUT "&htmlsp.";
         /**RSG 02/2005 Added in dummy gif to align title**/
          PUT "<IMG SRC='&imgdir.\dummy.gif'ALT=' '
BORDER=0>";*/
      %end;
       %else %do;
         PUT "<font face='&fontface.'>&htmlsp.</font>";
       /*** MAB 2/11/2005 ***/
      bennum=1; /** index to all 11 benefits **/
       /*____*/
       /* 2000/11: begin xls code */
       /*----*/
       %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        PUT "&major. &comma. &sub_regs.";
        PUT "%cmpres('&sub_ben.')";
      %end;
       /* 2000/11: begin xls code */
       /*----*/
 END;
  FILE "&FILEOUT1." MOD ;
                                /* 2000/11: refer back to htm file */
  /*** Put Benefits across columns (Continuation of 4th row) ***/
  HREF=COMPRESS("..\html\&prefix.&var1.-&var2.-"||bennum||"-&var4..htm");
  /** If TOTAL benefit then don't have HREF **/
  /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
  %if &prefix=f %then %do;
   /* MER 05/14/2010 Fix no longer needed */
```

```
/*IF BENNUM=1 OR BENNUM=2 OR BENNUM=3 OR BENNUM=4 OR BENNUM=11 THEN DO;
      IMAGE=COMPRESS("&imgdir.\image0_"||bennum||"_trans.gif");
    END;
    ELSE DO;
      IMAGE=COMPRESS("&imgdir.\image0_"||bennum||".gif");
    IMAGE=COMPRESS("&imgdir.\image0_"||bennum||".gif");
    IF BENNUM=0 THEN PUT "<IMG SRC='&imqdir.\image0_0.gif'
alt='Total' BORDER=0>";
    ELSE PUT "<a href=""" HREF +(-1) """ &target.><IMG SRC='"
IMAGE "' alt='" BENEFIT "' BORDER=0></a>";
  %end;
  %else %do;
    IF BENNUM=0 THEN PUT "<font
face='&fontface.'size='1'>" &HEADVAR. "</font>";
    /* MER 05/14/2010 Fix no longer needed */
    /*ELSE IF BENNUM<5 OR BENNUM=11 THEN PUT "<td width='8%' align='center'
valign='bottom'><font face='&fontface.'size='1'><a href=""" HREF +(-1) """ &target.>" &HEADVAR.
+(-1) "<b>#</b></a></font><
    ELSE PUT "<font face='&fontface.'size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
  %end;
 bennum+1;
 IF EOF THEN DO;
   DIIT "";
   /*** 2-2 MAB removed scale row ***/
 END;
RUN;
%end;
/*** If Sub-benefit (VAR3^=0) then do differently ***/
/*** If not separate page (SEPPAGE=0) for quarterly info then do as before ***/
%else %if &seppage.=0 OR &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
                               ***MER 4/21/09 Changed 7/8/9/10 to 6/7/8/9;
DATA _NULL_;
 SET HTML END=EOF;
 *LENGTH HREF $ 250;
                   /*MJS 01/29/04 Commented out statement*/
 COLUMNS=&columns.;
 SPAN1=ROUND(COLUMNS/2,1);
 SPAN2=COLUMNS-SPAN1;
 IF _N_=1 THEN DO;
      FILE "&FILEOUT1." MOD; /* 2000/11: moved inside if stmt */
       /** MF Changes ROW 1 **/
       PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
       PUT "";
       PUT "
              <img border='0'
height='25' width='242' src=&logo.>";
       PUT " <td colspan=""" SPAN2 +(-1) """ align='right' valign='bottom'
bqcolor='#999999'>";
       PUT "
                    <div align='right'>";
       PUT "
                    <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
alt='Return to Main Page'></a>&htmlsp. %htmlsp.";
       /*** 4-17 MAB added JS code to go back ***/
       PUT "&goback.";
                    <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
       PIIT "
border='0' alt='Return to Top Level'></a></noscript>";
```

```
יי ידוזק
                 &htmlsp. &htmlsp.";
      PUT "
                  <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
      PUT " ";
      PUT "";
       /** MF Changes ROW 2 **/
       /** Modified 2-2 MAB to better align title **/
      PIIT "";
      PUT "
                 <td valign='center' align='center' colspan=""" COLUMNS +(-1) """
bgcolor='#D8D8D8'>";
      PUT "
                       <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";
       /*** If ratings then don't display reference period ***/
      %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
                   ***MER 4/21/09 Changed 7/8/9/10 to 6/7/8/9;
           PUT "
                            &sub ben.</b></font>";
      %end;
       %else %do;
           PUT "
                           &sub_ben.<BR>&currentperiod.</b></font>";
       %end;
      PUT "
                ";
      PUT "";
       /*** Sub_head macro variable added C.Rankin 10/25/2001 ***/
       %if &sub_head.=1 %then %do;
         /** 3rd Row ***/
         /** ÛÛ FRAMES SECTION ÛÛ ***/
         %if &prefix=f %then %do;
             /*** If sub-benefits then output sub-benefit columns ***/
             %if &subcols.^=0 %then %do;
              IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
              PUT "<IMG SRC=" IMAGE "
alt='" BENEFIT "' BORDER=0>";
              PUT "<IMG
SRC='&imgdir.\composite.gif' ALT='Composite' BORDER=0>";
             %else %do;
              PUT "<IMG
SRC='&imgdir.\border_rating.gif' ALT='Ratings' BORDER=0>";
         %end;
         %else %do;
             PUT "&htmlsp."; /** Column 1 **/
             /*** If sub-benefits then output sub-benefit columns ***/
             %if &subcols.^=0 %then %do;
              PUT "<font
face='&fontface.'><b>&sub_ben.<br/>components</b></font>";
              PUT "<font
face='&fontface.'><b>Composite</b></font>";
             %end;
             %else %do;
              PUT "<font
face='&fontface.'><b>Ratings</b></font>";
            %end;
         %end;
      %end;
       /*** 4th Row start (column 1) ***/
       /*** ÛÛ FRAMES SECTION ÛÛ ***/
       %if &prefix=f %then %do;
        PUT "<font face='&fontface.'>";
        PUT "<img src='&imgdir.\blank_120_50.gif'
border=0>";
      %end;
       %else %do;
```

```
PUT "<font face='&fontface.'>";
         PUT "&htmlsp.";
       %end;
       /*____*/
       /* 2000/11: begin xls code */
       /*----*/
       %if &outxls.=1 %then %do;
        FILE XLSTITLE;
         PUT "&major. &comma. &sub_regs.";
        PUT "%cmpres('&sub_ben.')";
       %end;
       /*----*/
       /* 2000/11: begin xls code */
       /*----*/
 END;
 FILE "&FILEOUT1." MOD ;
                                   /* 2000/11: refer back to htm file */
 /*** Print out column headings ***/
     HREF=COMPRESS("..\html\help.htm#q&var3.");
    HREF1=COMPRESS("..\html\help.htm#trend"); /*7-29-2002 DKB ADDED LINK FOR TREND SECTION OF
HELP FILE*/
 /*** 4th Row (columns 2+) ***/
 /*** If quarter column then HREF link is different ****/
 /*** ÛÛ FRAMES SECTION ÛÛ ***/
 %if &prefix=f %then %do;
    IF _N_>&subcols. THEN IMAGE=COMPRESS("&imgdir.\col"||_N_-&subcols.||".gif");
*DKB CHANGED IMAGE NAME FROM QTR TO COL;
    ELSE IMAGE=COMPRESS("&imqdir.\image&var3._"||_N_||".gif");
    /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE */ ***MJS 07/03/03 Changed
BENTYPE to TIMEPD;
   IF TIMEPD NE "Est. Quarterly Rate of Change" THEN PUT "<a
href=""" HREF +(-1) """ &target.><IMG SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a>";
   ELSE PUT "<a href=""" HREF1 +(-1) """ &target.><IMG
SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a>";
 %end:
 %else %do;
   /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE */ ***MJS 07/03/03 Changed
BENTYPE to TIMEPD;
   IF TIMEPD NE "Est. Quarterly Rate of Change" THEN PUT "<td width='10%' align='center'
valign='bottom'><font face='&fontface.' size='1'><a href=""" HREF +(-1) """ &target.>" &HEADVAR.
"</a></font><
   ELSE PUT "<font face='&fontface.' size='1'><a
href=""" HREF1 +(-1) """ &target.>" &HEADVAR. "</a></font>";
 %end;
 IF EOF THEN DO;
   PUT "</font>";
   /*** 2-2 MAB removed scale row ***/
RIIN;
/*** Added MAB 11-20-2000 ***/
/*** If Sub-benefit then do differently ***/
/*** If separate page (SEPPAGE=1) then create 1st of 2 HTML files ***/
/*** 1 for data without qtrly info and 1 for just qtrly info ***/
%else %if &seppage.=1 %then %do;
/*** 8-7-2003 Mark Brinkley ***/
DATA HTML2;
 SET HTML;
```

```
IF TIMEPD="&currentperiod.";
RUN;
/*** Remove qtrs from column counts ***/
%let columns=%EVAL(&columns.-&qtrs.);
/*** Do sub-benefit page without any qtrly info ***/
DATA _NULL_;
 SET HTML2 END=EOF;
  /*** Since spliting up table need to delete some records ***/
  /*** Modified 2-2 MAB to deal with new period values **/
 IF BENTYPE="Composite" THEN DELETE; ***DKB ADDED TREND 4/30/2002***;
                                  ***MJS 07/03/03 Changed from BENTYPE IN any period and Est.
Ouarterly Rate of Change;
 FILE "&FILEOUT1." MOD ;
 COLUMNS=&columns.;
 SPAN2=ROUND(COLUMNS/2.1);
 SPAN1=COLUMNS-SPAN2;
 IF _N_=1 THEN DO;
       FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
        /** MF Changes ROW 1 **/
        PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
        PUT "";
        PUT " <img border='0'
height='25' width='242' src=&logo.>";
       PUT " <td colspan=""" SPAN2 +(-1) """ align='right' valign='bottom'
bgcolor='#999999'>";
        PUT "
                      <div align='right'>";
        /** RSG - 09/02/03 Second set of trend pages need to refer to var4=0 pages **/
        PUT "
                     <a href='..\html\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img</pre>
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
        PUT "
                    <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
alt='Return to Main Page'></a>&htmlsp. ";
                /*** 4-17 MAB added JS code to go back ***/
        PUT "&goback.";
        PUT "
                     <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
        PUT "
                     &htmlsp. ";
        PUT "
                     <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
        PUT " ";
        PUT "";
        /** MF Changes ROW 2 **/
        /** Modified 2-2 MAB to better align title **/
        PUT "";
        PUT "
                    bgcolor='#D8D8D8'>";
       " דווק
                           <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";
        PUT "
                            &sub ben. <BR > & current period. </b> </font>";
        PUT "
                   ";
        PUT "";
        /*** Sub_head macro variable added C.Rankin 10/25/2001 ***/
        %if &sub_head.=1 %then %do;
```

```
/*** 3rd Row ***/
           /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
           %if &prefix=f %then %do;
              PUT "&htmlsp."; /** Column 1 **/
              IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
              PUT "<IMG SRC=" IMAGE "
alt='" BENEFIT "' BORDER=0>";
           %end;
           %else %do;
              PUT "&htmlsp."; /** Column 1 **/
              PUT "<font
face='&fontface.'><b>&sub_ben.<br/>br>components</b></font>";
           %end;
        %end;
        /*** 4th Row start (column 1) ***/
        /*** ÛÛ FRAMES SECTION ÛÛ ***/
        %if &prefix=f %then %do;
          PUT "<font face='&fontface.'>";
          PUT "<img src='&imgdir.\blank_130_50.gif'
border=0>";
        %end;
        %else %do;
          PUT "<font face='&fontface.'>";
          PUT "&htmlsp.";
        %end;
 qnum=1; /**RSG 08/07/03 Added as counter to use to for link to the trend pages**/
        /* 2000/11: begin xls code */
        /*----*/
        %if &outxls.=1 %then %do;
         FILE XLSTITLE;
          PUT "&major. &comma. &sub_regs.";
          PUT "%cmpres('&sub_ben.')";
        %end;
        /*----*/
        /* 2000/11: begin xls code */
        /*----*/
 END;
 FILE "&FILEOUT1." MOD ;
                                      /* 2000/11: refer back to htm file */
 /*** Print out column headings ***/
  /*HREF=COMPRESS("help.htm#g&var3.");
                                     */
 HREF=COMPRESS("..\html\&prefix.&var1.-&var2.-&var3.-"||qnum||"&unq..htm");
   *** RSG 08/07/03 Use gnum counter to refer to subbenefit trend pages;
*************************
  /*** 4th Row (columns 2+) ***/
  /*** If quarter column then HREF link is different ****/
  /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
  %if &prefix=f %then %do;
    /* MER 05/14/2010 Fix no longer needed */
    /*%if &var3 = 1 or &var3 = 3 %then %do;
   \label{local_image_var3} \begin{tabular}{ll} $\tt IMAGE=COMPRESS("\&imgdir.\image\&var3.\_" | |\_N\_| | "\_trans.gif"); \\ \end{tabular}
    %else %if &var3 = 11 %then %do;
       ELSE IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
    %end;
    %else %do;
    \label{local_image} \begin{tabular}{ll} $\tt IMAGE=COMPRESS("\&imgdir.\\image\&var3.\_" | |\_N\_| | ".gif"); \\ \end{tabular}
    \label{local_image} \begin{subarra}{ll} $IMAGE=COMPRESS("\&imgdir.\label{local_image}" | |_N_| | | ".gif"); \\ \end{subarray}
    PUT "<a href=""" HREF +(-1) """ &target.><IMG SRC='"
IMAGE "' alt='" BENTYPE "' BORDER=0></a>";
 %end;
  %else %do;
```

```
/* MER 05/14/2010 Fix no longer needed */
    /*%if &var3 = 1 or &var3 = 3 %then %do;
      PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "<b>#</b></a></font>";
    %end;
    %else %if &var3 = 11 %then %do;
      IF _N_ < 3 THEN PUT "<font
face='&fontface.' size='1'><a href=""" HREF +(-1) """ &target.>" &HEADVAR.
"<b>#</b></a></font>";
      ELSE PUT "<font face='&fontface.'
size='1'><a href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
    %end;
    %else %do;
     PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
    %end; */
    PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
 %end;
 qnum+1; *** RSG 08/07/03 Added to increase the counter;
 IF EOF THEN DO;
  PUT "</font>";
/*** 2-2 MAB removed scale row ***/
 EMD:
RUN;
%end;
/*** If separate page (SEPPAGE=2) then create 2nd of 2 HTML files ***/
/*** 1 for data without gtrly info and 1 for just gtrly info ***/
%else %if &seppage.=2 %then %do;
/*** Keep only qtrs in column counts ***/
/**DKB CHANGED FROM +1 to +3 on 4/29/2002 ***/
%let columns=%EVAL(&qtrs.+2); /** MAB changed to 2 6-19-2002 **/
/*** Then do sub-benefit page with just qtrly info ***/
DATA JUSTOTR;
 SET HTML;
 /*** Since spliting up table need to delete some records ***/
 /*** Modified 2-2 MAB to deal with new period values **/
 %if &var4. = 0 %then %do; **RSG ADDED TREND FOR BENTYPES on 8/7/2003 - select
                              records appropriate for bentype;
      IF BENTYPE="Composite";
 %end;
 %else %if &var4. ne 0 and BENTYPE ne "Composite" %then %do;
      %if &var3. = 1 %then %do;
          %if &var4. = 1 %then %do;
             IF BENTYPE = "Getting to See a Specialist";
          %end;
          %else %if &var4. = 2 %then %do;
            IF BENTYPE = "Getting Treatment";
      %else %if &var3. = 2 %then %do;
          %if &var4. = 1 %then %do;
             IF BENTYPE = "Wait for Routine Visit";
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Wait for Urgent Care";
          %end;
      %end;
      %else %if &var3. = 3 %then %do;
          %if &var4. = 1 %then %do;
             IF BENTYPE = "Listens Carefully";
```

```
%else %if &var4. = 2 %then %do;
               IF BENTYPE = "Explains so You Can Understand";
            %end;
            %else %if &var4. = 3 %then %do;
               IF BENTYPE = "Shows Respect";
            %else %if &var4. = 4 %then %do;
               IF BENTYPE = "Spends Time with You";
            %end;
        %end;
        %else %if &var3. = 4 %then %do;
            %if &var4. = 1 %then %do;
               IF BENTYPE = "Getting Information";
            %end;
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Courteous Customer Service";
            %end;
        %end;
        %else %if &var3. = 5 %then %do;
            %if &var4. = 1 %then %do;
               IF BENTYPE = "Claims Handled in a Reasonable Time";
            %end;
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Claims Handled Correctly";
            %end;
        %end;
        %else %if &var3. = 10 %then %do;
            %if &var4. = 1 %then %do;
               IF BENTYPE = "Mammography";
            %end;
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Pap Smear";
            %end;
            %else %if &var4. = 3 %then %do;
               IF BENTYPE = "Hypertension";
            %end;
            %else %if &var4. = 4 %then %do;
               IF BENTYPE = "Prenatal Care";
        %else %if &var3. = 11 %then %do; /*** MAB Added 2/11/2005 ***/
            %if &var4. = 1 %then %do;
               IF BENTYPE = "Non-Smoking Rate";
            %end;
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Counselled To Quit";
            %end;
                        %else %if &var4. = 3 %then %do;
                                IF BENTYPE = "Percent Not Obese";
                        %end;
        call symput('sub2_ben',BENTYPE); **create macro var to use in sub-benefit
                                          trend pages (below) - RSG 08/07/03;
  %end;
                           ***MJS 07/03/03 Changed from BENTYPE IN any period and Est. Quarterly
RIIN;
Rate of Change;
DATA _NULL_;
 SET JUSTQTR END=EOF;
  *LENGTH HREF $ 250; /*MJS 01/29/04 Commented out statement*/
 FILE "&FILEOUT1." MOD ;
 COLUMNS=&columns.;
 SPAN2=ROUND(COLUMNS/2,1);
 SPAN1=COLUMNS-SPAN2;
 IF _N_=1 THEN DO;
        FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
```

%end;

```
/** MF Changes ROW 1 **/
       PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
       PUT "";
       PUT " <img border='0'
height='25' width='242' src=&logo.>";
       PUT " <td colspan=""" SPAN2 +(-1) """ align='right' valign='bottom'
bgcolor='#999999'>";
       PUT "
                    <div align='right'>";
       PUT "
                    <a href='..\html\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img</pre>
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
                    <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
       PIIT "
alt='Return to Main Page'></a>&htmlsp. %htmlsp.";
       /*** 4-17 MAB added JS code to go back ***/
       PUT "&goback.";
       PUT "
                    <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
       יי ידוום
                    &htmlsp.";
       PUT "
                    <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
       PUT " ";
       PUT "";
       /** MF Changes ROW 2 **/
       /** Modified 2-2 MAB to better align title **/
       PUT "";
       PUT "
                  bgcolor='#D8D8D8'>";
       PUT "
                         <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";
       /*** Since trend data don't display reference period ***/
                          &sub_ben.</b></font><br>";
       /*** For trend data for each benefit type, display benefit type - RSG 08/07/03***/
       %if &var4. ne 0 %then %do;
                         <font face='&fontface.' color='#3333cc' size='4'><b>";
       PUT "
       PUT "
                          &sub2_ben.</b></font>";
       %end;
       PUT "
                  ";
       PUT "";
       /*** 3rd Row ***/
       /*** ÛÛ FRAMES SECTION ÛÛ ***/
       /**PUT ""**/
       /*** 4th Row start (column 1) ***/
       /*** ÛÛ FRAMES SECTION ÛÛ ***/
       %if &prefix=f %then %do;
         PUT "<font face='&fontface.'>";
         PUT "<img src='&imgdir.\blank_130_50.gif'
border=0>";
       %end;
       %else %do;
         PUT "<font face='&fontface.'>";
         PUT "&htmlsp.";
       %end;
       /* 2000/11: begin xls code */
        /*----*/
       %if &outxls.=1 %then %do;
         FILE XLSTITLE;
         PUT "&major. &comma. &sub_regs.";
         %if &var4. = 0 %then %do;
          PUT "%cmpres('&sub_ben.')";
```

```
%end;
          %else %do;
           PUT "%CMPRES('&sub_ben. &comma. &sub2_ben.')";
          %end;
        %end;
         /* 2000/11: begin xls code */
 END;
 FILE "&FILEOUT1." MOD ;
                                         /* 2000/11: refer back to htm file */
  /*** Print out column headings ***/
     LENGTH HREFf1 $250;
     LENGTH HREFf2 $250;
     LENGTH HREFf3 $250;
     LENGTH HREFf4 $250;
     LENGTH HREFp1 $250;
     LENGTH HREFp2 $250;
     LENGTH HREFp3 $250;
     LENGTH HREFp4 $250;
     LENGTH HREF5 $250;
      ****7-29-2002 DKB ADDED LINKS TO COMPONENT PAGES OF PREVIOUS QUARTERS FROM TREND PAGE****;
      ***FRAMES***;
      HREFf1=COMPRESS("..\Period1\f&var1.-&var2.-&var3.-0.htm");
      HREFf2=COMPRESS("..\Period2\f&var1.-&var2.-&var3.-0.htm");
      HREFf3=COMPRESS("..\Period3\f&var1.-&var2.-&var3.-0.htm");
      HREFf4=COMPRESS("f&var1.-&var2.-&var3.-0.htm");
       ***NO FRAMES***;
      \label{lem:hrefp1=COMPRESS("..\Period1\p&var1.-&var2.-&var3.-0.htm");} \\
      HREFp2=COMPRESS("..\Period2\p&var1.-&var2.-&var3.-0.htm");
      HREFp3=COMPRESS("..\Period3\p&var1.-&var2.-&var3.-0.htm");
      HREFp4=COMPRESS("p&var1.-&var2.-&var3.-0.htm");
       ****HELP FILE FOR TREND COLUMN***;
      HREF5=COMPRESS("..\html\help.htm#trend"); /*7-29-2002 DKB ADDED LINK FOR TREND SECTION
OF HELP FILE*/
    /* MER 05/09/2009 Temporary fix for V4 transition
         No Customer Service composite for April and July, 2008 */
       /* MER 08/06/2009 Modified for Q3FY2009 to handle July, 2008 only */
       /* MER 10/24/2009 Fix no longer needed */
       /*%if &var3.=4 %then %do;
         HREFf1=HREF5;
         HREFf2=HREF5;
         HREFp1=HREF5;
         HREFp2=HREF5;
      %end;*/
  /*** 4th Row (columns 2+) ***/
  /*** If quarter column then HREF link is different ****/
  /*** \hat{\text{U}}\hat{\text{U}} FRAMES SECTION \hat{\text{U}}\hat{\text{U}} ***/
       *LENGTH HREF $250;
  %if &prefix=f %then %do;
    /* MER 10/24/2009 Fix no longer needed */
    /*%if &var3.=4 and &seppage.=2 %then %do;
      IF TIMEPD = "April, 2008" OR TIMEPD = "July, 2008" THEN DO;
         \label{eq:image} \begin{tabular}{l} $\tt IMAGE=COMPRESS("\&imgdir.\col"||_N_|||"_R.gif"); \\ \end{tabular}
      END;
      ELSE DO;
         IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
```

```
%end;*/
   /* MER 05/14/2010 Fix no longer needed */
   /*%if &var3.=1 or &var3.=3 %then %do;
      IF TIMEPD = "Est. Quarterly Rate of Change" THEN DO;
        IMAGE=COMPRESS("&imgdir.\col"||_N_||"_trans.gif");
      ELSE DO;
        IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
      END;
   %end;
   %else %do;
      IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif"); *DKB CHANGED IMAGE NAME FROM QTR TO COL;
   %end; */
   {\tt IMAGE=COMPRESS("\&imgdir.\col"||\_N\_||".gif"); \ \ *DKB\ CHANGED\ IMAGE\ NAME\ FROM\ QTR\ TO\ COL; }
   IF _N_=1 THEN HREF=HREFf1;
   ELSE IF _N_=2 THEN HREF=HREFf2;
ELSE IF _N_=3 THEN HREF=HREFf3;
   ELSE IF _N_=4 THEN HREF=HREFf4;
   ELSE IF _N_=5 THEN HREF=HREF5;
     if timepd ne "Est. Quarterly Rate of Change*" then
      PUT "<a href=""" HREF +(-1) """ &target.><IMG SRC='"
IMAGE "' alt='" TIMEPD "' BORDER=0></a>";
     else do;
       IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.gif");
       PUT "<a href=""" HREF +(-1) """ &target.><IMG SRC='"
IMAGE "' alt='" TIMEPD "' BORDER=0></a>";
     end;
  %end;
  %else %do;
   IF _N_=1 THEN HREF=HREFp1;
   ELSE IF _N_=2 THEN HREF=HREFp2;
   ELSE IF _N_=3 THEN HREF=HREFp3;
   ELSE IF _N_=4 THEN HREF=HREFp4;
ELSE IF _N_=5 THEN HREF=HREF5;
   /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE*/
   /* MER 10/24/09 Fix no longer needed */
   /*%if &var3.=4 and &seppage.=2 %then %do;
      IF TIMEPD = "April, 2008" OR TIMEPD = "July, 2008" THEN DO;
PUT "<font face='&fontface.' size='1'><a href=""" HREF +(-1) """ &target.>" &HEADVAR. "<b>*</b></a></font>";
      END:
      ELSE DO;
        PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
      END;
   %end; */
   /* MER 05/14/2010 Fix no longer needed */
   /*%if &var3.=1 or &var3.=3 %then %do;
      IF TIMEPD = "Est. Quarterly Rate of Change" THEN DO;
        PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "<b>#</b></a></font>";
      END;
      ELSE DO;
        PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
     END;
   %end;
   %else %do;
     PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ & target.>" & HEADVAR. "</a></font>";
   PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
%end;
 IF EOF THEN DO;
   PUT "</font>";
   /*** 2-2 MAB removed scale row ***/
```

```
RUN;
%end;
/*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
%if &prefix=f %then %do;
  /*** Close out header HTML page ***/
 DATA _NULL_;
   FILE "&FILEOUT1." MOD;
   PUT "</center>";
   PUT "</body></html>";
  RIIN;
  /*** Since done making frame 1 page then assign fileout1 = frame 2 ***/
  %let fileout1=&fileout3.;
  /*** Initialize out data HTML page ***/
  DATA _NULL_;
   FILE "&FILEOUT3.";
    PUT "<! Created &datetime.>";
   PUT "<html>";
    PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";
    PUT "<center><table border='1' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
cols=&columns. width=640>";
%end;
/**** Colored scores and Stub
/*************
%if &seppage.=0 OR &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
                               ***MER 4/21/09 Changed 7/8/9/10 to 6/7/8/9;
DATA HTML3;
 SET SUBSET4;
RIIN;
%end;
%else %if &seppage.=1 %then %do;
DATA HTML3;
 SET SUBSET4;
  /*** 8-7-2003 Mark Brinkley ***/
 IF TIMEPD="&currentperiod.";
  /*** Since spliting up table need to delete some records ***/
  /*** Modified 2-2 MAB to deal with new period values **/
  IF BENTYPE="Composite" THEN DELETE; ***DKB ADDED TREND 5/2/2002***;
RUN;
                                       ***MJS 07/03/03 Changed from BENTYPE IN any period and
Est. Quarterly Rate of Change;
%end;
%else %if &seppage.=2 %then %do;
DATA HTML3;
 SET SUBSET4;
  /*** Since spliting up table need to delete some records ***/
  /*** Modified 2-2 MAB to deal with new period values **/
* IF BENTYPE="Composite";
                           ***DKB ADDED TREND 5/2/2002***;
  *** RSG ADDED VAR4 CONDITIONS FOR SUB-BENEFIT TREND PAGES 08/07/03;
  %if &var4. = 0 %then %do;
        IF BENTYPE="Composite";
  %end;
```

```
%else %if &var4. ne 0 and BENTYPE ne "Composite" %then %do;
     %if &var3. = 1 %then %do;
          %if &var4. = 1 %then %do;
             IF BENTYPE = "Getting to See a Specialist";
          %end;
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Getting Treatment";
      %end;
      %else %if &var3. = 2 %then %do;
         %if &var4. = 1 %then %do;
             IF BENTYPE = "Wait for Routine Visit";
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Wait for Urgent Care";
         %end;
      %end;
      %else %if &var3. = 3 %then %do;
         %if &var4. = 1 %then %do;
              IF BENTYPE = "Listens Carefully";
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Explains so You Can Understand";
          %end;
         %else %if &var4. = 3 %then %do;
             IF BENTYPE = "Shows Respect";
          %else %if &var4. = 4 %then %do;
             IF BENTYPE = "Spends Time with You";
         %end;
      %end;
      %else %if &var3. = 4 %then %do;
         %if &var4. = 1 %then %do;
             IF BENTYPE = "Getting Information";
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Courteous Customer Service";
          %end;
      %end;
      %else %if &var3. = 5 %then %do;
         %if &var4. = 1 %then %do;
              IF BENTYPE = "Claims Handled in a Reasonable Time";
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Claims Handled Correctly";
          %end;
      %end;
      %else %if &var3. = 10 %then %do;
          %if &var4. = 1 %then %do;
             IF BENTYPE = "Mammography";
          %end;
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Pap Smear";
          %end;
          %else %if &var4. = 3 %then %do;
             IF BENTYPE = "Hypertension";
          %else %if &var4. = 4 %then %do;
             IF BENTYPE = "Prenatal Care";
          %end;
      %end;
      %else %if &var3. = 11 %then %do;
                                        /*** MAB Added 2/11/2005 ***/
          %if &var4. = 1 %then %do;
             IF BENTYPE = "Non-Smoking Rate";
          %end;
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Counselled To Quit";
          %else %if &var4. = 3 %then %do;
             IF BENTYPE = "Percent Not Obese";
          %end;
     %end;
%end;
```

```
RUN;
                           ***MJS 07/03/03 Changed from BENTYPE IN any period and Est. Quarterly
Rate of Change;
%end;
/*\hat{\mathbb{U}}\hat{\mathbb{U}}\hat{\mathbb{U}} ALL MAJGRPS \hat{\mathbb{U}}\hat{\mathbb{U}}\hat{\mathbb{U}}^*/
%if &var1.=0 %then %do;
DATA HTML4;
 SET HTML3 END=EOF;
  *LENGTH HREF $ 250; /*MJS 01/29/04 Commented out statement*/
 IF MAJGRP="Prime Enrollees" THEN MAJNUM=1;
  IF MAJGRP="Enrollees with Military PCM" THEN MAJNUM=2;
  IF MAJGRP="Enrollees with Civilian PCM" THEN MAJNUM=3;
  IF MAJGRP="Standard/Extra Users" THEN MAJNUM=4; ***JSO 10/31/07 Added Civilian PCM;
 IF MAJGRP="Purchased Care Users" THEN MAJNUM=5;
                                                  ***JSO 07/28/08 Purchased Care Users;
                                                  ***(MAJNUM=3), and changed 3-7 bacl to 4-8;
  IF MAJGRP="Active Duty" THEN MAJNUM=6;
  IF MAJGRP="Active Duty Dependents" THEN MAJNUM=7;
 IF MAJGRP="Retirees and Dependents" THEN MAJNUM=8;
 IF MAJGRP="All Users" THEN MAJNUM=9;
 /*** HREF link to another page ***/
/* HREF=COMPRESS("..\html\&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
   RSG 02/2005 - changed for period1-3, link goes to that period component page*/
   HREF=COMPRESS("&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
  /*** MAB 7-12-2001 updated to reference trend page if needed ***/
  /**RSG 02/2005 - CONUS TREATED AS REGION, COMMENT OUT CODE**/
  /*%if &var2.^=17 and &var2.^=18 and &var2.^=19 and &var2.^=20 %then %do;
    IF SUBSTR(REGION,1,3)="USA" THEN DELETE;
  %end;*/
  LENGTH HREFQ LMAJGRP $ 100; /*MJS 02/11/04*/
 RETAIN LMAJGRP;
  IF _N_=1 THEN DO;
    LMAJGRP=" ";
    ROW=0;
    /*** Add links to trend data 7.6.2001 MAB ***/
    %let columns_less1=%EVAL(&columns.-1);
    %if &seppage.=0 %then %do;
         FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
         PUT "<font face='&fontface.'
size='2'><b>Trends</b></font>";
         /**RSG 02/2005 Comment out next line because total score is removed **/
           PUT "&htmlsp.";
          %do i=1 %to 11; ***MER 04/21/09 Changed 12 to 11 for 11 Benefits;
            %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do; ***MER 04/21/09 Changed
7,8,9,10 to 6,7,8,9;
                HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0q.htm"); /*** href to 2nd
html file ***/
            %end;
            %else %do;
                HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0.htm"); /*** href to 2nd
html file ***/
            PUT "<a href='" HREFQ "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a>";
          %end;
         PUT "";
   %end;
 END;
```

```
IF LMAJGRP^=MAJGRP THEN DO;
                               /*** Start new row ***/
      FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
      ROW+1;
      IF LMAJGRP^=" " THEN PUT ""; /*** terminate previous row ***/
      /*** Column 1 / Row 1 ***/
      /*** ÛÛ FRAMES SECTION ÛÛ ***/
      %if &prefix=f %then %do;
         IF MAJGRP IN("Benchmark") THEN PUT "<b><font
face='&fontface.' size='2'>" MAJGRP "</font></b>"; /*** no HREF links ***/
      %end;
      %else %do;
        IF MAJGRP IN("Benchmark") THEN PUT "<b>font face='&fontface.' size='2'>"
MAJGRP "</font></b>";
                                          /*** no HREF links ***/
      %end;
      /*** Column 1 / Row 2+ ***/
      ELSE IF MOD(ROW, 2) = 0 THEN PUT "<font face='&fontface.'
size='2'><a href=""" HREF +(-1) """ &target.> " MAJGRP " </a></font>"; /** Shade row **/
      ELSE PUT "<font face='&fontface.' size='2'><a href=""" HREF +(-1) """ &target.> "
MAJGRP " </a></font>";
      /* 2000/11: begin xls code */
      /*____*/
       %if &outxls.=1 %then %do;
        FILE XLSDATA;
                           PUT " ";
        IF LMAJGRP^=" " THEN
        IF REGION IN("Benchmark") THEN PUT REGION '09'x @@; /* '09'x ensures text string is
put into one cell */
                                PUT MAJGRP '09'x @@; /* rather than spanning across
        ELSE IF MOD(ROW, 2) = 0 THEN
cells
                                 PUT MAJGRP '09'x @@;
       %end;
      /*----*/
      /* 2000/11: end xls code */
      /*----*/
      LMAJGRP=MAJGRP;
 END;
 /*** Column 2+ ***/
 /**** Need to output different formats ****/
 /***************
 FILE "&FILEOUT1." MOD ;
                               /* 2000/11: refer back to htm file */
 IF MAJGRP IN("Benchmark") THEN DO;
     IF SCORE=. THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SCORE=.A THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
    ELSE PUT "<b><font face='&fontface.'
color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
 END;
 ELSE DO;
   IF SCORE=. THEN DO;
     PUT "<b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE IF SCORE=.A THEN DO;
     PUT "<b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE DO;
```

```
IF SIG=1 THEN PUT "<b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=. THEN PUT "<b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=.A THEN PUT "<b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=-1 THEN PUT "<i>>font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i>";
     ELSE PUT "<font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font>";
  END;
 END;
 /*----*/
 /* 2000/11: begin xls code */
 /*----*/
 %if &outxls.=1 %then %do;
  FILE XLSDATA;
   IF MAJGRP IN("Benchmark") THEN DO;     /** Replaced 1-22 mab **/
                     PUT "***" '09'x @@;
      IF SCORE=. THEN
      ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
                        PUT SCORE 3.0 '09'x @@;
       ELSE
   END;
   ELSE DO;
    IF SCORE=. THEN DO;
       PUT "***" '09'x @@;
    ELSE IF SCORE=.A THEN DO;
       PUT "NA" '09'x @@;
    END;
    ELSE DO;
       IF SIG=1 THEN
       ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
       ELSE IF SIG=-1 THEN PUT SCORE 3.0 '09'x @@;
       ELSE
                       PUT SCORE 3.0 '09'x @@;
    END;
   END;
 %end;
 /*____*/
 /* 2000/11: end xls code */
 /*----*/
 IF EOF THEN DO;
   FILE "&FILEOUT1." MOD ;
                                         /* 2000/11: to refer back to htm file */
   PUT ""; /*** terminate last row ***/
   %BOTTOM NOTES; /** Macro with bottom notes **/
   /*----*/
   /* 2000/11: begin xls code */
   /*----*/
   %BOTTOM_NOTES_XLS; /** Macro with bottom notes for XLS **/
   /* 2000/11: end xls code */
   /*----*/
 END;
RUN;
%end;
```

```
DATA HTML4;
 SET HTML3 END=EOF;
  *LENGTH HREF $ 250;
                    /*MJS 01/29/04 Commented out statement*/
 LENGTH LREGION HREFQ $ 100; /*MJS 02/11/04*/
 RETAIN LREGION;
 IF _N_=1 THEN DO;
    LREGION=" ";
    REGNUM=1;
    ROW=0;
   /*** Add links to trend data 7.6.2001 MAB ***/
   %let columns_less1=%EVAL(&columns.-1);
   %if &seppage.=0 %then %do;
         FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
        PUT "<font face='&fontface.'
size='2'><b>Trends</b></font>";
         /**RSG 02/2005 Commented out next line because no longer have TOTAL score**/
          PUT "&htmlsp.";
          %do i=1 %to 11; ***MER 04/21/09 changed 12 to 11 since we now have 11 benefits;
            %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do; ***MER 04/21/09 Changed
from 7,8,9,10 to 6,7,8,9;
              HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0q.htm"); /*** href to 2nd
html file ***/
           %end;
           %else %do;
              HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0.htm"); /*** href to 2nd
html file ***/
           %end;
           PUT "<a href='" HREFQ "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a>";
        %end;
        PUT "";
   %end;
END;
 IF LREGION THEN DO;
                                       /*** Start new row ***/
       FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
       ROW+1;
       IF LREGION^=" " THEN PUT ""; /*** terminate previous row ***/
       /* 2000/11: begin xls code */
       %if &outxls.=1 %then %do;
        FILE XLSDATA;
                                          /*** terminate previous row ***/
        IF LREGION^=" " THEN PUT " ";
                                            /* 2000/11: to refer back to htm file */
        FILE "&FILEOUT1." MOD ;
       %end;
       /*----*/
       /* 2000/11: end xls code */
       /*----*/
       /*** Column 1 / Row 1 ***/
       /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
       %if &prefix=f %then %do;
         IF REGION IN("Benchmark") THEN PUT "<b><font
face='&fontface.' size='2'>" REGCAT "</font></b>"; /*** no HREF links ***/
       %else %do;
         IF REGION IN("Benchmark") THEN PUT "<b><font face='&fontface.' size='2'>"
REGCAT "</font></b>"; /*** no HREF links ***/
       %end;
                /*** HREF links for each region ***/
       ELSE DO;
```

```
/*HREF=COMPRESS("..\html\&prefix.0-"||REGNUM||"-&var3.-&var4.&q..htm");
           RSG 02/2005 - Changed link so period1-3 will link to appropriate component page*/
           HREF=COMPRESS("&prefix.0-"||REGNUM||"-&var3.-&var4.&q..htm");
         /*** MAB 7-12-2001 updated to reference trend page if needed ***/
         /*** Certain major groups are not large enough to show ***/
         /*** catchment level detail. so don't add HREF link here ***/
         /*** Remove since qtrs not going down to catchment level ***/
         /**%if &var1.=3 or &var1.=5 or &var1.=6 %then %do; ***MJS 05/04/03 Removed Civilian
PCM (&var1.=3), and changed 4,6,7 to 3,5,6;
          IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.' size='2'>
" REGCAT " </font>";
                          Shade row
           ELSE PUT "<font face='&fontface.' size='2'> " REGCAT " </font>";
           %end;
           %else %do;
            \label{thmod}  \mbox{IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.'}  
size='2'><a href=""" HREF +(-1) """> " REGCAT " </a></font>"; Shade row
           ELSE PUT "<font face='&fontface.' size='2'><a href=""" HREF +(-1) """> "
REGCAT " </a></font>";
           %end; * * /
         /*** Column 1 / Row 2+ ***/
         %if &prefix=f %then %do;
            if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
                regcat = "OVERSEAS" or regcat="US MHS" then do; /* MER 08/27/09 changed to US
MHS */
               IF MOD(ROW,2)=0 THEN PUT "<b><font face='&fontface.'
size='2'><a href=""" HREF +(-1) """ &target.> " REGCAT " </a></b></font>"; /** Shade row **/
                ELSE PUT "<b><font face='&fontface.' size='2'><a href=""" HREF +(-1) """
&target.> " REGCAT " </a></b></font>";
            end;
            else do;
               IF MOD(ROW,2)=0 THEN PUT "font face='&fontface.'
size='2'><a href=""" HREF +(-1) """ &target.> " REGCAT " </a></font>"; /** Shade row **/
               ELSE PUT "<font face='&fontface.' size='2'><a href=""" HREF +(-1) """
&target.> " REGCAT " </a></font>";
            end;
         %end;
         %else %do;
            if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
                regcat = "OVERSEAS" or regcat="US MHS" then do; /* MER 08/27/09 changed to US
MHS */
IF MOD(ROW,2)=0 THEN PUT "<b><font face='&fontface.' size='2'><a href=""" HREF +(-1) """ &target.> " REGCAT " </a></b></font>"; /** Shade row **/
               ELSE PUT "<b><font face='&fontface.' size='2'><a href=""" HREF +(-1) """
&target.> " REGCAT " </a></b></font>";
            end;
            else do;
               IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.'
size='2'><a href=""" HREF +(-1) """ &target.> " REGCAT " </a></font>"; /** Shade row **/
               ELSE PUT "<font face='&fontface.' size='2'><a href=""" HREF +(-1) """
&target.> " REGCAT " </a></font>";
            end;
         %end;
         REGNUM+1;
         /**RSG 02/2005 Conus treated as Region, comment out code**/
         /**IF SUBSTR(REGION,1,3) = "USA" THEN DO;
            REGNUM=ORIGNUM;
         END; **/
       END;
       /* 2000/11: begin xls code */
```

```
%if &outxls.=1 %then %do;
       FILE XLSDATA;
       IF REGION IN("Benchmark") THEN PUT REGCAT '09'x @@; /* no logic difference */
       ELSE DO;
         IF MOD(ROW, 2) = 0 THEN
                                PUT REGCAT '09'x @@; /* just presentation difference
in htm */
                                PUT REGCAT '09'x @@; /* keeping as is to preserve htm
        ELSE
code structure */
       END;
      %end;
      /*----*/
      /* 2000/11: end xls code */
      LREGION=REGION;
 END;
 /*** Column 2+ ***/
 /**********************************
 /**** Need to output different formats ****/
 FILE "&FILEOUT1." MOD; /* 2000/11: refer back to htm file */
 IF REGION IN("Benchmark") THEN DO;
                               /*** no significance ***/
     IF SCORE=. THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SCORE=.A THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE PUT "<b><font face='&fontface.'
color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
 END;
 ELSE DO;
   IF SCORE=. THEN DO;
      PUT "<b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   ELSE IF SCORE=.A THEN DO;
     PUT "<b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE DO;
      IF SIG=1 THEN PUT "<b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=. THEN PUT "<b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=.A THEN PUT "<b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=-1 THEN PUT "<i>>font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i>";
     ELSE PUT "<font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font>";
  END;
 END;
 /* 2000/11: begin xls code */
 /*_____*/
 %if &outxls.=1 %then %do;
  FILE XLSDATA;
   IF REGION IN("Benchmark") THEN DO;
      IF SCORE=. THEN PUT "***" '09'x @@;
      ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
      ELSE
                      PUT SCORE 3.0 '09'x @@;
   END;
   ELSE DO;
    IF SCORE=. THEN DO;
       PUT "***" '09'x @@;
    END;
    ELSE IF SCORE=.A THEN DO;
     PUT "NA" '09'x @@;
    FND:
    ELSE DO;
```

```
IF SIG=1 THEN
                           PUT SCORE 3.0 '09'x @@;
         ELSE IF SIG=. THEN PUT "***" '09'x @@;
ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
         ELSE IF SIG=-1 THEN PUT SCORE 3.0 '09'x @@;
                            PUT SCORE 3.0 '09'x @@;
         ELSE
     END;
   END:
  %end;
  /*____*/
  /* 2000/11: end xls code */
  /*----*/
 IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ;
                                         /* 2000/11: refer back to htm file */
    PUT ""; /*** terminate last row ***/
     %BOTTOM_NOTES; /** Macro with bottom notes **/
     /*----*/
     /* 2000/11: begin xls code */
     /*----*/
     %BOTTOM_NOTES_XLS; /** Macro with bottom notes for XLS **/
     /*----*/
     /* 2000/11: end xls code */
     /*----*/
 END;
RIIN;
%end;
/*\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}} Single Regions \hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}*/
/* This code is not applicable for the 2000 report cards */
/* since not enough data to display sub-region info. */
/* Will leave in code in case this changes */
%if &var2.^=0 AND &var1.^=0 %then %do;
DATA HTML4;
 SET HTML3 END=EOF;
 LENGTH LREGCAT $ 100 /*HREF $ 250*/; /*MJS 01/29/04 Commented out HREF statement*/
 RETAIN LREGCAT;
                                       /*MJS 02/11/04*/
 IF _N_=1 THEN DO;
    LREGCAT=" ";
    ROW=0;
 EMD:
 IF LREGCAT THEN DO;
                                         /*** Start new row ***/
       FILE "&FILEOUT1." MOD ; /* 2000/11: moved inside if stmt */
       ROW+1;
       IF LREGCAT^=" " THEN PUT ""; /*** terminate previous row ***/
       IF REGCAT IN("Benchmark") THEN PUT "<br/>font face='&fontface.' size='2'>" REGCAT
"</font></b>";
       ELSE IF SUBSTR(REGCAT,1,2) = "US" THEN PUT "<d>><font
face='&fontface.' size='2'>" REGCAT "</font></b>";
      ELSE IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.' size='2'>"
REGCAT "</font>"; /** Shade row **/
       ELSE PUT "<font face='&fontface.' size='2'>" REGCAT "</font>";
```

```
/* 2000/11: begin xls code */
      /*----*/
      %if &outxls.=1 %then %do;
       FILE XLSDATA;
        IF LREGCAT^=" " THEN PUT " ";
        IF REGCAT IN("Benchmark") THEN
                                     PUT REGCAT '09'x @@;
                                                           /* no logic difference
* /
       ELSE IF SUBSTR(REGCAT,1,2) = "US") THEN PUT REGCAT '09'x @@;
       ELSE IF MOD(ROW, 2) = 0 THEN
                                    PUT REGCAT '09'x @@;
                                                            /* just presentation
difference in htm */
                                    PUT REGCAT '09'x @@;
       ELSE
                                                           /* keeping as is to
preserve htm code structure */
      %end;
      /*----*/
      /* 2000/11: end xls code */
      /*____*/
      LREGCAT=REGCAT;
 END:
 /***********************************
 /**** Need to output different formats ****/
 /******************************/
FILE "&FILEOUT1." MOD; /* 2000/11: refer back to htm file */
IF REGION IN("Benchmark") THEN DO; /*** no significance ***/
     IF SCORE=. THEN PUT "<b><font face='&fontface.'
color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE PUT "<b><font face='&fontface.' color=&blue.
size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
 ELSE DO;
   IF SCORE=. THEN DO;
     PUT "<b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   ELSE IF SCORE=.A THEN DO;
     PUT "<b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE DO;
     IF SIG=1 THEN PUT "<b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=. THEN PUT "<b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=.A THEN PUT "<b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=-1 THEN PUT "<i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i>";
     ELSE PUT "<font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font>";
  END;
 END;
 /* 2000/11: begin xls code */
 /*----*/
 %if &outxls.=1 %then %do;
   FILE XLSDATA;
   IF REGION IN("Benchmark") THEN DO;
                        PUT "***" '09'x @@;
       IF SCORE=. THEN
       ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
                        PUT SCORE 3.0 '09'x @@;
   END;
   ELSE DO;
    IF SCORE=. THEN DO;
      PUT "***" '09'x @@;
```

```
ELSE IF SCORE=.A THEN DO;
       PUT "NA" '09'x @@;
     END;
     ELSE DO;
       ELSE IF SIG=-1 THEN PUT SCORE 3.0 '09'x @@;
                        PUT SCORE 3.0 '09'x @@;
        ELSE
    END;
   END;
 %end;
 /* 2000/11: end xls code */
 /*----*/
 IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ;
                            /* 2000/11: refer back to htm file */
    %BOTTOM_NOTES; /** Macro with bottom notes **/
    /*----*/
    /* 2000/11: begin xls code */
    %BOTTOM_NOTES_XLS; /** Macro with bottom notes for XLS **/
    /* 2000/11: end xls code */
    /*----*/
 END;
RIIN;
%end;
/************
/**** Print out footer info ****/
/************
DATA _NULL_;
  FILE "&FILEOUT1." MOD ;
   LENGTH HREF $250;
   /** Determine where back button should link to **/
   %if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.8-0-0-0.htm"); ***MJS 05/14/03 Changed 8 to 7;
   %end;
   %else %do;
     HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
   %end;
   /*HERE!*/
   /** MF Changes **/
   PUT "";
   PUT " ";
          <center>";
   PUT "
              <a href='..\html\index.htm' &target.><img src=&home_but. border='0' alt='Return</pre>
to Main Page'></a>&htmlsp.&htmlsp.";
        /*** 7-17 MAB added JS code to go back ***/
   PUT "&goback.";
   PUT "
              <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
              <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a><br>";
   PUT "
              <font face='Arial, Helvetica, Swiss, Geneva' size='2'><b>&grpmsg.<br>";
```

```
יי דווק
                </b></font>";
   majgrp1=COMPRESS("&prefix.1-&var2.-&var3.-&var4.&q..htm");
   majgrp2=COMPRESS("&prefix.2-&var2.-&var3.-&var4.&q..htm");
   majgrp3=COMPRESS("&prefix.3-&var2.-&var3.-&var4.&q..htm");
                                                              ***JSO 10/31/07 Added Civilian
                                                               ***(majgrp3), and changed 3-7
   majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");
back to 4-8;
   majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");
                                                               ***JSO 07/28/08 Added Purchased
Care Users;
   majgrp6=COMPRESS("&prefix.6-&var2.-&var3.-&var4.&q..htm");
   majgrp7=COMPRESS("&prefix.7-&var2.-&var3.-&var4.&q..htm");
   majgrp8=COMPRESS("&prefix.8-&var2.-&var3.-&var4.&q..htm");
   majgrp9=COMPRESS("&prefix.9-&var2.-&var3.-&var4.&q..htm");
     /*** Certain major groups are not large enough to show ***/
     /*** catchment level detail. So if we are in html file ***/
    ***/
     /*** file which doesn't exist
   %if &var1.^=0 %then %do;
     %if &varl.^=4 and &varl.^=6 and &varl.^=7 and &var2.^=0 %then %do; ***JSO 10/31/07 Added
Civilian PCM (&var1.^=3), changed 3,5,6 back to 4,6,7;
                                                                         ***and changed MAJGRP
4&7 below back to 5&8;
        PUT "<a href=""" MAJGRP1 +(-1) """ &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.&htmlsp.";
        PUT "<a href=""" MAJGRP2 +(-1) """ &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.%itmlsp.";
        PUT "<a href=""" MAJGRP6 +(-1) """ &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href=""" MAJGRP9 +(-1) """ &target.><font face='&fontface.' size='2'>All
Users</font></a>";
     %end;
     %else %do;
       PUT "<a href=""" MAJGRP1 +(-1) """ &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.&htmlsp.";
       PUT "<a href=""" MAJGRP2 +(-1) """ &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.&htmlsp.";
       PUT "<a href=""" MAJGRP3 +(-1) """ &target.><font face='&fontface.' size='2'>Enrollees
with Civilian PCM</font></a>&htmlsp."; ***JSO 10/31/07 Added Civilian PCM;
       PUT "<a href=""" MAJGRP4 +(-1) """ &target.><font face='&fontface.'
size='2'>Standard/Extra Users</font></a>&htmlsp.%htmlsp.";
                                                                  ***(MAJGRP5), and changed 3-7
back to 4-8;
       PUT "<a href=""" MAJGRP5 +(-1) """ &target.><font face='&fontface.' size='2'>Purchased
                                                ***JSO 07/28/08 Added Purchased Care Users;
Care Users</font></a>&htmlsp.&htmlsp.";
       PUT "<br>";
       PUT "<a href=""" MAJGRP6 +(-1) """ &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
       PUT "<a href=""" MAJGRP7 +(-1) """ &target.><font face='&fontface.' size='2'>Active Duty
Dependents</font></a>&htmlsp.%htmlsp.";
       PUT "<a href=""" MAJGRP8 +(-1) """ &target.><font face='&fontface.' size='2'>Retirees and
Dependents</font></a>&htmlsp.%htmlsp.";
       PUT "<a href=""" MAJGRP9 +(-1) """ &target.><font face='&fontface.' size='2'>All
Users</font></a>";
     %end;
   %end;
   /*** link to printer friendly version moved C.Rankin 10/25/2001 ***/
   /*** 4-17 MAB added ***/
   /*** If creating frames need link to printer friendly version of file ***/
```

HREFP=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..htm");

/***DANIELE ADDED BR STATEMENT ON 11/1/01 SO PRINTER ICON WOULD SHOW UP ON SEPARATE LINE ***/

%if &prefix=f %then %do;

```
<BR><font face='Arial,Helvetica,Swiss,Geneva' size='1'><a href='" HREFP "'</pre>
&target.><img src='&imgdir.\printer.gif' alt='Printer Friendly Page' border=0>Printer Friendly
Page</a></font>
  %end;
RUN;
/*** Close HTML page ***/
DATA _NULL_;
 FILE "&FILEOUT1." MOD ;
 PUT "</center>";
 PUT "</body></html>";
RUN;
/* 2000/12: begin xls color code */
/*----*/
%if &outxls.=1 %then %do;
  /* Align 2 titles */
 DATA _NULL_;
    FILE SAS2XL;
     CELL=COMPRESS("[SELECT(""R1C1:R1C"||&columns.||""")]"); PUT CELL;
    PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across columns **/
CELL=COMPRESS("[SELECT(""R2C1:R2C"||&columns.||""")]"); PUT CELL;
    PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across columns **/
 RUN;
 DATA _NULL_;
   FILE SAS2XL;
    SET HTML4(DROP=ROW) END=EOF;
    RETAIN ROW COLUMN;
    /*** Need to initialize row and column pointers ***/
    IF _N_=1 THEN DO;
     ROW=6;
     COLUMN=1;
    END;
   /*** Increment Row and Column pointers ***/
     COLUMN=COLUMN+1;
   IF \alpha (0,6,7,8,9) and COLUMN>\alpha to the DO: ***MER 4/21/09 Changed 7/8/9/10 to
6/7/8/9;
      ROW=ROW+1;
       COLUMN=2;
    END;
    ELSE IF COLUMN>&columns.+1 THEN DO;
      ROW=ROW+1;
       COLUMN=2;
   END;
*** RSG/MAB - 10/13/03 - changes for new template format */
   COLUMN=COLUMN+1;
    IF COLUMN>&columns. THEN DO;
      ROW=ROW+1;
      COLUMN=2;
    CELL=COMPRESS("[SELECT(""R"||ROW||"C"||COLUMN||":R"||ROW||"C"||COLUMN||"""));
    PUT CELL;
    /** Before color cell center data **/
    PUT '[ALIGNMENT(3, False, 3,0, False)]';
```

```
IF REGION IN("Benchmark") OR MAJGRP IN("Benchmark") THEN PUT
'[FORMAT.FONT("Arial",10,True,False,False,False,9)]'; /*** BOLD & DARK RED ***/
   ELSE IF SCORE NOT IN(.,.A) THEN DO;
     IF SIG=1 THEN PUT '[FORMAT.FONT("Arial",10,True,False,False,False,10)]';
                                                                               /*** BOLD
& GREEN ***/
    ELSE IF SIG=-1 THEN PUT '[FORMAT.FONT("Arial",10,False,True,False,False,3)]';
                                                                                /*** RED
     ELSE PUT '[FORMAT.FONT("Arial",10,False,False,False,False,5)]'; /*** BLUE ***/
   END;
   /*** If last record then output footer ***/
   IF EOF THEN DO;
      ROW=ROW+3; COLUMN=1;
      CELL=COMPRESS("[SELECT(""R"||ROW||"C"||COLUMN||":R"||ROW||"C"||COLUMN||""")]");
      PUT CELL;
      PUT '[FORMAT.FONT("Arial", 10, True, False, False, False, 10)]';
                                                                    /*** BOLD & GREEN ***/
      ROW=ROW+1;
      CELL=COMPRESS("[SELECT(""R"||ROW||"C"||COLUMN||":R"||ROW||"C"||COLUMN||""")]");
      PUT '[FORMAT.FONT("Arial",10,False,True,False,False,3)]'; /*** RED ***/
   END;
 RUN;
 DATA _NULL_;
   FILE SAS2XL;
   PUT '[CLOSE(true)]';
 RIIN:
%end;
/* 2000/12: end xls color code */
/*----*/
%MEND MKHTML;
%LET PREFIX=p;
%LET OUTXLS=0;
%MKHTML(0,21,2,2,0);
%MKHTML(1,0,1,2,0);
%MKHTML(1,0,2,2,0);
%MKHTML(1,0,4,2,0);
%MKHTML(2,0,2,2,0);
%MKHTML(2,0,4,2,0);
%MKHTML(3,0,11,2,0);
%MKHTML(3,0,2,2,0);
%MKHTML(3,0,4,2,0);
%MKHTML(4,0,1,2,0);
%MKHTML(4,0,2,2,0);
%MKHTML(6,0,11,2,0);
**** Create macros to call MKHTML macro ****;
***************
/*** Create 8 HTML pages (8 Majgrps / All Regions / All Benefits)***/
%MACRO DOALL1();
           %MKHTML(1,0,0,0,0);
           %MKHTML(2,0,0,0,0);
          %MKHTML(6,0,0,0,0);
          %MKHTML(9,0,0,0,0);
```

```
%MKHTML(3,0,0,0,0); ***JSO 10/31/07 Added Civilian PCM (Majgrp 3), and changed 3-7
back to 4-8;
            %MKHTML(4,0,0,0,0);
            %MKHTML(5,0,0,0,0);
                                  ***JSO 07/28/08 Added Purchased Care Users;
            %MKHTML(7,0,0,0,0);
            %MKHTML(8,0,0,0,0);
%MEND DOALL1;
/*** Create 322 HTML pages (8 Majgrps / All Regions / 12 Benefits)***/
%MACRO DOALL2();
   %DO J=1 %TO 9;
                                                               /*** JSO Changed 8 to 9
07/28/2008 ***/
     %DO K=1 %TO 11;
                         * 11 Sub-benefits ;
                                                          /*** MER Changed 12 to 11 04/21/2009
         %MKHTML(&J.,0,&K.,1,0); ***RSG 08/07/03 Add var4 part of new page numbers;
         /*** Call macro for 2nd page (except for ratings benefits) ***/
         %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
            %IF &K. = 3 OR &K. = 10 %THEN %DO L= 0 %TO 4; ***RSG 08/07/03 There are different
number of
                                      sub-benefits trend pages for each benefit so need a counter
" T. "
                                      to do different number of pages for each benefit;
               %MKHTML(&J.,0,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
               %MKHTML(&J.,0,&K.,2,&L.);
            % END:
            %ELSE %IF &K. = 11 %THEN %DO L = 0 %TO 3;
              %MKHTML(&J.,0,&K.,2,&L.);
            % END;
         %end;
      %END;
  %END;
%MEND DOALL2;
/*** Create 25 HTML pages (All Majgrps / 25 Regions / All Benefits) ***/
%MACRO DOALL3();
     %DO J=1 %TO 25;
          %MKHTML(0,&J.,0,0,0);
     %END;
%MEND DOALL3;
/*** Need to populate new table for all majgrps ***/
/*** Create 1150 HTML pages (All Majgrps / 25 Regions / 12 Benefits) ***/
%MACRO DOALL4();
   %DO J=1 %TO 25;
      %DO K=1 %TO 11;
         %MKHTML(0,&J.,&K.,1,0);
         /*** Call macro for 2nd page (except for ratings benefits) ***/
         %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
            %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4; ***RSG 08/07/03 Counter "L" for
different number;
               %MKHTML(0,&J.,&K.,2,&L.);
                                                                           *of sub-benefit trend
pages for each benefit;
            % END;
            %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
               %MKHTML(0,&J.,&K.,2,&L.);
            %END;
            %ELSE %IF &K. = 11 %THEN %DO L = 0 %TO 3;
               %MKHTML(0,&J.,&K.,2,&L.);
            %END;
         %end;
     %END;
   SEMD:
%MEND DOALL4;
```

```
/*** Create 4 HTML pages (All Majgrps / 4 Region-ConusMHS / All Benefits) ***/
/** RSG 02/2005 - CONUS TREATED AS ANOTHER REGION**/
/*%MACRO DOALL5();
         %DO K=17 %TO 20;
            %MKHTML(0,&K.,0,0,0);
         %END;
%MEND DOALL5;
%MACRO DOALL6();
       %DO J = 17 %TO 20;
                           ***MJS 4/23/03 Changed 2 to 1 and 12 to 11;
         %DO K=1 %TO 12;
            MKHTML(0,&J.,&K.,1,0);
            /*** Call macro for 2nd page (except for ratings benefits) ***/
              %if &k.^=7 AND &k.^=8 AND &k.^=9 AND &k.^=10 %then %do;
                % IF & K. = 1 OR & K. = 2 OR & K. = 4 % THEN % DO L = 0 % TO 4; *** RSG 08/07/03 counter
for sub-benefit trend pages;
                                                          ***MJS 4/23/03 Changed 8/9/10/11 to
                    %MKHTML(0,&J.,&K.,2,&L.);
7/8/9/10;
                %END;
                %ELSE %IF &K. = 3 OR &K. = 6 OR &K.=12 %THEN %DO L = 0 %TO 2;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %END;
                %ELSE %IF &K. = 5 %THEN %DO L = 0 %TO 3;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %ELSE %IF &K. = 11 %THEN %DO L = 0 %TO 5;
                    %MKHTML(0,&J.,&K.,2,&L.);
                %END;
            %end;
        %END;
      %end;
%MEND DOALL6;
*/
/*** Run macro to create Printer Friendly HTML files (non-frames) ***/
%LET PREFIX=p;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;
%DOALL3;
%DOALL4;
/*** Run macro to create Excel files ONLY ***/
%LET PREFIX=p;
%LET OUTXLS=1;
%DOALL1;
%DOALL2;
%DOATITI3;
%DOALL4;
/*** Run macro to create Frame HTML files ***/
%LET PREFIX=f;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;
%DOALL3;
%DOALL4;
```

έF	Ū	Т	"	&:	nι	ıπ	ıb	eı	-	.ht	tn	n1	_	f:	i 1	.e	S	•	H	ΤN	ΊI	1	f	il	Le	s	(Cl	re	a	te	ed	. '	" ;	;																				
٠,	*	* *	* *	*	* *	* *	*	* *	*	* :	* *	*	*	* :	* *	*	* :	* *	*	* *	* *	*	*	* *	* *	*	*	* *	* *	*	* *	*	* :	* *	* *	*	* *	*	* *	*	*	* *	*	*	*	* *	t *	*	* :	* *	٠*	*	* :	* *	:
٠,	*	* *	* *	*	* *	* *	*	* *	* *	*	* *	*	*	* :	* *	*	*:	* *	*	* *	٠.	*	*	* *	٠*	*	*	* *	* *	*	* *	*	* :	* *	* *	*	* *	*	* *	*	*	* *	*	*	*	* *	t *	*	* :	* *	٠*	*	* :	* *	
٠,	*	* *	* *	*	* *	* *	*	* *	* *	*:	* *	*	*	* :	* *	*	* :	* *	*	* :	٠.	*	*	* *	٠ *	*	*	* :	* *	*	* *	*	* :	* *	* *	*	* *	*	* *	*	*	* *	*	*	*	* *	· *	*	* :	* *	* *	*	* :	* *	,
٠,	*	* *	* *	*	* *	* *	*	* *	* *	* :	* *	*	*	* :	* *	*	*:	* *	*	* *	٠.	*	*	* +	٠.	*	*	* *	* *	*	* *	*	* :	* *	* *	*	* *	*	* *	* *	*	* *	* *	*	*	* *	٠.	*	* :	* *	* *	*	* :	* *	:
٠,	*	* *	* *	*	* *	* *	*	* *	* *	*:	* *	* *	*	* :	* *	* *	*:	* *	*	* *	٠.	*	*	* +	٠.	*	*	* *	* *	*	* *	*	* :	* *	* *	*	* *	*	* *	* *	*	* *	· *	*	*	* +	· *	*	* :	* +	* *	*	*:	* *	
٠,	*	* *	* *	*	* *	* *	*	* *	* *	*	* *	*	*	* :	* *	*	*:	* *	*	* :	٠.	*	*	* +	٠*	*	*	* :	* *	*	* *	*	* :	* *	* *	*	* *	*	* *	* *	*	* *	· *	*	*	* +	· *	*	*:	* +	* *	*	*:	* *	:

G.9.A ReportCards\CAHPS_Adult2013\STEP1Q.SAS - Create and recode variables used in Adult Beneficiary Reports - Annual.

```
PROJECT: DoD - Quarterly Adult Report Cards
PROGRAM: STEP1Q.SAS
PURPOSE: Create Dummy and Recode Variables used in Adult Report Card
                 Create a Female dummy variable
                 Create an Education dummy variable
                 Create 15 region dummies combining regions.
                        7 & 8 into region 8. That is, there
                        isn't a region 7 dummy.
                 Create 7 age dummy variables.
          We require the most desired code to be the highest value.
          Recode the dependent variables into:
                 1 - the least desirable value
                 2 - the 2nd least desirable value
                 3 - the most desirable value
                 . - missing
          Create 7 variables GROUP1 - GROUP7
                IF (XINS\_COV\ IN\ (1,2,6)\ AND\ H09004>=2)\ THEN\ GROUP1=1
                IF (XENR_PCM IN (1,2,6) AND H09004>=2) THEN GROUP2 = 1
                                     AND H09004>=2) THEN GROUP3 = 1
                IF (XENR\_PCM = 3,7)
                IF XINS_COV IN (3)
                                                       THEN GROUP4 = 1
                         /*JSO 08/24/2006, Deleted 4,5*/
                IF XBNFGRP = 1
                                                       THEN GROUP5 = 1
                IF XBNFGRP = 2
                                                        THEN GROUP6 = 1
                IF XBNFGRP IN (3,4)
                                                        THEN GROUP7 = 1
                GROUP8 is output for all beneficiaries
MODIFIED: 1) February 2001 By Keith Rathbun, Update for quarterly
             adult report cards. Removed permanent dataset ENTIRE.SD2.
          2) August 2\overline{0}01 By Keith Rathbun, Updated DSN and LIBNAME
             for 3rd quarter adult report cards.
          3) OCTOBER 2001 BY DANIELE BEAHM, Because there was no post-
             stratification done in Q3, changed all references of the
             POSTSTR variable to ADJ_CELL
          4) JANUARY 2002 BY DANIELE BEAHM, Modified group3 to include
             XENR_PCM
          5) April 2002 By Mike Scott, Updated variable names for 2002
             survey.
          6) July 2002 By Mike Scott: See Note #2. Replaced variable
             S02S01 with H04075 (new health status variable), deleted
             code to recode S02S01 to H00077, and changed H00077/R00077
             rename/recode to H04075/R04075 rename/recode. The Hispanic/
             Latino variable is not present.
          7) January 2003 By Mike Scott, Changed ADJ_CELL to COM_SAMP.
          8) March 2003 By Mike Scott, Updated variable names for 2003
             survev.
          9) June 2003 By Mike Scott, Updated for Q2 2003.
         10) July 2003 By Mike Scott, Changed COM_SAMP to ADJ_CELL.
         11) October 2003 By Mike Scott, Updated for Q3 2003.
         12) January 2004 By Mike Scott, Updated for Q4 2003, and changed
             DAGEQY to FIELDAGE.
         13) March 2004 By Mike Scott, Updated for Q1 2004.
         14) April 2004 By Keith Rathbun, Removed reverse coding for
             H04031. 2004 survey question wording is 'Within 15 minutes'
             instead of "More than 15 Minutes". Added service affiliation
             variables so only one version of this program is needed to
             handle the consumer watch processing.
          15) June 2004 by Regina Gramss, Updated for Q2 2004.
         16) Sept 2004 by Regina Gramss, changed XRegion to xtenxreg, updated for Q3 2004.
         17) Jan 2005 by Regina Gramss, changed XTENXREG to XSERVREG to include
             service affiliation. Regions have been changed from 4 categories to 16.
         18) Apr 2005 by Regina Gramss, updated field names for 2005 data.
         19) Jul 2005 by Regina Gramss, updated for Q2 2005
         20) Oct 2005 by Regina Gramss, updated for Q3 2005
         21) Dec 2005 by Regina Gramss, updated for Q4 2005
         22) March 21, 2006 by Keith Rathbun, updated variable names
```

```
for Q2 FY 2006. Changed references to ADJ_CELL to be STRATUM.
            23) July 12, 2006 by Justin Oh, updated for Q3 FY 2006
            24) Aug 22, 2006 by Justin Oh, changed overseas to 3 regions.
                Regions have been changed from 16 categories to 24.
                Added XOCONUS to the Keep statement for Overseas classifications.
                Changed XSERVREG for Overseas (Europe, Pacific, Latin America).
                Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                       IF XINS_COV IN (3)
                                            THEN GROUP4 = 1
               Since only XINS_COV IN (1,2,3,6) is kept, (4,5) not needed.
            25) Oct 03, 2006 by Justin Oh, changed input data HCS063_1 to HCS064_1
               for Q4FY2006 reports.
            26) Apr 05, 2007 by Justin Oh, Added %LET BCHTYPE to select BCH types
                Benchmark OR PurchasedBenchmark.
            27) Apr 05, 2007 by Justin Oh, Added changes to select RC types
               ReportCards OR PurchasedReportCards.
            28) Apr 26, 2007 by Justin Oh, Added codes, variables for new
                reservists logic.
            29) May 15, 2007 by Justin Oh, Changed XINS_COV to NXNS_COV to assign
               Groups 1,3, and 4 for new reservists logic.
            30) Jul 30, 2007 by Justin Oh, Added added DBENCAT conditions to assign
                Groups All, 4, 5, and 6.
            31) Oct 02, 2007 by Justin Oh, changed input data HCS073_1 to HCS074_1
               for Q4FY2007 reports.
            32) January 10, 2008 by Keith Rathbun, updated variable names
               for Q1 FY 2008.
            33) Apr 11, 2008 by Justin Oh, changed input data HCS081_1 to HCS082_1
                for Q2FY2008 reports.
            34) June 13, 2008 by Keith Rathbun, changed input data HCS082_1 to HCS083_1
                for Q3FY2008 reports.
            35) Jan 16, 2009 by Mike Rudacille, changed CONUS variable to USA
            36) Jan 21, 2009 by Mike Rudacille, changed 2009 questionnaire variables
                applicable to both V3 and V4 from V3 names to V4 names
            37) March 11, 2009 by Keith Rathbun, changed input data HCS091_1 to HCS092_1
               for Q2FY2009 reports.
            38) April 6, 2009 by Mike Rudacille, changed variable names to reflect
               modifications to beneficiary reports necessary for V4
            39) June 22, 2009 By Keith Rathbun, Change weight variable from
                FWRWT_V4 back to FWRWT. Changed input data HCS092_1 to HCS093_1
                for Q3FY2009 reports.
            40) Sept 30, 2009 By Mike Rudacille, Changed input data HCS093_1 to HCS094_1
                for Q4FY2009 reports.
        41) October 5, 2009 by Emma Ernst for 2009 Reports
            42) September 7, 2010 by Mike Rudacille for 2010 Reports
            43) November 2, 2010 by Mike Rudacille Changed input data from HCS10A_1 to HCS10A_2
            44) October 7, 2011 by Mike Rudacille for 2011 Reports
            45) November 11, 2012 By Mike Rudacille, Updated for handling of Joint Service
facilities
  INPUTS:
            1) HCSyyq_1 - DoD Quarterly HCS Database
  OUTPUTS: 1) GROUP1-8.sas7bdat - DoD Quarterly GROUP files as defined above
  INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional
                             values for consistency w/ TOPS
  NOTES:
            1) Groups 1-3 modified 10/09/2000
             2) In Q1_2002, S02S01 was renamed and recoded to H00077 (health
                status variable for 2000). H02077 was the Hispanic/Latino
                variable. In Q2_2002, H02077 is health status, and H02079
                is the Hispanic/Latino variable. To make the Quarter 2 data
                file (HSC022_1.sd2) more consistent with the Quarter 1 file,
                the health status variable which was H02077 is now H04075,
                and the Hispanic/Latino variable which was H02079 is now
               H02077.
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
```

OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMTERR NOOVP COMPRESS=YES;

LIBNAME OUT "DATA";

```
LIBNAME IN1 "..\..\Data";
LIBNAME LIBRARY "..\..\Data\fmtlib";
%LET WGT= CFWT;
TITLE1
         'Program Saved as: STEP1Q.SAS';
proc format;
     value servreg 1 = 'North Army'
                   2 = 'North Air Force'
                   3 = 'North Navy'
                   4 = 'North Other'
                   5 = 'North Joint Service'
                   6 = 'South Army'
                   7 = 'South Air Force'
                   8 = 'South Navy'
                  9 = 'South Other'
                  10 = 'South Joint Service'
                  11 = 'West Army'
                  12 = 'West Air Force'
                  13 = 'West Navy'
                  14 = 'West Other'
                  15 = 'West Joint Service'
                  16 = 'Europe Army'
                  17 = 'Europe Air Force'
                  18 = 'Europe Navy'
                  19 = 'Europe Other'
                  20 = 'Europe Joint Service'
                  21 = 'Pacific Army'
                  22 = 'Pacific Air Force'
                  23 = 'Pacific Navy'
                  24 = 'Pacific Other'
                  25 = 'Pacific Joint Service'
                  26 = 'Latin America Army'
                  27 = 'Latin America Air Force'
                  28 = 'Latin America Navy'
                  29 = 'Latin America Other'
                  30 = 'Latin America Joint Service';
DATA ENTIRE;
  SET IN1.HCS13A_2(KEEP=
                 MPRID
                 FIELDAGE
                           /*MJS 01/26/04*/
                 XTNEXREG
                            /*KRR 04/09/04*/
                 SERVAFF
                 DBENCAT
                            /*JSO 04/26/2007, added for reservists logic*/
                 USA
                 ENBGSMPL
                 SREDA
                 XSEXA
         XCATCH
                 XBNFGRP
                 STRATUM
                            /*KRR 04/03/2006, changed from ADJ_CELL*/
                 XINS_COV
                 XENR_PCM
                 XOCONUS
                            /*JSO 08/24/2006, Overseas Region Indicator*/
                 &WGT
                 QUARTER
                 /* Getting Needed Care */
                 H13033
                 H13029
                 /* Getting Care Quickly */
                 H13007
                 H13010
                 /* How Well Doctors Communicate */
                 H13021
                 H13022
                 H13023
                 H13024
                 /* Customer Service */
                 H13041
                 H13042
```

```
/* Claims Processing */
                H13046
                        /**********
                 H13047
                H13065 /* Health Status
                H13018 /* Health Care Rating
                H13048 /* Health Plan Rating
H13027 /* Personal Doctor Rating
                                                     * /
                H13031 /* Specialist Rating
                H13003 /* Health Plan Used
                                                     *//*JSO 04/26/2007, added for reservists
logic*/
                H13004 /* How Long in Health Plan */
                        /*********
                );
   FORMAT _ALL_;
   IF SERVAFF='A' THEN XSERVAFF=1;
                                                *Army;
      ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                                *Air Force;
      ELSE IF SERVAFF='N' THEN XSERVAFF=3;
                                                *Navy;
      ELSE XSERVAFF=4;
                                                *Other;
   IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
    IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
   IF XTNEXREG = . THEN DELETE; /* RSG 02/2005 USE CACSMPL TO DELETE MISSING FIELDS*/
   IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 10/07/11
Added 10 and 11 */
   NXNS_COV = XINS_COV;
                                     /*JSO 04/26/2007 added for reservists logic*/
                                     /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
   IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
   IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
      NXNS_COV = 3;
      XENR_PCM = .;
   END;
                      /* Note: use tmp_cell in step2q.sas */
   LENGTH TMP_CELL XSERVREG 8;
   TMP_CELL = STRATUM; /*KRR 04/03/2006, changed from ADJ_CELL*/
   IF XTNEXREG = 1 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 1;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
      ELSE XSERVREG = 5;
   END;
   IF XTNEXREG = 2 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 6;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
      ELSE XSERVREG = 10;
   END;
   IF XTNEXREG = 3 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 11;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
      ELSE XSERVREG = 15;
    IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
      IF XOCONUS = 1 THEN DO;
                XSERVAFF = 1 THEN XSERVREG = 16;
         ELSE IF XSERVAFF = 2 THEN XSERVREG = 17;
         ELSE IF XSERVAFF = 3 THEN XSERVREG = 18;
         ELSE IF XSERVAFF = 4 THEN XSERVREG = 19;
         ELSE
                                   XSERVREG = 20;
      END;
```

```
IF XOCONUS = 2 THEN DO;
                XSERVAFF = 1 THEN XSERVREG = 21;
         ELSE IF XSERVAFF = 2 THEN XSERVREG = 22;
         ELSE IF XSERVAFF = 3 THEN XSERVREG = 23;
         ELSE IF XSERVAFF = 4 THEN XSERVREG = 24;
                                  XSERVREG = 25;
      END:
      IF XOCONUS = 3 THEN DO;
                XSERVAFF = 1 THEN XSERVREG = 26;
         TF
         ELSE IF XSERVAFF = 2 THEN XSERVREG = 27;
         ELSE IF XSERVAFF = 3 THEN XSERVREG = 28;
         ELSE IF XSERVAFF = 4 THEN XSERVREG = 29;
                                   XSERVREG = 30;
      END;
   END;
   IF XSERVREG = . THEN DELETE; /* MER 11/10/10 - Deletes records with imputed TNEXREG = '0' */
                                 /* MER 7/27/12 - New logic for handling out of catchment OCONUS */
   IF XCATCH = 9904 THEN DO;
      IF XSERVREG <=5 THEN XCATCH=9901;</pre>
      ELSE IF XSERVREG <=10 THEN XCATCH=9902;
      ELSE IF XSERVREG <=15 THEN XCATCH=9903;
      ELSE IF XSERVREG <= 20 THEN XCATCH=9905;
      ELSE IF XSERVREG <=25 THEN XCATCH=9906;
      ELSE IF XSERVREG <= 30 THEN XCATCH=9907;
   END:
RENAME XCATCH=CACSMPL;
   WRWT=&WGT;
RUN;
* create variable names for catchment area dummies ;
* create a file of catchment areas (UNIQUE) using the sort to drop;
  all duplicate catchment areas leaving one record per;
 unique catctment area code;
PROC SORT DATA=ENTIRE OUT=UNIQUE(KEEP=CACSMPL) NODUPKEY;
  BY CACSMPL;
RUN;
* create a file (FILEA) with catchment areas codes and a catchment;
  name consisting of "CAT" concatenated with a 4 digit number;
 created by ting of "CAT" concatenated with a 4 digit number;
DATA FILEA (RENAME=(CACSMPL=START SERIAL=LABEL));
  SET UNIQUE;
  SERIAL+1;
  LENGTH FMTNAME $7 DUMNAME $7;
  FMTNAME='CACLOOK';
  DUMNAME= 'CAT' | PUT(CACSMPL, Z4.);
RUN;
PROC PRINT DATA=FILEA;
    TITLE2 '1 record per catchment area (use this file to create a format)';
* create a format statement to be used to create CATINDX;
PROC FORMAT CNTLIN=FILEA; RUN;
* create an include file for a complete set of catchment areas.
* Write out to a file (CDUMFILE.INC) of the catchment dummy variables;
DATA NULL;
  SET FILEA END=EOF;
  FILE 'CDUMFILE.INC';
  IF _N_ = 1 THEN DO;
    PUT @10 "ARRAY CATDUMS(*) 4";
  END;
  PUT
         @15 DUMNAME $7.;
```

```
RUN;
*******************
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
\mbox{\scriptsize *} subsets. Create the region dummies. Recode region 7 to region 8.
******************************
DATA ENTIRE;
  SET ENTIRE;
  LENGTH DEFAULT = 4;
  IF FIELDAGE NE " " THEN DO; /*MJS 01/26/04*/
     AGE1824=0;
     AGE2534=0;
     AGE3544=0;
     AGE4554=0;
     AGE5564=0;
     AGE6574=0;
     AGE75UP=0;
            ( '018' <= FIELDAGE <= '024' ) THEN AGE1824=1; /*MJS 01/26/04*/
     ELSE IF ( '025' <= FIELDAGE <= '034' ) THEN AGE2534=1;
     ELSE IF ( '035' <= FIELDAGE <= '044' ) THEN AGE3544=1;
     ELSE IF ( '045' <= FIELDAGE <= '054' ) THEN AGE4554=1;
     ELSE IF ( '055' <= FIELDAGE <= '064' ) THEN AGE5564=1;
     ELSE IF ( '065' <= FIELDAGE <= '074' ) THEN AGE6574=1;
                    FIELDAGE > '074' ) THEN AGE75UP=1;
     ELSE IF (
  ********************
  * Create the FEMALE dummy variable.
  *************************
  IF XSEXA = 2 THEN
    FEMALE = 1;
    FEMALE = 0;
  * Create the beneficiary group/enrollment group subsets.
  GROUP1 = 0;
  GROUP2 = 0;
  GROUP3 = 0;
  GROUP4 = 0;
  GROIIP5 = 0;
  GROUP6 = 0;
  GROUP7 = 0;
              * EVERYONE;
  GROUP8 = 1;
  IF (NXNS_COV IN (1,2,6) AND H13004>=2) THEN GROUP1 = 1; IF (XENR_PCM IN (1,2,6) AND H13004>=2) THEN GROUP2 = 1;
  /* JSO 04/05/2007 conditions to run RC type */
  IF "&RCTYPE" = 'ReportCards' AND (XENR_PCM IN (3,7) AND H13004>=2) THEN GROUP3 = 1;
  ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND ((XENR_PCM IN (3,7) AND H13004>=2) OR NXNS_COV
IN (3,9,10)) THEN GROUP3 = 1;
  IF NXNS_COV IN (3,9,10)
                           THEN GROUP4 = 1; /*JSO 08/24/2006, Deleted 4,5*//*JSO 07/30/2007,
Added 9*/ /* MER 10/07/11 Added 10 */
  IF XBNFGRP = 1 OR DBENCAT IN('IGR', 'GRD') THEN GROUP5 = 1;
                                        /*JSO 07/30/2007, added DBENCAT conditions*/
  IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN GROUP6 = 1;
                                        /*JSO 07/30/2007, added DBENCAT conditions*/
  IF XBNFGRP IN (3,4)
                        THEN GROUP 7 = 1;
  ******************
  * Recode variables with Never, Sometimes, Usually and Always:
      Recode Never & Sometimes (1 & 2) to 1.
      Recode Usually (3) to 2.
      Recode Always (4) to 3.
  ************************
  IF H13007 = 1
                 THEN R13007 = 1;
  ELSE IF H13007 = 2 THEN R13007 = 1;
```

IF EOF THEN PUT @10 ";";

```
ELSE IF H13007 = 3 THEN R13007 = 2;
ELSE IF H13007 = 4 THEN R13007 = 3;
ELSE IF H13007 < 0 THEN R13007 = .;
IF H13010 = 1
                 THEN R13010 = 1;
ELSE IF H13010 = 2 THEN R13010 = 1;
ELSE IF H13010 = 3 THEN R13010 = 2;
ELSE IF H13010 = 4 THEN R13010 = 3;
ELSE IF H13010 < 0 THEN R13010 = .;
IF H13021 = 1
                  THEN R13021 = 1;
ELSE IF H13021 = 2 THEN R13021 = 1;
ELSE IF H13021 = 3 THEN R13021 = 2;
ELSE IF H13021 = 4 THEN R13021 = 3;
ELSE IF H13021 < 0 THEN R13021 = .;
IF H13022 = 1
                  THEN R13022 = 1;
ELSE IF H13022 = 2 THEN R13022 = 1;
ELSE IF H13022 = 3 THEN R13022 = 2;
ELSE IF H13022 = 4 THEN R13022 = 3;
ELSE IF H13022 < 0 THEN R13022 = .;
                  THEN R13023 = 1;
IF H13023 = 1
ELSE IF H13023 = 2 THEN R13023 = 1;
ELSE IF H13023 = 3 THEN R13023 = 2;
ELSE IF H13023 = 4 THEN R13023 = 3;
ELSE IF H13023 < 0 THEN R13023 = .;
IF H13024 = 1
                  THEN R13024 = 1;
ELSE IF H13024 = 2 THEN R13024 = 1;
ELSE IF H13024 = 3 THEN R13024 = 2;
ELSE IF H13024 = 4 THEN R13024 = 3;
ELSE IF H13024 < 0 THEN R13024 = .;
IF H13029 = 1
                 THEN R13029 = 1;
ELSE IF H13029 = 2 THEN R13029 = 1;
ELSE IF H13029 = 3 THEN R13029 = 2;
ELSE IF H13029 = 4 THEN R13029 = 3;
ELSE IF H13029 < 0 THEN R13029 = .;
IF H13033 = 1
                  THEN R13033 = 1;
ELSE IF H13033 = 2 THEN R13033 = 1;
ELSE IF H13033 = 3 THEN R13033 = 2;
ELSE IF H13033 = 4 THEN R13033 = 3;
ELSE IF H13033 < 0 THEN R13033 = .;
IF H13041 = 1
                 THEN R13041 = 1;
ELSE IF H13041 = 2 THEN R13041 = 1;
ELSE IF H13041 = 3 THEN R13041 = 2;
ELSE IF H13041 = 4 THEN R13041 = 3;
ELSE IF H13041 < 0 THEN R13041 = .;
IF H13042 = 1
                  THEN R13042 = 1;
ELSE IF H13042 = 2 THEN R13042 = 1;
ELSE IF H13042 = 3 THEN R13042 = 2;
ELSE IF H13042 = 4 THEN R13042 = 3;
ELSE IF H13042 < 0 THEN R13042 = .;
IF H13046 = 1
                  THEN R13046 = 1;
ELSE IF H13046 = 2 THEN R13046 = 1;
ELSE IF H13046 = 3 THEN R13046 = 2;
ELSE IF H13046 = 4 THEN R13046 = 3;
ELSE IF H13046 < 0 THEN R13046 = .;
IF H13047 = 1
                 THEN R13047 = 1;
ELSE IF H13047 = 2 THEN R13047 = 1;
ELSE IF H13047 = 3 THEN R13047 = 2;
ELSE IF H13047 = 4 THEN R13047 = 3;
ELSE IF H13047 < 0 THEN R13047 = .;
```

* Recode variables to one missing condition ".".

^{*} This also renames all the "HOxxxx" to "ROxxxx".

```
***********************
  R13027 = H13027; IF R13027 < 0 THEN R13027 = .;
  R13031 = H13031;
                    IF R13031 < 0 THEN R13031 = .;
  R13018 = H13018; IF R13018 < 0 THEN R13018 = .;
  R13048 = H13048; IF R13048 < 0 THEN R13048 = .;
  R13065 = H13065; IF R13065 < 0 THEN R13065 = .;
  *******************
   * Create region and service affiliation dummies.
   ************************
  IF XSERVREG NE . THEN DO; /*JSO 08/24/2006, Changed 16 to 24*/ /*MER 11/11/2012, Changed 24
to 30*/
     ARRAY REGDUMS (30) REG01 REG02 REG03 REG04 REG05 REG06
                        REG07 REG08 REG09 REG10 REG11 REG12
                        REG13 REG14 REG15 REG16 REG17 REG18
                        REG19 REG20 REG21 REG22 REG23 REG24
                        REG25 REG26 REG27 REG28 REG29 REG30;
     DO I = 1 TO 30;
        REGDUMS(I)=0;
      END;
              XSERVREG= 1 THEN REG01 =1;
     ΤF
     ELSE IF XSERVREG= 2 THEN REG02 =1;
     ELSE IF XSERVREG= 3 THEN REG03 =1;
ELSE IF XSERVREG= 4 THEN REG04 =1;
     ELSE IF XSERVREG= 5 THEN REG05 =1;
     ELSE IF XSERVREG= 6 THEN REG06 =1;
     ELSE IF XSERVREG= 7 THEN REG07 =1;
ELSE IF XSERVREG= 8 THEN REG08 =1;
     ELSE IF XSERVREG= 9 THEN REG09 =1;
     ELSE IF XSERVREG= 10 THEN REG10 =1;
     ELSE IF
              XSERVREG= 11 THEN REG11
                                       =1;
     ELSE IF XSERVREG= 12 THEN REG12 =1;
     ELSE IF XSERVREG= 13 THEN REG13 =1;
     ELSE IF XSERVREG= 14 THEN REG14 =1;
ELSE IF XSERVREG= 15 THEN REG15 =1;
     ELSE IF XSERVREG= 16 THEN REG16 =1;
     ELSE IF XSERVREG= 17 THEN REG17
                                      =1;
     ELSE IF
              XSERVREG= 18 THEN REG18
     ELSE IF XSERVREG= 19 THEN REG19 =1;
     ELSE IF XSERVREG= 20 THEN REG20 =1;
     ELSE IF XSERVREG= 21 THEN REG21 =1;
ELSE IF XSERVREG= 22 THEN REG22 =1;
     ELSE IF XSERVREG= 23 THEN REG23 =1;
     ELSE IF XSERVREG= 24 THEN REG24 =1;
     ELSE IF XSERVREG= 25 THEN REG25
                                       =1;
     ELSE IF XSERVREG= 26 THEN REG26
                                      =1;
     ELSE IF XSERVREG= 27 THEN REG27 =1;
     ELSE IF XSERVREG= 28 THEN REG28
ELSE IF XSERVREG= 29 THEN REG29
                                      =1;
                                       =1;
     ELSE IF XSERVREG= 30 THEN REG30 =1;
     ARRAY SRVDUMS (5) SRV01 SRV02 SRV03 SRV04 SRV05; /*MER 11/11/2012 Changed from 4 to 5*/
     DO I = 1 TO 5; /*Needed for consumer watch ONLY */
        SRVDUMS(I)=0;
     END;
     IF
              XSERVAFF = 1 THEN SRV01 = 1;
     ELSE IF XSERVAFF = 2 THEN SRV02 = 1;
     ELSE IF XSERVAFF = 3 THEN SRV03 = 1;
     ELSE IF XSERVAFF = 4 THEN SRV04 = 1;
     ELSE IF XSERVAFF = 5 THEN SRV05 = 1;
  END;
   * Create catchment dummies;
   *----;
   %INCLUDE 'CDUMFILE.INC'; * this is array statement;
  CATINDX = INPUT(PUT(CACSMPL, CACLOOK.), 3.);
  DO I = 1 TO DIM(CATDUMS);
    CATDUMS(I) = 0;
  END;
  CATDUMS (CATINDX)=1;
```

RUN;

```
* Recode item responses to proportional values using CONVERT.SAS.
%INCLUDE "CONVERT.SAS";
%CONT2(DSN=ENTIRE, NUM=4, Y=R13018 R13048 R13027 R13031);
%CONT3(DSN=ENTIRE, NUM=12, Y=R13007 R13010 R13029 R13033
                    R13021 R13022 R13023 R13024
                    R13041 R13042 R13046 R13047);
*************************
* Sort the main file to reorder it by MPRID.
PROC SORT DATA=ENTIRE; BY MPRID; RUN;
*************************
* Print the contents of ENTIRE dataset.
PROC CONTENTS DATA=ENTIRE;
 TITLE2 'Contents of ENTIRE';
*******************
* Print some of the recoded records.
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR MPRID
    FIELDAGE
            /*MJS 01/26/04*/
    XTNEXREG
    XSERVAFF
    XSERVREG
    USA
    ENBGSMPL
    XSEXA
    STRATUM
           /*KRR 04/03/2006 Changed from ADJ_CELL*/
    XINS_COV
    NXNS_COV /*JSO 04/26/2007, added for reservists logic*/
           /*JSO 04/26/2007, added for reservists logic*/
    DBENCAT
    XENR_PCM
    &WGT.
    ;
RUN;
*******************
* Print some of the recoded records.
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
           /*MJS 01/26/04*/
  VAR FIELDAGE
    AGE1824
    AGE2534
    AGE3544
    AGE4554
    AGE5564
    AGE6574
    AGE75UP
    XSEXA
    FEMALE
    ENBGSMPL
    XINS_COV
    NXNS_COV
    XENR PCM
    XBNFGRP
    GROUP1
    GROUP2
    GROUP3
    GROUP4
    GROUP5
```

```
GROUP6
       GROUP7
RUN;
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded question variables';
   VAR H13007 R13007
       H13010 R13010
       H13021 R13021
       H13022 R13022
       H13023 R13023
       H13024 R13024
       H13029 R13029
       H13033 R13033
       H13041 R13041
       H13042
               R13042
       H13046 R13046
       H13047 R13047
       H13018 R13018
       H13027 R13027
       H13031 R13031
       H13048 R13048
       H13065 R13065
RUN;
/*\mbox{JSO} 08/24/2006, Changed 16 to 24*/
/*MER 11/11/2012, Changed 24 to 30*/
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded REGION variables';
   VAR XSERVREG
       REG01
       REG02
       REG03
       REG04
       REG05
       REG06
       REG07
       REG08
       REG09
       REG10
       REG11
       REG12
       REG13
       REG14
       REG15
       REG16
       REG17
       REG18
       REG19
       REG20
       REG21
       REG22
       REG23
       REG24
       REG25
       REG26
       REG27
       REG28
       REG29
       REG30;
RUN;
/*MER 11/03/2012 Changed 4 to 5*/
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded service affiliation variables';
   VAR XSERVREG
       XSERVAFF
       XOCONUS /*JSO 08/24/2006, Changed Overseas Regions*/
       SRV01
       SRV02
```

```
SRV03
      SRV04
      SRV05
RUN;
proc freq data=entire;
table xservreg*cacsmpl/noprint out=temp;
proc sort; by cacsmpl count;
data out.xservind(keep=cacsmpl xservind);
set temp; by cacsmpl;
if last.cacsmpl;
if xservreg in (16,17,18,19,20) then xservreg=16;
else if xservreg in (21,22,23,24,25) then xservreg=17;
else if xservreg in (26,27,28,29,30) then xservreg=18;
rename xservreg=xservind;
proc sort data=entire;
by cacsmpl;
data entire;
merge entire out.xservind; by cacsmpl;
******************
* Create the 7 subgroups for processing by STEP2.SAS.
*****************************
DATA OUT.GROUP1
    OUT.GROUP2
    OUT.GROUP3
    OUT.GROUP4
    OUT.GROUP5
    OUT.GROUP6
    OUT.GROUP7
    OUT.GROUP8;
    SET ENTIRE;
    DROP
       н13007
       H13010
       H13021
       H13022
       H13023
       H13024
       H13029
       H13033
       H13041
       H13042
       H13046
       н13047
       H13018
       H13027
       H13031
       H13048
       H13065
     IF GROUP1 = 1 THEN OUTPUT OUT.GROUP1;
     IF GROUP2 = 1 THEN OUTPUT OUT.GROUP2;
     IF GROUP3 = 1 THEN OUTPUT OUT.GROUP3;
     IF GROUP4 = 1 THEN OUTPUT OUT.GROUP4;
     IF GROUP5 = 1 THEN OUTPUT OUT.GROUP5;
     IF GROUP6 = 1 THEN OUTPUT OUT.GROUP6;
     IF GROUP7 = 1 THEN OUTPUT OUT.GROUP7;
     OUTPUT OUT.GROUP8;
RUN;
```

G.9.B ReportCards\CAHPS_Adult2013\Convert.SAS - Convert Item Responses To Proportional Values.

```
*******************
* PROGRAM: CONVERT.SAS
* TASK: DOD HEALTH CARE SURVEY ANALYSIS (8687-330)

* PURPOSE: CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES FOR CONSISTENCY
          WITH THE TOPS SURVEY.
* WRITTEN: October 2000 BY ERIC SCHONE
* MODIFIED: October 2000 BY KEITH RATHBUN, Added PROLOG. Also, added DSN
          to argument lists.
* INPUTS: 1) User-specified SAS Dataset
* OUTPUTS: 1) User-specified SAS Dataset with recoded values
* NOTES:
^{\star} 1) Arguments for the CONT1-CONT3 macros are as follows:
    a) SAS dataset name (dsn)
    b) Number of variables to be converted (num)
    c) List of variables to be converted (y)
^{\star} 2) These macros assume that the response items have already been
    converted/recoded to CAHPS scales.
************************
* CONT1 - Convert big problem, small problem, not a problem questions to
        proportional values.
%macro cont1(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i = 1 to #
     if vars(i) ne . and vars(i) ne 3 then vars(i) = 0;
     if vars(i) = 3 then vars(i) = 1;
  end;
run;
%mend cont1;
************************
* CONT2 - Convert rating questions to proportional values.
%macro cont2(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to #
     if vars(i) ne . and vars(i) < 8 then vars(i) = 0;
     if vars(i) in (8,9,10) then vars(i) = 1;
  end;
run;
%mend cont2;
*************************
* CONT3 - Convert Never, Sometimes, Usually, Always questions to
        proportional values.
%macro cont3(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to #
    if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
     vars(i) = vars(i) - 1;
  end;
run;
%mend cont3;
```

G.9.C ReportCards\CAHPS_Adult2013\STEP2.SAS - Calculate CAHPS Adjusted Scores - Annual.

```
/* Project: DoD - 2004 Adult Report Cards
/* Program: STEP2Q.SAS
/* Purpose: Draft Adult Report Card
/* Requires program STEP1.SAS to have been run
/* Programming specifications for adult report card
/* The adult report card contains a large number of
/* risk-adjusted scores. Some scores are
   calculated from responses to individual survey questions.
/* Composite scores are calculated by
/* combining scores from individual questions.
   The scores then are compared with external civilian
/*
   benchmarks. The programming tasks involved in building
   the report card are:
/*
        1) preparing data for analyses
/*
        2)
             estimating risk adjustment models
        3)
            calculating risk-adjusted values and variances
/*
            calculating benchmarks
        4)
/*
            comparing risk-adjusted values to benchmarks
             and hypothesis testing
/*
/*
   Modified: 1) December 2001 By Mike Scott: Updated parameters for 2000 survey,
/*
                added V612 to support SUDAAN with Version 8 SAS, changed STRATUM to
/*
                TMP_CELL, and changed INTERCEP to INTERCEPT to support Version 8 SAS.
/*
             2) January 2003 By Keith Rathbun: Added output files for SKELCAT and
                SKELREG (No longer permanent datasets... only needed by this program).
             3) January 2004 By Mike Scott: Updated for 2003 survey.
             4) February 2005 By Regina Gramss: Updated for 2004 survey
                changed codes to use XSERVREG for region. Changed field
                names to use macro for year change.
                Adjustments were made By Eric Schone because of catchment
                areas lining up to multiple regions.
             5) January 2006 By Regina Gramss: Updated for 2005 survey.
             6) October 2006 By Keith Rathbun: Updated to accomodate the Overseas
                reporting updates done by Justin Oh in the quarterly version.
/* /* /* /* /* /* /*
             7) November 9, 2007 By Keith Rathbun: Updated parameters for
                the 2007 survey.
             8) October 28, 2008 By Mike Rudacille: Updated parameters for
                the 2008 survey.
             9) October 6, 2009 by Emma Ernst: Updated paramters for 2009 survey
            10) September 7, 2010 By Mike Rudacille: Updated parameters for
            11) October 7, 2011 By Mike Rudacille: Updated parameters for the 2011 survey.
/*
            12) August 6, 2012 By Amanda Kudis: Updated parameters for 2012 survey.
            13) November 11, 2012 by Mike Rudacille, updated for handling of
/*
                Joint Service facilities
/* SUBGROUPS
                            Definitions
/*
                                                                Reg or Catch Macro
     Seven subgroups
/*
                         XINS_COV IN(1,2,6) AND H08007>=4

XENR_PCM IN(1,2,6) AND H08007>=4

XENR_PCM = 3 AND H08007>=4

XINS_COV_IN(3)
/* 1. Prime enrollees
                                                                Catchment
                                                                               SCORE1
/* 2. Enrollees w/mil PCM
                                                                Catchment
                                                                               SCORE1
                                                                Region
/* 3. Enrollees w/civ PCM
                                                                               SCORE 2
/* 4. Nonenrollees
                             XINS_COV IN(3)
                                                                Region
                                                                              SCORE 2
/* 5. Active duty
                             XBNFGRP=1
                                                                Catchment
                                                                              SCORE 1
/* 6. Active duty dependents XBNFGRP=2
                                                                Region
                                                                              SCORE 2
/* 7. Retirees and dependents XBNFGRP IN (3,4)
                                                                               SCORE 2
                                                                Region
/* PREV PGM: STEP1.SAS
/* NEXT PGM: COMPOSIT.SAS
/************************************
OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP STIMER COMPRESS=YES;
LIBNAME IN1 "DATA";
         OUT "DATA";
LIBNAME
LIBNAME OUT2 "DATA\ADULTHATFILES";
*- set the parameters here
```

```
* set the number of Dependent variables to process;
* One does not need to start at 1, but the max must be >= min;
%LET MIN_VAR = 1;
%LET MAX VAR = 16;
* set the number of subgroups to process;
%LET MIN GRP = 1;
%LET MAX_GRP = 8;
*******************
* These are expected to remain the same for a particular dependent
* variable run.
*************************
%LET WGT = CFWT;
%LET IND_VAR1 = R13065;
%LET IND_VAR2 = ; * FEMALE;
%LET IND_VAR3 = ; * SREDHIGH;
%LET DEBUGFLG = 0; * Set to 1 if you want extra printout;
%LET TITL1 = Prime Enrollees;
%LET TITL2 = Enrollees w/military PCM;
%LET TITL3 = Enrollees w/civilian PCM;
%LET TITL4 = Nonenrollees;
%LET TITL5 = Active Duty;
%LET TITL6 = Active Duty Dependents;
%LET TITL7 = Retirees and Dependents;
%LET TITL8 = All Beneficiaries;
************************
* GETTING NEEDED CARE
*************************
/*10/6/09 ERE not using 2008 version of question 11 and 29 anymore*/
%LET DEPVAR1 = R13029;
%LET DEPVAR2 = R13033;
*************************
* GETTING NEEDED CARE QUICKLY.
******************************
/*10/6/09 ERE not using 2008 version of question 17 and 30 anymore*/
%LET DEPVAR3 = R13010;
%LET DEPVAR4 = R13007;
******************
* HOW WELL DOCTORS COMMUNICATE.
%LET DEPVAR5= R13021;
%LET DEPVAR6= R13022;
%LET DEPVAR7= R13023;
%LET DEPVAR8= R13024;
* COURTEOUS AND HELPFUL OFFICE STAFF.
/*10/6/09 ERE this section is not in the 2009 v4 questionaire*/
* CUSTOMER SERVICE.
%LET DEPVAR9 = R13041;
%LET DEPVAR10 = R13042;
*************************
* CLAIMS PROCESSING.
***************************
%LET DEPVAR11 = R13046;
%LET DEPVAR12 = R13047;
*******************
* RATING ALL HEALTH CARE: 0 - 10.
*************************
%LET DEPVAR13 = R13018;
```

```
* RATING OF HEALTH PLAN: 0 - 10.
%LET DEPVAR14 = R13048;
* RATING OF PERSONAL DR: 0 - 10.
******************************
%LET DEPVAR15 = R13027;
*************************
* SPECIALITY CARE: 0 - 10.
%LET DEPVAR16 = R13031;
proc freq data=in1.group8; /*MJS 01/23/04 Changed data set*/
 tables cacsmpl /missing list out=skelcat(keep=cacsmpl);
data skelcat;
  set skelcat;
  if cacsmpl = " " then delete;
/*RSG 02/2005 - put in hard code for skelreg vs. doing freq on data
            since xservreg is not in data and must be coded*/
/* MER 11/11/2012, Changed from 24 to 30 Regions */
DATA SKELREG;
  INPUT XSERVREG;
  DATALINES;
    1
    2
    3
    4
    5
    6
    7
    8
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    20
    21
    22
    23
    24
    25
    2.6
    27
    28
    29
    30
RUN;
%MACRO SCORE1;
*****************************
    use this macro for groups 1, 2 & 5 *; catchment variables are to be used *;
     catchment variables are to be used
%PUT STARTING MACRO SCORE1;
```

```
%PUT "GROUP = " GROUP&IGRP;
%PUT "TITLE = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND VAR1 = " &IND VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
           = " &WGT;
%PUT "WGT
%PUT *********************************
* If the current group is 1 use the skeleton files;
* else used the previous groups output file;
* The mrgfile is added to by each subgroup;
*-----;
%LET CMRGFILE = OUT.C_&&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET CMRGFILE = SKELCAT;
* run regression using the catchment level variables;
 output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model on catchment areas";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    WEIGHT &WGT;
     %INCLUDE 'REGRSCAT.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP CELL
                      PRED&IGRP RESID&IGRP CACSMPL XSERVREG &&DEPVAR&IVAR)
             P = PRED&IGRP
             R = RESID&IGRP;
RUN;
* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
       TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with PRED&IGRP and RESID&IGRP";
       TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
       VAR MPRID XSERVREG CACSMPL &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
  RUN;
   PROC PRINT DATA=BETAS;
        TITLE2 "BETAS: file with coefficients";
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
%END;
*-- get the standard err/variance;
*____;
%LET DEP = &&DEPVAR&IVAR;
%C_SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);
* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
                     * CREATED IN THE MACRO MAKE_DAT;
    SET MEANFILE;
    IF _N_ = 1 THEN SET BETAS(DROP = _TYPE_);
    %INCLUDE 'RISKARRY.INC';
     %INCLUDE 'RISKMEAN.INC';
    DO I = 1 TO DIM(COEFFS);
      IF COEFFS(I) = . THEN COEFFS(I) = 0;
      IF MEANS(I) = . THEN MEANS(I) = 0;
      ADJUST + ( COEFFS(I) * MEANS(I) );
    END;
    ADJUST = ADJUST + INTERCEPT;
RIIN;
%IF &DEBUGFLG > 0 %THEN %DO;
```

```
PROC PRINT DATA=ADJUST;
       TITLE2 'Print of ADJUST';
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
%END;
* add the catchment coefficients to the adjusted value from above;
* output one record per catchment area with the catchment;
* level adjusted scores;
DATA COEFFCAC(KEEP=CATAREA NEWADJST);
  SET ADJUST;
   %INCLUDE 'CATARRAY.INC';
  LENGTH NAME $8;
  DO I=1 TO DIM(CATRHS);
    CALL VNAME(CATRHS(I), NAME);
     CATAREA=INPUT(SUBSTR(NAME, 4, 4), 4.);
    IF CATRHS(I) = . THEN CATRHS(I) = 0;
    NEWADJST=ADJUST + CATRHS(I);
     OUTPUT;
   END;
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=COEFFCAC;
         TITLE2 'COEFFCAC: Catchment Area Adjusted Scores';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
%END;
* sum of wgts per catchment areas;
 * attach the region id to the output file so;
 * so we can create wgts for each region later;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
       XSERVind ; * important ;
  TD
   CLASS CACSMPL ;
  VAR &WGT;
   OUTPUT OUT=CAT_WGTS(RENAME=(CACSMPL=CATAREA)) N=CATCNT SUM=CATWGT;
* merge the Coeffcac file with the catchment;
* adjusted scores to the catchment level weight;
* merge by the catchment area. creates a;
* catchment level file with catchment weights;
DATA COEFFCAC;
  MERGE COEFFCAC(IN=IN1)
        CAT_WGTS(IN=IN2 KEEP=CATAREA XSERVind CATWGT CATCNT);
  BY CATAREA;
  IF IN1;
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=CAT_WGTS(OBS=70);
         TITLE2 'CAT_WGTS: Catchment Area Sum of WGTS';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
   PROC PRINT DATA=COEFFCAC(OBS=70);
         TITLE2 'Catchment Area Adjusted Scores - with sum of wgts and region';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
%END;
* merge the previous groups catchment results (if any);
* with the catchment level std err and the catchment;
* level results from the current groups and dependent var;
```

```
%PUT "&CMRGFILE: " &CMRGFILE;
DATA OUT.C_&&DEPVAR&IVAR(RENAME=(NEWADJST=ADJ&IGRP));
    MERGE &CMRGFILE(IN=INS)
         C&IGRP&&DEPVAR&IVAR
          COEFFCAC(RENAME=(CATAREA=CACSMPL CATWGT=CATWGT&IGRP CATCNT=CATCNT&IGRP));
    BY CACSMPL;
    DEPENDNT = "&&DEPVAR&IVAR";
    IF INS;
RIIN;
PROC PRINT DATA=OUT.C_&&DEPVAR&IVAR;
    TITLE2 "Print of Catchment variables in C_&&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RIIN;
%MEND SCORE1;
%MACRO SCORE2;
 ************
 * use this macro for groups 3, 4, 6, 7;
* region variables are to be used
 ******************************
%PUT STARTING MACRO SCORE2;
%PUT "GROUP = " GROUP&IGRP;
 %PUT "TITLE
              = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND_VAR1 = " &IND_VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
%PUT "WGT
           = " &WGT;
%LET RMRGFILE = OUT.R_&&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET RMRGFILE = SKELREG;
* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model for GROUP&igrp for regions";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    WEIGHT &WGT;
    %INCLUDE 'REGRSREG.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP CELL
                     PRED&IGRP RESID&IGRP CACSMPL XSERVREG &&DEPVAR&IVAR)
            P = PRED&IGRP
            R = RESID&IGRP;
RUN;
* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
        TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with predicted values and the RESID&IGRP";
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
        VAR MPRID XSERVREG CACSMPL &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
   RIIN;
   PROC PRINT DATA=BETAS;
        TITLE2 "BETAS: file with coefficients";
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
%END;
*____;
*---- get the standard err/variance ----;
```

```
%LET DEP = &&DEPVAR&IVAR;
%R_SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);
* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
   SET MEANFILE;
   IF _N_ = 1 THEN SET BETAS(DROP = _TYPE_);
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';
    DO I = 1 TO DIM(COEFFS);
       IF COEFFS(I) = . THEN COEFFS(I) = 0;
       IF MEANS(I) = . THEN MEANS(I) = 0;
       ADJUST + ( COEFFS(I) * MEANS(I) );
    ADJUST = ADJUST + INTERCEPT;
* add the region coefficients to the adjusted value from above;
* output one record per region with the region;
* level adjusted scores;
DATA COEFFREG(KEEP=XSERVREG NEWADJST);
    SET ADJUST;
    %INCLUDE 'REGARRAY.INC';
   LENGTH NAME $8;
   DO I=1 TO DIM(REGRHS);
       CALL VNAME(REGRHS(I), NAME);
       XSERVREG=INPUT(SUBSTR(NAME, 4, 2), 2.);
       IF REGRHS(I) = . THEN REGRHS(I) = 0;
       NEWADJST=ADJUST + REGRHS(I);
      OUTPUT;
    END;
RUN;
* sum of wgts for each region;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
  CLASS XSERVREG;
  VAR &WGT;
  OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT SUM=REGWGT;
* merge the COEFFREG file with the region;
* adjusted scores to the region level total weight;
* merge by the region. Creates a region level;
* file with the total sample weight of the region;
DATA COEFFREG;
      MERGE COEFFREG(IN=IN1)
            REG_WGTS(IN=IN2
                             KEEP=XSERVREG REGCNT REGWGT);
      BY XSERVREG;
      IF IN1;
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
    PROC PRINT DATA=MEANFILE;
         TITLE2 'Print of MEANFILE';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    RUN;
    PROC PRINT DATA=ADJUST;
         TITLE2 'Print of ADJUST';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    PROC PRINT DATA=COEFFREG;
         TITLE2 'Print of COEFFREG: Region Adjusted Scores';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
```

```
RUN;
   PROC PRINT DATA=REG_WGTS;
        TITLE2 'Print of REG_WGTS: Region Area Sum of WGTS';
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
   PROC PRINT DATA=COEFFREG;
        TITLE2 'Print of COEFFREG: Regions Adjusted Scores - with sum of wgts and region';
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
%END;
* Calculate region level adjusted scores from the;
* region level adjusted scores in COEFFREG;
/*PROC MEANS DATA=COEFFREG NWAY NOPRINT;
 WEIGHT REGWGT;
 CLASS XSERVREG;
        NEWADJST;
 OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
*/
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=REGFILE1;
        TITLE2 'Print of REGFILE1: Region Scores';
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
%END;
* merge the previous groups regional results (if any);
* with the region level std err and the region;
* level results from the current group/dependent var;
%PUT "&RMRGFILE: " &RMRGFILE;
DATA OUT.R_&&DEPVAR&IVAR;
   MERGE &RMRGFILE(IN=INS)
                                /*{\tt KRR} - removed perm dataset ref to OUT2 */
         R&IGRP&&DEPVAR&IVAR
         coeffreg(rename=(newadjst=adj&igrp));
   BY XSERVREG;
   RENAME REGCNT = REGCNT&IGRP;
   RENAME REGWGT = REGWGT&IGRP;
   DEPENDNT = "&&DEPVAR&IVAR";
   IF INS;
RIIN;
PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
    TITLE2 "Print of REGION variables in &&DEPVAR&IVAR";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;
%MEND SCORE2;
%MACRO MAKE INC;
 ************
 * creates include files for later Procs;
 * Needs to be run each time. Called
 * in the outer (beneficiary loop).
 * I chose this method because it was
 * clearer(to me at least).
 * This macro needs to be run once per
 * Dep var per subgroup.
           ************
* Drop records where the dependent var is missing;
* Drop records with missing catchment or region values;
```

```
DATA GROUP&IGRP;
       SET IN1.GROUP&IGRP;
       IF &&DEPVAR&IVAR NOT = .;
 RUN;
DATA _NULL_;
      SET GROUP&IGRP END = EOF;
      IF &&DEPVAR&IVAR NOT = .;
      ARRAY AGECNT(7) 8 aCNT1 - aCNT7;
      RETAIN AGECNT 0;
      RETAIN CNT 0;
      ARRAY AGENAM(7) $8 AGENAM1 - AGENAM7;
      ARRAY AGENAMX(7) $8 AGENAMX1 - AGENAMX7;
      RETAIN AGENAM;
      RETAIN AGENAMX;
      ARRAY CATCNT(9998) 8 CCNT0001 - CCNT9998;
ARRAY REGCNT(30) 8 REGCNT01 - REGCNT30; *KRR 10/24/2006 - Changed from 16 to 24; *MER
11/11/2012, Changed from 24 to 30;
      RETAIN CATCNT 0;
      RETAIN REGCNT 0;
      * create a name array for the age dummies;
      IF _N_ = 1 THEN DO;
         AGENAM(1) = "AGE1824";
         AGENAM(2) = "AGE2534";
         AGENAM(3) = "AGE3544";
         AGENAM(4) = "AGE4554";
         AGENAM(5) = "AGE5564";
         AGENAM(6) = "AGE6574";
         AGENAM(7) = "AGE75UP";
      END;
      * total record count;
      CNT + 1;
      * count records in each age group;
      * we will use only age groups with more;
      * than 2 obs;
      IF AGE1824 = 1 THEN AGECNT(1) + 1;
      IF AGE2534 = 1 THEN AGECNT(2) + 1;
      IF AGE3544 = 1 THEN AGECNT(3) + 1;
      IF AGE4554 = 1 THEN AGECNT(4) + 1;
      IF AGE5564 = 1 THEN AGECNT(5) + 1;
      IF AGE6574 = 1 THEN AGECNT(6) + 1;
      IF AGE75UP = 1 THEN AGECNT(7) + 1;
      * count records in each catchment group;
      * we will only use catchment areas ;
      * with more than than 2 obs;
      * I am using the catchment area as the subscript;
      * to make the code simpler and more readable;
      IF CACSMPL >= 1 AND CACSMPL <= 9998 THEN DO;
         CATCNT(CACSMPL) = CATCNT(CACSMPL) + 1;
      END;
      * count records in each REGION group;
      * we will only use REGIONS ;
      * with more than than 2 obs;
      * I am using the region value as the subscript;
      * to make the code simpler and more readable;
      IF XSERVREG >= 1 AND XSERVREG <= 30 THEN DO; *KRR 10/24/2006 - Changed from 16 to 24; *MER
11/11/12 24 to 30;
         REGCNT(XSERVREG) = REGCNT(XSERVREG) + 1;
      END;
      IF EOF THEN GOTO ENDFILE;
      RETURN;
```

```
ENDFILE:
     * create a title common to all procs in the current group;
     TITLE " &&DEPVAR&IVAR &&TITL&IGRP";
     * display counts in the log;
     %IF &DEBUGFLG > 0 %THEN %DO;
        PUT ' ';
        PUT 'AT EOF: ';
        PUT "TOTAL CNT = "
                             CNT;
       PUT AGENAM(2) " AGECNT(2)=;
PUT AGENAM(4) " " AGECNT(4)=;
        PUT AGENAM(5) " " AGECNT(5)=;
        PUT AGENAM(6) " " AGECNT(6)=;
        PUT AGENAM(7) " " AGECNT(7)=;
        PUT " ";
        DO I = 1 TO 30; *KRR 10/24/2006 - Changed from 16 to 24; *MER 11/11/12 24 to 30;
           IF(REGCNT(I) > 0) THEN DO;
             PUT 'REG' I Z2. REGCNT(I) 6.;
        END;
        PUT ' ';
        DO I = 1 \text{ TO } 9998;
           IF(CATCNT(I) > 0) THEN DO;
PUT 'CAT' I Z4. CATCNT(I) 6.;
        END:
        PUT ' ';
            *** of debug test;
     %END;
     * create an include file for the regression model;
     * it is inconvient, but SAS requires that the;
     * include file start after a complete statement;
     * i.e. after a semicolon;
     * This include is for the regression using catchment areas;
     FILE 'REGRSCAT.INC';
     PUT @6 "MODEL &&DEPVAR&IVAR = ";
     IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
     IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
     IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */
     CNT2 = 0;
     * setup an array of those age groups that have > 1 obs;
     DO I = 1 TO 7;
        IF AGECNT(I) > 1 THEN DO;
           CNT2 +1;
           AGENAMX(CNT2) = AGENAM(I);
       END;
     END;
     * drop the last category to create;
     * an omitted category which is required;
     * to solve the regression properly;
     DO I = 1 TO CNT2-1;
       PUT @12 AGENAMX(I);
     END;
     * ditto for the catchment areas with > 0 obs;
     * in this case we drop the last non-zero cnt;
     * this is not consistent with Portias code which;
     * unintentionally omitted several catchment area codes;
     LAST_REC = 0;
     DO I = 1 \text{ TO } 9998;
       IF CATCNT(I) > 0 THEN LAST_REC = I;
     END;
     * skip the last cacsmpl with > 1 obs;
     DO I = 1 TO LAST_REC-1;
```

```
IF CATCNT(I) > 0 THEN DO;
     PUT @12 'CAT' I Z4.;
   END;
END;
PUT @11 ';';
* This include is for the regression using regions;
* in this case we drop the last REGION;
FILE 'REGRSREG.INC';
PUT @6 "MODEL &&DEPVAR&IVAR = ";
IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */ IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */
CNT2 = 0;
* setup an array of those age groups that have > 1 obs;
DO I = 1 TO 7;
   IF AGECNT(I) > 1 THEN DO;
     CNT2 +1;
     AGENAMX(CNT2) = AGENAM(I);
  END;
END;
* now drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;
* ditto for the catchment areas with > 0 obs;
* in this case we drop the the first USABLE category;
* this is not consistent with the catchment area code;
* but this is the method that Portia used;
IF REGCNT(I) > 0 THEN DO;
     IF FIRST = 1 THEN PUT @12 'REG' I Z2.;
     FIRST = 1;
  END;
END;
PUT @11 ';';
*----;
* now create the complete var statement;
* for the Proc MEANS used to replace the;
* independent variables missing values;
* we assume the age groups will always be used;
* These are also called the RISK FACTORS;
FILE 'RISKVARS.INC';
PUT @10 "VAR";
DO I = 1 TO CNT2;
  PUT @12 AGENAMX(I);
* not all the other dependent variables will be used;
* only write them out if they are not null;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR1";
END;
IF "&IND_VAR2" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR2";
END;
IF "&IND_VAR3" NE "" THEN DO;
   CNT3 + 1;
```

```
PUT @12 "&IND_VAR3";
END;
PUT @11 ';';
 * create an ARRAY statement of the desired risk factors;
 * called adjusters in the specs and in the code;
FILE 'RISKARRY.INC';
 PUT @10 "ARRAY COEFFS(*) $8";
DO I = 1 TO CNT2;
  PUT @12 AGENAMX(I);
END;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
    CNT3 + 1;
   PUT @12 "&IND_VAR1";
END;
 IF "&IND_VAR2" NE "" THEN DO;
    CNT3 + 1;
   PUT @12 "&IND_VAR2";
 END;
IF "&IND_VAR3" NE "" THEN DO;
    CNT3 + 1;
    PUT @12 "&IND_VAR3";
 END;
PUT @11 ';';
 *----;
 * create an ARRAY of mean names for the output;
 * from a proc MEANS of the Risk Factors in RISKARRY;
FILE 'RISKMEAN.INC';
IND_CNT = CNT2 + CNT3;
 PUT @6 "ARRAY MEANS(*) $8";
DO I = 1 TO IND_CNT;
  PUT @12 "MEAN" I Z2.;
END;
PUT @11 ';';
create the equivalent of the following statement;
FILE 'MEANFILE.INC';
PUT @6 "OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = ";
DO I = 1 TO IND_CNT;
  PUT @12 "MEAN" I Z2.;
END;
PUT @11 ';';
 *----;
 * create a catchment area array for all catchment areas;
 * with 1+ obs.
 * the missing value = 9999 was dropped in STEP1; ** rlc 4/29/00;
FILE 'CATARRAY.INC';
PUT @10 "ARRAY CATRHS(*) $8";
                      *** rlc 4/29/00 changed "9999" to "9998";
DO I = 1 TO 9998;
  IF CATCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
     PUT @16 'CAT' I Z4.;
  END;
END;
PUT @11 ';';
 *----;
 * create a region area array;
 * with at least ONE obs;
FILE 'REGARRAY.INC';
PUT @10 "ARRAY REGRHS(*) $8";
DO I = 1 TO 30; *KRR 10/24/2006 - Changed from 16 to 24; *MER 11/11/12 24 to 30;
   IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
```

```
PUT @16 'REG' I Z2.;
       END;
    END;
    PUT @11 ';';
 file print;
RUN;
* Create the means of the adjuster variables;
 * They will be used to replace missing adjuster variables;
 * calculate weighted means;
PROC MEANS DATA=group&igrp;
  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
   RUN;
DATA GROUP&IGRP;
    SET GROUP&IGRP;
    IF _N_ = 1 THEN SET MEANFILE;
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';
    DO I = 1 TO DIM(COEFFS);
      IF COEFFS(I) = . THEN DO;
        COEFFS(I) = MEANS(I);
       END;
    END;
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=MEANFILE;
       TITLE2 "Print of MEANFILE for Risk Adjuster variables";
       TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;
%MEND MAKE_INC;
%MACRO R_SUDAAN(INFILE);
 *************************************
 * use this macro to create standard err (variances);
 * FOR: REGIONS
 %PUT STARTING MACRO R_SUDAAN (REGIONS);
DATA &INFILE;
  SET &INFILE;
  IF XSERVREG > 0;
RIIN;
* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
  BY TMP_CELL;
RUN;
%IF &DEBUGFLG > 5 %THEN %DO;
  PROC PRINT DATA=&INFILE(OBS=5);
       TITLE2 'Print of the input file to SUDAAN (REGION)';
       TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RIIN;
%END;
```

```
* Calculate values for regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / missunit;
  VAR RESID&IGRP;
  TABLES XSERVREG;
  SUBGROUP XSERVREG;
  LEVELS 30; *KRR 10/24/2006 - Changed from 16 to 24; *MER 11/11/12 24 to 30;
  OUTPUT SEMEAN
        / TABLECELL=DEFAULT REPLACE
         FILENAME=RS&DEP;
  RUN;
  DATA R&IGRP&&DEPVAR&IVAR;
       SET RS&DEP;
       KEEP XSERVREG SEMEAN;
       IF SEMEAN NE .;
       RENAME SEMEAN = SEMEAN&IGRP;
  RUN;
  PROC PRINT DATA=R&IGRP&&DEPVAR&IVAR;
     TITLE2 "Print REGION DESCRIPT DATA=R&IGRP&&DEPVAR&IVAR";
     TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%MEND R_SUDAAN;
%MACRO C_SUDAAN(INFILE);
 * use this macro to create standard err (variances);
* FOR: CATCHMENT AREAS
%PUT STARTING MACRO C_SUDAAN (CATCHMENT);
%PUT ***********************************;
DATA &INFILE;
  SET &INFILE;
  IF CACSMPL > 0;
RUN;
* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
  BY TMP_CELL;
RUN;
%IF &DEBUGFLG > 5 %THEN %DO;
  PROC PRINT DATA=&INFILE(OBS=5);
       TITLE2 'Print of the input file to SUDAAN for CATCHMENT';
       TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;
* Calculate values for regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / missunit;
  VAR RESID&IGRP;
  TABLES CACSMPL;
  SUBGROUP CACSMPL;
  LEVELS 9998;
  OUTPUT SEMEAN
       / TABLECELL=DEFAULT REPLACE
         FILENAME=CS&DEP;
  RUN;
```

```
DATA C&IGRP&&DEPVAR&IVAR;
       SET CS&DEP;
       IF SEMEAN NE .;
       KEEP CACSMPL SEMEAN;
       RENAME SEMEAN = SEMEAN&IGRP;
  RUN;
  PROC PRINT DATA=C&IGRP&&DEPVAR&IVAR;
    TITLE2 "Print CATCHMENT DESCRIPT DATA=C&IGRP&&DEPVAR&IVAR";
     TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
%MEND C_SUDAAN;
%* call the macros;
%MACRO MAINLOOP(MIN_VAR, MAX_VAR, MIN_GRP, MAX_GRP);
   %* loop over the set of dependent variables;
     %DO IVAR = &MIN_VAR %TO &MAX_VAR;
         %DO IGRP = &MIN_GRP %TO &MAX_GRP;
           %MAKE_INC;
           %IF &IGRP = 1 OR &IGRP = 2 OR &IGRP = 5 or &igrp = 8 %THEN %do;
              %SCORE1;
              %SCORE2; %end;
           %ELSE
              %SCORE2;
         %END;
      %END;
%MEND;
%MAINLOOP(&MIN_VAR,&MAX_VAR,&MIN_GRP,&MAX_GRP);
```

G-205

$G.9.D \quad Report Cards \\ \ CAHPS_Adult 2013 \\ \ REGRSREG. INC-Include file 1 in step 2. sas.$

```
MODEL R13031 =
     R13065
     AGE1824
     AGE2534
     AGE3544
     AGE4554
     REG02
     REG03
     REG04
     REG05
     REG06
     REG07
     REG08
     REG09
     REG11
     REG12
     REG13
     REG14
     REG16
     REG17
     REG18
     REG19
     REG21
     REG22
     REG23
     REG24
     REG26
     REG28
     REG29
```

$G.9.E \quad Report Cards \backslash CAHPS_Adult 2013 \backslash RISKARRY. INC - Include file 2 in step 2. sas.$

```
ARRAY COEFFS(*) $8
AGE1824
AGE2534
AGE3544
AGE4554
AGE5564
R13065
;
```

$G.9.F \quad Report Cards \\ \ CAHPS_Adult 2013 \\ \ RISKMEAN.INC - Include file 3 in step 2. sas.$

```
ARRAY MEANS(*) $8
MEAN01
MEAN02
MEAN03
MEAN04
MEAN05
MEAN06
;
```

$G.9.G \quad Report Cards \\ \ CAHPS_Adult 2013 \\ \ REGARRAY.INC - Include file 4 in step 2. sas.$

```
ARRAY REGRHS(*) $8
      REG01
      REG02
      REG03
      REG04
      REG05
      REG06
      REG07
      REG08
      REG09
      REG11
      REG12
      REG13
      REG14
      REG16
      REG17
      REG18
      REG19
      REG21
      REG22
      REG23
      REG24
      REG26
      REG28
      REG29
```

$G.9. H \quad Report Cards \setminus CAHPS_Adult 2013 \setminus RISKVARS. INC - Include file 5 in step 2. sas.$

VAR
 AGE1824
 AGE2534
 AGE3544
 AGE4554
 AGE5564
 R13065
;

G.9.I ReportCards\CAHPS_Adult2013\MEANFILE.INC - Include file6 in step2.sas.

G.9.J ReportCards\CAHPS_Adult2013\COMPOSIT.SAS - Calculate CAHPS Composite Scores - Annual.

```
*******************
* Project: DoD - Quarterly Adult Report Cards
* Program: COMPOSIT.SAS
* Purpose: Generate Quarterly Adult Report Card composite scores
* Requires: Programs STEP1Q.SAS and STEP2Q.SAS must be run prior
           to this program.
* Modified: 1) 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
              accommodate the move of ALLSCORE.SAS functionality into the
              STEP2Q.SAS program.
           2) 01/08/2002 By Daniele Beahm, Changed versions in libname statements
              so program can be run with SAS v8 and still produce SAS v612 datasets.
           3) 04/10/2002 By Mike Scott, Updated variable names for 2002
           4) 02/04/2004 By Mike Scott, Updated for the 2003 Annual Report.
           5) 02/2004 By Regina Gramss, Updated for 2004 Annual Report. Added
              in conditions to avoid exponential of negative numbers. In case
              of negative trend, error list is printed out - composit.lst file
              should be evaluated (search for "ERROR") to make sure number of
              obs is less than 30 for those with negative trend (field: tv).
           6) 01/2006 By Regina Gramss, updated for 2005.
           7) 10/2006 By Keith Rathbun, updated for 2006. Use FWRWT.
           8) 10/6/09 by Emma Ernst, updated for 2009 database. Use annual weights
           9) 09/07/10 by Mike Rudacille, updated for 2010 database. Use annual weights
          10) 10/07/11 by Mike Rudacille, updated for 2011 database. Use annual weights
          11) 08/06/12 by Amanda Kudis, updated for 2012 database.
          12) 08/01/13 by Amanda Kudis, updated for 2013 database.
OPTIONS NOCENTER NOFMTERR LS=132 PS=78 SOURCE SOURCE2 NOOVP COMPRESS=YES;
libname in "data";
libname in2 "data\adulthatfiles";
libname out "data";
%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,QCOUNT=);
 DATA _NULL_;
  %IF "&TYPE" = "R" %THEN %DO;
      CALL SYMPUT ('BYVAR', 'XSERVREG');
   %END; %ELSE
  %IF "&TYPE" = "C" %THEN %DO;
      CALL SYMPUT ('BYVAR', 'CACSMPL');
   %END;
 ************
 * Create a Composite Score
 *************
DATA _NULL_;
    FILE 'FILES.INC';
    PUT @6 'SET';
    IF "&VAR1" NE '' THEN PUT @8 "IN.&TYPE._&VAR1";
    IF "&VAR2" NE '' THEN PUT @8 "IN.&TYPE._&VAR2";
    IF "&VAR3" NE '' THEN PUT @8 "IN.&TYPE._&VAR3";
    IF "&VAR4" NE '' THEN PUT @8 "IN.&TYPE._&VAR4";
    PUT @8 ';';
RUN;
DATA COMPOS&COMPOS;
     LENGTH DEPENDNT $ 8;
     %INCLUDE 'FILES.INC';
     DEPENDNT = "&TYPE.COMPOS&COMPOS";
RUN;
 PROC SORT DATA=COMPOS&COMPOS;
     BY &BYVAR;
RIIN;
PROC PRINT DATA=COMPOS&COMPOS(OBS=60);
     TITLE "Print of COMPOS&COMPOS after sort";
```

```
RUN;
 DATA COMPOS&COMPOS;
      SET COMPOS&COMPOS;
      BY &BYVAR;
   %IF "&TYPE" = "R" %THEN %DO;
       ARRAY N(*) REGCNT1 - REGCNT8;
       ARRAY W(*) REGWGT1 - REGWGT8;
       ARRAY TN(*) TOTCNT1 - TOTCNT8;
       ARRAY TW(*) TOTWGT1 - TOTWGT8;
   %END; %ELSE
   %IF "&TYPE" = "C" %THEN %DO;
       ARRAY N(*) CATCNT1 - CATCNT8;
ARRAY W(*) CATWGT1 - CATWGT8;
       ARRAY TN(*) TOTCNT1 - TOTCNT8;
       ARRAY TW(*) TOTWGT1 - TOTWGT8;
   %END;
                       ADJ1 - ADJ8;
      ARRAY ADJ(*)
      ARRAY TOTADJ(*) TOTADJ1 - TOTADJ8;
      ARRAY AVGADJ(*) AVJADJ1 - AVJADJ8;
      RETAIN TOTADJ TN TW;
      RETAIN AVGADJ;
      IF FIRST.&BYVAR THEN DO;
         DO I = 1 TO DIM(TOTADJ);
            \texttt{TOTADJ(I)} = \texttt{0;} \; \texttt{TN(I)=0;} \; \texttt{TW(I)=0;}
         END;
      END; DROP I;
      PUT ' ';
      PUT ' --- STARTING LOOP1: ' &BYVAR=;
      DO I = 1 TO DIM(TOTADJ);
         PUT I= ADJ(I)=;
         IF ADJ(I) NE . THEN DO;
            TOTADJ(I) = TOTADJ(I) + ADJ(I);
            TN(I)=TN(I)+N(I);
            TW(I) = TW(I) + W(I);
         END;
         PUT I= ADJ(I)= TOTADJ(I)=;
      END;
      PUT ' ';
      PUT ' --- STARTING LOOP2: ' &BYVAR=;
      IF LAST. & BYVAR THEN DO;
         DO I = 1 TO DIM(TOTADJ);
            PUT I= ADJ(I)= TOTADJ(I)= AVGADJ(I)=;
            AVGADJ(I) = TOTADJ(I)/&QCOUNT;
            adj(i)=avgadj(i);
            N(I) = TN(I) / & OCOUNT;
            W(I) = TW(I) / \&QCOUNT;
         END;
         OUTPUT;
      END;
RUN;
%do i=1 %to 8;
/* Collect Standard Errors and residuals from variables in composite */
%if &type=R|(\&i=1|\&i=2|\&i=5|\&i=8) %then %do;
  %if &var1~= %then %do;
   %let n=r_&var1;
   %let m=s_&var1;
   data s_&var1(rename=(semean&i=s_&var1));
   set in.&type._&var1(keep=semean&i &byvar);
   proc sort; by &byvar;
   data r_&var1;
   set in2.h&i.&var1(rename=(resid&i=r_&var1));
   proc sort data=r_&var1; by mprid;
```

```
%if &var2~= %then %do;
   %let n=%str(&n r_&var2);
   %let m=%str(&m s_&var2);
  data s_&var2(rename=(semean&i=s_&var2));
   set in.&type._&var2(keep=semean&i &byvar);
   proc sort; by &byvar;
  data r_&var2;
   set in2.h&i.&var2(rename=(resid&i=r_&var2));
  proc sort data=r_&var2; by mprid;
  %end;
  %if &var3~= %then %do;
  %let n=%str(&n r_&var3);
   data s_&var3(rename=(semean&i=s_&var3));
   set in.&type._&var3(keep=semean&i &byvar);
   proc sort; by &byvar;
   data r_&var3;
   set in2.h&i.&var3(rename=(resid&i=r_&var3));
  proc sort data=r_&var3; by mprid;
   %let m=%str(&m s_&var3); %end;
  %if &var4~= %then %do;
   %let n=%str(&n r_&var4);
   data s_&var4(rename=(semean&i=s_&var4));
   set in.&type._&var4(keep=semean&i &byvar);
   proc sort; by &byvar;
   data r_&var4;
   set in2.h&i.&var4(rename=(resid&i=r_&var4));
   %let m=%str(&m s_&var4);
  proc sort data=r_&var4; by mprid;
  %end;
/* Merge residual files and estimate correlations */
 data infile;
 merge &n; by mprid;
 proc sort; by &byvar;
 proc corr outp=outf noprint;
 by &byvar;
 var &n;
 weight cfwt;
 data outf;
 set outf; by &byvar;
 where _type_='CORR';
/* sum standard error of a row variable times correlation times standard error of each column
variable, then sum sums and take square root, divide by number of variables */
  data final;
 merge &m outf; by &byvar;
 data final;
 set final; by &byvar;
 array r_val &n;
 array s_val &m;
 sde=0;
  do i=1 to dim(s_val);
  %do j=1 %to &gcount;
   if upcase(_name_) = upcase("R_&&var&j") then
   sde=sum(sde,r_val(i)*s_&&var&j*s_val(i));
   %end;
  end;
 run;
 data sefin&compos._&i errd;
  set final; by &byvar;
  if first.&byvar then tv=0;
  t.v+sde;
  if last.&byvar then do;
/**RSG 02/2005 Changed to only do exponential if tv value is non-negative -
   those with negative trend is set aside to print out and determine whether from
   nonmissing data of 30 or more*/
```

```
if tv \ge 0 then sde&i=(tv**.5)/&qcount;
  else if tv <= 0 then do;
   output errd;
   sde&i=.;
  end;
  output sefin&compos._&i;
 end;
 run;
/**RSG 02/2005 Count how many nonmissing values are in the trend dataa
  to determine if negative trend is something to be concerned about*/
 proc means data=infile noprint;
 by &byvar;
 var &n;
 output out=missing (drop=_type_ _freq_) n=;
 data errd2;
 merge errd(in=a drop=&n) missing (in=b);
 by &byvar;
 if a;
 run;
 proc print data=errd2;
 var &byvar tv &n;
title "ERROR: NEGATIVE TREND FOR &N IN GROUP=&I. AND COMPOSE=&COMPOS";
 run;
title ' '; /*RSG 02/2005 blank out title for next loop*/
 %if &i=1 %then %do;
  data sefin&compos;
  set sefin&compos._1(keep=&byvar sde&i); by &byvar;
  rename sde&i=semean&i;
  run;
  %end;
  %else %do;
  data sefin&compos;
  merge sefin&compos sefin&compos._&i(keep=&byvar sde&i); by &byvar;
  rename sde&i=semean&i;
  run;
 %end;
%end;
%end;
data out. & type.compos & compos;
merge compos&compos sefin&compos; by &byvar;
PROC PRINT DATA=OUT.&TYPE.COMPOS&COMPOS;
     TITLE1 COMPTITL;
RUN;
%MEND COMPOSIT;
*____;
      set the parameters here
*----;
*************
* call the macro for each composite;
************
                                     /*MJS 02/04/04*/
%COMPOSIT (type=R,compos=1,var1=R13029,var2=R13033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R13007,var2=R13010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R13021,var2=R13022,var3=R13023,var4=R13024,qcount=4);
%COMPOSIT (type=R,compos=4,var1=R13041,var2=R13042,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R13046,var2=R13047,qcount=2);
%COMPOSIT (type=C,compos=1,var1=R13029,var2=R13033,qcount=2);
%COMPOSIT (type=C,compos=2,var1=R13007,var2=R13010,qcount=2);
%COMPOSIT (type=C,compos=3,var1=R13021,var2=R13022,var3=R13023,var4=R13024,qcount=4);
%COMPOSIT (type=C,compos=4,var1=R13041,var2=R13042,qcount=2);
%COMPOSIT (type=C,compos=5,var1=R13046,var2=R13047,qcount=2);
```

G.9.K ReportCards\CAHPS_Adult2013\FILES.INC - Include file in composit.sas.

SET IN.C_R13046 IN.C_R13047 ;

G.10.A LOADWEB\LOADCAHP.SAS - Convert CAHPS Scores into WEB layout - Annual.

```
*******************
* PROGRAM: LOADCAHP.SAS
 TASK:
          2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
 PURPOSE: Convert the CAHPS Scores Database into the WEB layout
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
* MODIFIED: 1) 01/28/2002 BY KEITH RATHBUN, Updated to support the 2000 survey.
          2) 01/07/2003 BY KEITH RATHBUN, Updated to support the 2002 survey.
          3) 02/06/2004 BY MIKE SCOTT, Updated for the 2003 Annual Report.
                     BY REGINA GRAMSS, Updated for 2004 Annual Report. Change
          4) 02/2005
                     region variable to XSERVREG
          5) 11/01/2006 BY KEITH RATHBUN, Updated for 2006 Annual Report.
          6) 11/09/2007 BY KEITH RATHBUN, Updated for 2007 Annual Report.
          7) 10/29/2008 BY MIKE RUDACILLE, Updated for 2008 Annual Report.
          8) 10/6/09 by Emma Ernst, updated for 2009 annual report.
          9) 09/07/10 by Mike Rudacille, updated for 2010 annual report.
         10) 10/07/11 by Mike Rudacille, updated for 2011 annual report.
         11) 08/01/11 by Amanda Kudis, updated for 2012 annual report.
* INPUTS:
         1) CAHPS Individual and Composite data sets with adjusted scores
* OUTPUT: 1) LOADCAHP.sas7bdat - Combined CAHPS Scores Database in WEB layout
 INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
            and composite data sets
* NOTES:
* 1) The following steps need to be run prior to this program:
    - STEP1.SAS - Recode questions and generate group files
    - STEP2.SAS - Calculate individual adjusted scores for group 1-8
   - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
* 2) The output file (LOADCAHP.sas7bdat) will be run through the
    MAKEHTML.SAS program to generate the WEB pages.
************************
* Assign data libraries and options
LIBNAME IN "..\REPORTCARDS\CAHPS_ADULT2013\DATA";
LIBNAME OUT ".";
LIBNAME LIBRARY "..\..\DATA\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER NOFMTERR;
* Load Format definitions for CAHPS Individual and composite data sets.
%INCLUDE "LOADCAHQ.INC";
*****************
************************
* Process Macro Input Parameters:
* 1) QUESTION = Variable Question Name (DSN).
   - For individual Questions it is the variable name
    - For composite Questions it is called xCOMPOSn
    where n = a predefined composite # and
         x = R (Region) or C (Catchment)
* 2) TYPE = Type of Score (COMPOSITE or INDIVIDUAL)
* 3) REGCAT = Region/Catchment Area
********************
*********************
%MACRO PROCESS(QUESTION=,TYPE=,REGCAT=);
*****************
* Assign value for BENTYPE composite year
```

```
%LET YEAR = 2013;
* Assign prefix for weighted/unweighted count variables.
* Unweighted counts are REGCNTn or CATCNTn where n=group number.
\mbox{\ensuremath{^{\star}}} Weighted counts are REGWGTn or CATWGTn where n=group number.
*************************
%IF "&REGCAT" = "Region" %THEN %DO;
  %LET PREFIX = REG;
%END;
%ELSE %IF "&REGCAT" = "Catchment" %THEN %DO;
   %LET PREFIX = CAT;
%END;
%ELSE %DO;
  %PUT "ERROR: Invalid Type = &TYPE";
********************
* Convert the CAHPS individual Scores Record into WEB layout.
* There are 8 logical records (adjusted scores) per physical record:
    Adjusted Score
                           Definitions
    Group Number
* 1. Prime enrollees XINS_COV IN (1,2,6) AND H08007>=2

* 2. Enrollees w/mil PCM XENR_PCM IN (1,2,6) AND H08007>=2

* 3. Enrollees w/civ PCM XENR_PCM = 3 AND H08007>=2

* 4. Nonenrollees XINS_COV IN (1,2,6) AND H08007>=2
* 4. Nonenrollees
                           XINS_COV IN (3)
* 5. Active duty
                           BFGROUPP=1
* 6. Active duty dependents BFGROUPP=2
* 7. Retirees and dependents BFGROUPP IN (3,4)
* 8. All beneficiaries
                           All beneficiaries
************************
DATA &QUESTION;
  SET IN. & QUESTION;
  LENGTH MAJGRP $30;
   LENGTH REGION $30; /*RSG 02/2005 Increased length to accommodate new region*/
   LENGTH REGCAT $42;
                      **MER 11/11/2012 - Changed REGION to be large enough for Joint Services;
   LENGTH BENTYPE $50;
   LENGTH BENEFIT $34;
  LENGTH TIMEPD $5; /*RSG 02/2005*/
   ************************
   * Assign Region;
   *********************
   %IF &REGCAT = Region %THEN %DO;
      REGION = PUT(XSERVREG, SERVREGF.);
   %ELSE %IF &REGCAT = Catchment %THEN %DO;
      REGION = PUT(XSERVIND, SERVREGo.);
   %END;
   ************************
   * Assign benefit and benefit type;
   **********************
   IF "&TYPE" = "INDIVIDUAL" THEN DO;
     IF DEPENDNT IN("R13018", "R13048", "R13027", "R13031") THEN
        BENTYPE = "Composite";
           BENTYPE = PUT(DEPENDNT, $BENTYPF.);
     BENEFIT = PUT(DEPENDNT, $BENEF.);
     TIMEPD = "&YEAR";
   ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
     BENTYPE = "Composite"; ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR, $BENTYPF.);
     BENEFIT = PUT(DEPENDNT, $BENEF.);
     TIMEPD = "&YEAR";
   ELSE PUT "ERROR: Invalid TYPE = &TYPE";
```

```
* For now, Initialize Significance test to zero.;
SIG = 0;
*************************
* Assign Region/Catchment Area;
****************************
%IF &REGCAT = Region %THEN %DO;
 REGCAT = PUT(XSERVREG, SERVREGF.);
%END;
%ELSE %IF &REGCAT = Catchment %THEN %DO;
 REGCAT = PUT(CACSMPL,CACR.);
%END;
%ELSE %DO;
 PUT "ERROR: Invalid REGCAT = &REGCAT";
%END;
* 1 = Prime Enrollees ;
               **************
MAJGRP = PUT(1,MAJGRPF.);
SCORE = ADJ1;
SEMEAN = SEMEAN1;
N_OBS = &PREFIX.CNT1;
N WGT = &PREFIX.WGT1;
OUTPUT;
***********************
* 2 = Enrollees with military PCM ;
MAJGRP = PUT(2, MAJGRPF.);
SCORE = ADJ2;
SEMEAN = SEMEAN2;
N_OBS = &PREFIX.CNT2;
N WGT = &PREFIX.WGT2;
OUTPUT:
***********************
* 3 = Enrollees with civilian PCM ;
**********************
%IF &REGCAT = Region %THEN %DO;
 MAJGRP = PUT(3,MAJGRPF.);
 SCORE = ADJ3;
 SEMEAN = SEMEAN3;
 N OBS = &PREFIX.CNT3;
 N_WGT = &PREFIX.WGT3;
 OUTPUT;
%END;
***********************
* 4 = Non-enrolled beneficiaries ;
%IF &REGCAT = Region %THEN %DO;
 MAJGRP = PUT(4,MAJGRPF.);
 SCORE = ADJ4;
 SEMEAN = SEMEAN4;
 N_OBS = &PREFIX.CNT4;
 N_WGT = &PREFIX.WGT4;
 OUTPUT;
%END;
* 5 = Active duty;
*******************
MAJGRP = PUT(5,MAJGRPF.);
SCORE = ADJ5;
SEMEAN = SEMEAN5;
N_OBS = &PREFIX.CNT5;
N_WGT = &PREFIX.WGT5;
OUTPUT;
************************
* 6 = Active duty dependents;
                  *****************************
%IF &REGCAT = Region %THEN %DO;
 MAJGRP = PUT(6,MAJGRPF.);
 SCORE = ADJ6;
 SEMEAN = SEMEAN6;
 N_OBS = &PREFIX.CNT6;
 N_WGT = &PREFIX.WGT6;
```

```
OUTPUT;
  %END;
         ***********************
  * 7 = Retirees and dependents;
  *************************
  %IF &REGCAT = Region %THEN %DO;
    MAJGRP = PUT(7,MAJGRPF.);
    SCORE = ADJ7;
    SEMEAN = SEMEAN7;
    N_OBS = &PREFIX.CNT7;
    N_WGT = &PREFIX.WGT7;
    OUTPUT;
  ***********************
  * 8 = All Beneficiaries ;
  MAJGRP = PUT(8,MAJGRPF.);
  SCORE = ADJ8;
  SEMEAN = SEMEAN8;
  N_OBS = &PREFIX.CNT8;
  N_WGT = \&PREFIX.WGT8;
  OUTPUT;
KEEP MAJGRP
   REGION
   REGCAT
    BENTYPE
   BENEFIT
   TIMEPD
    SCORE
    SEMEAN
   N OBS
   N_WGT
   SIG
RUN;
%MEND;
*******************************
* COMPOSITE # 1.;
* GETTING NEEDED CARE VARIABLES.;
*************************
%PROCESS(QUESTION=RCOMPOS1,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R13029, TYPE=INDIVIDUAL, REGCAT=Region);
%PROCESS(QUESTION=R_R13033,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=CCOMPOS1,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R13029,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(OUESTION=C R13033,TYPE=INDIVIDUAL,REGCAT=Catchment);
*************************
* COMPOSITE # 2.;
* GETTING CARE QUICKLY VARIABLES.;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R13007,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R13010,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=CCOMPOS2,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R13007,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R13010,TYPE=INDIVIDUAL,REGCAT=Catchment);
*******************************
* COMPOSITE # 3.;
* HOW WELL DOCTORS COMMUNICATE.;
**************************
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R13021,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R13022,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R13023,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R13024,TYPE=INDIVIDUAL,REGCAT=Region);
```

```
%PROCESS(QUESTION=CCOMPOS3,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R13021,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R13022, TYPE=INDIVIDUAL, REGCAT=Catchment);
%PROCESS(QUESTION=C_R13023,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R13024,TYPE=INDIVIDUAL,REGCAT=Catchment);
*************************
* COMPOSITE # .;
* COURTEOUS AND HELPFUL OFFICE STAFF.;
*************************
************************
* COMPOSITE # 4.;
* CUSTOMER SERVICE.;
**************************
%PROCESS(QUESTION=RCOMPOS4, TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R13041,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R13042,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=CCOMPOS4,TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R13041,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R13042,TYPE=INDIVIDUAL,REGCAT=Catchment);
* COMPOSITE # 5.;
* CLAIMS PROCESSING.;
*************************
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE, REGCAT=Region);
%PROCESS(QUESTION=R_R13046,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=R_R13047, TYPE=INDIVIDUAL, REGCAT=Region);
%PROCESS(QUESTION=CCOMPOS5, TYPE=COMPOSITE, REGCAT=Catchment);
%PROCESS(QUESTION=C_R13046,TYPE=INDIVIDUAL,REGCAT=Catchment);
%PROCESS(QUESTION=C_R13047,TYPE=INDIVIDUAL,REGCAT=Catchment);
*************************
* INDIVIDUAL # 1.;
* RATING OF ALL HEALTH CARE: 0 - 10.;
%PROCESS(QUESTION=R_R13018,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(QUESTION=C_R13018,TYPE=INDIVIDUAL,REGCAT=Catchment);
************************
* INDIVIDUAL # 2.;
* RATING OF HEALTH PLAN: 0 - 10.;
*************************
%PROCESS(QUESTION=R_R13048,TYPE=INDIVIDUAL,REGCAT=Region)
%PROCESS(OUESTION=C R13048, TYPE=INDIVIDUAL, REGCAT=Catchment)
************************
* INDIVIDUAL # 3.;
* RATING OF PERSONAL DOCTOR: 0 - 10.;
%PROCESS(QUESTION=R_R13027, TYPE=INDIVIDUAL, REGCAT=Region);
%PROCESS(QUESTION=C_R13027,TYPE=INDIVIDUAL,REGCAT=Catchment);
*************************
* INDIVIDUAL # 4.;
* SPECIALTY CARE: 0 - 10.;
%PROCESS(QUESTION=R_R13031,TYPE=INDIVIDUAL,REGCAT=Region);
%PROCESS(OUESTION=C R13031,TYPE=INDIVIDUAL,REGCAT=Catchment);
*****************************
******************************
* STACK up all of the files into one final output dataset.;
******************************
DATA OUT.LOADCAHP;
  SET R_R13029 C_R13029
     R_R13033 C_R13033
```

```
R_R13007 C_R13007
       R_R13010 C_R13010
       R_R13021 C_R13021
       R_R13022 C_R13022
       R_R13023 C_R13023
       R_R13024 C_R13024
       R_R13041 C_R13041
       R_R13042 C_R13042
       R_R13046 C_R13046
       R_R13047 C_R13047
       R_R13018 C_R13018
       R_R13048 C_R13048
      R_R13027 C_R13027
R_R13031 C_R13031
       RCOMPOS1 CCOMPOS1
       RCOMPOS2 CCOMPOS2
       RCOMPOS3 CCOMPOS3
       RCOMPOS4 CCOMPOS4
       RCOMPOS5 CCOMPOS5
    IF SCORE = . THEN DELETE;
RUN;
TITLE1 "2013 DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: LOADCAHP.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHP.sas7bdat - Combined CAHPS Scores Database in WEB layout";
PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
      /MISSING LIST;
RUN;
```

G.10.B LOADWEB\LOADCAHQ.INC - Format definitions for converting the Scores Database into the WEB layout - Annual.

```
* PROGRAM: LOADCAHQ.INC
 TASK:
           QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
 PURPOSE:
           Format definitions for converting the CAHPS Scores Database
           into the WEB layout.
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.INC.
 MODIFIED: 1) 08/13/2001 BY KEITH RATHBUN, Added XSERVAFF format to
              accommodate the short reports.
           2) 01/24/2002 BY KEITH RATHBUN, Added BENTYPF = 1998,1999,2000
              added catchment composites.
           3) 04/10/2002 BY KEITH RATHBUN, Added parameters for 2002 survey.
           4) 04/03/2003 BY MIKE SCOTT, Added parameters for 2003 survey.
           5) 07/08/2003 BY MIKE SCOTT, Added formats GETNCARE, GETCAREQ,
              CRTSHELP, HOWWELL, CUSTSERV, CLMSPROC, and PREVCARE.
           6) 03/22/2004 BY KEITH RATHBUN, Added parameters for 2004 survey.
              Changed R04031 to be "Wait Less than 15 Minutes For Appointment".
           7) 05/06/2004 BY MIKE SCOTT, Changed R04031 back to 2003 version of
              the label ("Wait More than 15 Minutes Past Appointment") so that
              the Q1 2004 version of the question is consistent with past
              versions. The label will be changed to the new version ("Waiting
               in the Doctor's Office") in Makehtmq.sas.
           8) 02/2006 BY REGINA GRAMSS, Changed date format to fielding dates.
           9) 03/21/2006 BY KEITH RATHBUN, Added parameters for 2006 survey.
          10) 08/22/2006 BY JUSTIN OH, Changed SERVREGF format for Overseas.
          11) 12/15/2006 BY JUSTIN OH, Added parameters for 2007 survey.
          12) 02/02/2007 BY JUSTIN OH, Added "s" in Healthy Behaviors in VALUE BEN.
          13) 01/10/2008 BY KEITH RATHBUN, Added parameters for 2008 survey.
          14) 01/09/2009 BY MIKE RUDACILLE, Added parameters for 2009 survey.
          14) 01/16/2009 BY MIKE RUDACILLE, Changed CONUS to USA.
          15) 04/11/2009 by Mike Rudacille - Changed formats to reflect
               modifications to beneficiary reports necessary for V4
          16) 12/17/09 by Emma Ernst, Added parameters for 2010 survey.
          17) 12/02/10 by Mike Rudacille, Added parameters for 2011 survey.
              Also removed 2000 parameters for space considerations.
          18) 12/10/11 by Mike Rudacille, Added parameters for 2012 survey.
              Also removed 2002 parameters for space considerations.
           19) 11/03/12 by Mike Rudacille, Updated for handling of
              Joint Service facilities
           20) 12/27/12 by Aimee Valenzuela, Added parameters for 2013 survey.
 INPUTS:
           No direct input
 OUTPUT:
           No direct output
           1) Under the new contract (8860), the survey year was changed
 NOTES:
              to be based on the year the survey is administered (2002)
              as opposed to the questioning reference frame (2001).
              include file contains variable names for both the 2001
              survey administration year and the the 2002 administration
              year surveys.
* FORMAT Definitions
*************************
PROC FORMAT;
   VALUE MAJGRPF
     1 = "Prime Enrollees
     2 = "Enrollees with Military PCM"
     3 = "Enrollees with Civilian PCM"
     4 = "Non-enrolled Beneficiaries "
     5 = "Active Duty
     6 = "Active Duty Dependents
      7 = "Retirees and Dependents
```

```
8 = "All Beneficiaries
  VALUE XSERVAFF
     1 = "ARMY"
     2 = "AIR FORCE"
     3 = "NAVY"
     4 = "OTHER"
     5 = "JOINT SERVICE"
  VALUE REGIONF
     0 = "USA MHS "
     1 = "North"
     2 = "South"
     3 = "West"
     4 = "Overseas"
/*JSO 08/24/2006, Changed Overseas to Service for Europe, Pacific, Latin*/
  VALUE SERVREGF
     1 = "North Army"
     2 = "North Air Force"
     3 = "North Navy"
     4 = "North Other"
     5 = "North Joint Service"
     6 = "South Army"
     7 = "South Air Force"
     8 = "South Navy"
     9 = "South Other"
     10 = "South Joint Service"
     11 = "West Army"
     12 = "West Air Force"
    13 = "West Navy"
    14 = "West Other"
     15 = "West Joint Service"
     16 = "Europe Army"
     17 = "Europe Air Force"
     18 = "Europe Navy"
     19 = "Europe Other"
     20 = "Europe Joint Service"
     21 = "Pacific Army"
     22 = "Pacific Air Force"
     23 = "Pacific Navy"
     24 = "Pacific Other"
     25 = "Pacific Joint Service"
     26 = "Latin America Army"
     27 = "Latin America Air Force"
     28 = "Latin America Navy"
     29 = "Latin America Other"
     30 = "Latin America Joint Service"
     31 = "USA ARMY"
     32 = "USA AIR FORCE"
     33 = "USA NAVY"
     34 = "USA OTHER";
/*JSO 08/24/2006, Changed Overseas to Europe, Pacific, Latin*/
  VALUE SERVREGO
     1 = "North Army"
     2 = "North Air Force"
     3 = "North Navy"
     4 = "North Other"
     5 = "North Joint Service"
     6 = "South Army"
     7 = "South Air Force"
     8 = "South Navy"
     9 = "South Other"
     10 = "South Joint Service"
     11 = "West Army"
    12 = "West Air Force"
    13 = "West Navy"
     14 = "West Other"
    15 = "West Joint Service"
     16 = "Overseas Europe"
     17 = "Overseas Pacific"
```

```
18 = "Overseas Latin America";
  VALUE $BENTYPF
   "2004 Q2 " = "April, 2003 to March, 2004
   "2004 Q3 " = "Quarter 3, CY 2004
   "2004 Q4 " = "Quarter 4, CY 2004
   "2005 Q1 " = "January, 2005
   "2005 Q2 " = "April, 2005
   "2005 Q3 " = "July, 2005
   "2005 Q4 " = "October, 2005
   "2006 Q1 " = "January, 2006
   "2006 Q2 " = "April, 2006
   "2006 Q3 " = "July, 2006
   "2006 Q4 " = "October, 2006
   "2007 Q1 " = "January, 2007
   "2007 Q2 " = "April, 2007
   "2007 Q3 " = "July, 2007
   "2007 Q4 " = "October, 2007
   "2008 Q1 " = "January, 2008
   "2008 Q2 " = "April, 2008
   "2008 Q3 " = "July, 2008
   "2008 Q4 " = "October, 2008
   "2009 Q1 " = "January, 2009
   "2009 Q2 " = "April, 2009
   "2009 Q3 " = "July, 2009
   "2009 Q4 " = "October, 2009
   "2010 Q1 " = "January, 2010
   "2010 Q2 " = "April, 2010
   "2010 Q3 " = "July, 2010
   "2010 Q4 " = "October, 2010
   "2011 Q1 " = "January, 2011
   "2011 Q2 " = "April, 2011
   "2011 Q3 " = "July, 2011
   "2011 Q4 " = "October, 2011
   "2012 Q1 " = "January, 2012
   "2012 Q2 " = "April, 2012
   "2012 Q3 " = "July, 2012
   "2012 Q4 " = "October, 2012
   "2013 Q1 " = "January, 2013
   "2013 Q2 " = "April, 2013
   "2013 Q3 " = "July, 2013
   "2013 Q4 " = "October, 2013
/************************************
  /* Admin. Year Defn.
   /* 2004
               2005
                     2006 2007 2008 2009 2010 2011
2013
"R04013", "R05013", "R06013", "R07013", "R08013", "R09029", "R10029", "R11029", "R12029",
"R13029" = "Getting to See a Specialist
   "R04028", "R05027", "R06027", "R07027", "R08027", "R09033", "R10033", "R11033", "R12033",
"R13033" = "Getting Treatment
   "R04020", "R05019", "R06019", "R07019", "R08019", "R09007", "R10007", "R11007", "R12007",
"R13007" = "Wait for Urgent Care" "
"R04023", "R05022", "R06022", "R07022", "R08022", "R09010", "R10010", "R11010", "R12010",
"R13010" = "Wait for Routine Visit
   "R04034", "R05033", "R06033", "R07033", "R08033", "R09021", "R10021", "R11021", "R12021",
"R13021" = "Listens Carefully
   "R04035", "R05034", "R06034", "R07034", "R08034", "R09022", "R10022", "R11022", "R12022",
"R13022" = "Explains so You Can Understand
   "R04036", "R05035", "R06035", "R07035", "R08035", "R09023", "R10023", "R11023", "R12023",
"R13023" = "Shows Respect
   "R04037", "R05036", "R06036", "R07036", "R08036", "R09024", "R10024", "R11024", "R12024",
"R13024" = "Spends Time with You
   "R04045", "R05043", "R06043", "R07043", "R08043", "R09040", "R10040", "R11041", "R12041",
"R13041" = "Getting Information
   "R04047", "R05045", "R06045", "R07045", "R08045", "R09041", "R10041", "R11042", "R12042",
```

"R13042" = "Courteous Customer Service

```
"R04041", "R05040", "R06040", "R07040", "R08040", "R09045", "R10045", "R11046", "R12046",
"R13046" = "Claims Handled in a Reasonable Time"
    "R04042", "R05041", "R06041", "R07041", "R08041", "R09046", "R10046", "R11047", "R12047",
"R13047" = "Claims Handled Correctly
    "R04038", "R05037", "R06037", "R07037", "R08037", "R09018", "R10018", "R11018", "R12018",
"R13018" = "Health Care
    "R04054", "R05048", "R06048", "R07048", "R08048", "R09047", "R10047", "R11048", "R12048",
"R13048" = "Health Plan
   "R04009", "R05009", "R06009", "R07009", "R08009", "R09027", "R10027", "R11027", "R12027",
"R13027" = "Primary Care Manager
   "R04015", "R05015", "R06015", "R07015", "R08015", "R09031", "R10031", "R11031", "R12031",
"R13031" = "Specialty Care
                             "PHYSIC " = "Physical
                             "MENTAL " = "Mental
  VALUE SBENEF
    "RCOMPOS1", "CCOMPOS1", "R04013", "R04028",
                           "R05013", "R05027",
                           "R06013", "R06027",
                           "R07013", "R07027",
                           "R08013", "R08027",
                           "R09029", "R09033",
                           "R10029", "R10033",
                           "R11029", "R11033",
                           "R12029", "R12033",
                           "R13029","R13033"
   = "Getting Needed Care "
    "RCOMPOS2", "CCOMPOS2", "R04020", "R04023",
                           "R05019", "R05022",
                           "R06019", "R06022",
                           "R07019", "R07022",
                           "R08019", "R08022",
                           "R09007", "R09010",
                           "R10007", "R10010",
                           "R11007", "R11010",
                           "R12007", "R12010",
                           "R13007", "R13010"
    = "Getting Care Quickly "
    "RCOMPOS3", "CCOMPOS3", "R04034", "R04035", "R04036", "R04037",
                           "R05033", "R05034", "R05035", "R05036",
                           "R06033", "R06034", "R06035", "R06036",
                           "R07033", "R07034", "R07035", "R07036",
                           "R08033", "R08034", "R08035", "R08036",
                           "R09021", "R09022", "R09023", "R09024",
                           "R10021", "R10022", "R10023", "R10024",
                           "R11021", "R11022", "R11023", "R11024",
                           "R12021", "R12022", "R12023", "R12024",
                           "R13021", "R13022", "R13023", "R13024"
    = "How Well Doctors Communicate "
    "RCOMPOS4", "CCOMPOS4", "R04045", "R04047",
                           "R05043","R05045",
                           "R06043", "R06045",
                           "R07043", "R07045",
                           "R08043", "R08045",
                           "R09040","R09041",
                           "R10040", "R10041",
                           "R11041", "R11042",
                           "R12041", "R12042",
                           "R13041", "R13042"
    = "Customer Service
    "RCOMPOS5", "CCOMPOS5", "R04041", "R04042",
                           "R05040", "R05041",
                           "R06040", "R06041",
                           "R07040","R07041",
                           "R08040","R08041",
                           "R09045", "R09046",
                           "R10045", "R10046",
                           "R11046","R11047",
                           "R12046", "R12047",
```

```
"R13046", "R13047"
   = "Claims Processing
   "RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
   = "Health Status
/***********************************
   /* Admin. Year Defn.
   /* 2004
                                                            2010
              2005
                       2006
                                2007
                                         2008
                                                  2009
                                                                    2011
2013 */
"R04038", "R05037", "R06037", "R07037", "R08037", "R09018", "R10018", "R11018", "R12018",
"R13018" = "Health Care
   "R04054", "R05048", "R06048", "R07048", "R08048", "R09047", "R10047", "R11048", "R12048",
"R13048" = "Health Plan
   "R04009", "R05009", "R06009", "R07009", "R08009", "R09027", "R10027", "R11027", "R12027",
"R13027" = "Primary Care Manager
   "R04015", "R05015", "R06015", "R07015", "R08015", "R09031", "R10031", "R11031", "R12031",
"R13031" = "Specialty Care
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
 1 = 'Getting Needed Care'
 2 = 'Getting Care Quickly'
 3 = 'How Well Doctors Communicate'
 4 = 'Customer Service'
 5 = 'Claims Processing'
 6 = 'Health Plan'
 7 = 'Health Care'
 8 = 'Primary Care Manager'
 9 = 'Specialty Care'
10 = 'Preventive Care'
11 = 'Healthy Behaviors';
 VALUE MAJOR
 1 = "Prime Enrollees
 2 = "Enrollees with Military PCM"
 3 = "Enrollees with Civilian PCM"
  4 = "Non-enrolled Beneficiaries "
 5 = "Active Duty
 6 = "Active Duty Dependents
 7 = "Retirees and Dependents "
 8 = "All Beneficiaries
 VALUE GETNCARE
 1 = "Getting to See a Specialist"
 2 = "Getting Treatment"
 3 = "Composite";
 VALUE GETCAREQ
 1 = "Wait for Routine Visit"
  2 = "Wait for Urgent Care"
 3 = "Composite";
 VALUE HOWWELL
 1 = "Listens Carefully"
  2 = "Explains so You Can Understand"
 3 = "Shows Respect"
  4 = "Spends Time with You"
 5 = "Composite";
 VALUE CUSTSERV
 1 = "Getting Information"
  2 = "Courteous Customer Service"
 3 = "Composite";
 VALUE CLMSPROC
 1 = "Claims Handled in a Reasonable Time"
```

2 = "Claims Handled Correctly"

```
3 = "Composite";

VALUE PREVCARE
1 = "Mammography"
2 = "Pap Smear"
3 = "Hypertension"
4 = "Prenatal Care"
5 = "Composite";

VALUE SMOKEF
1 = "Non-Smoking Rate"
2 = "Counselled To Quit"
3 = "Percent Not Obese"
4 = "Composite";

RUN;
```

G.11.A Benchmark\BENCHA03.SAS - Calculate CAHPS Benchmark data for HCSDB - Annual.

```
******************
* PROGRAM: BENCHA03.SAS
           Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
 TASK:
 PURPOSE: Adjust Adult CAHPS Benchmarks
* WRITTEN: June 2000 BY ERIC SCHONE
* INPUTS:
           1) BENCHA02.SD2 - 2005 Adult CAHPS Questions Renamed to be
              consistent with the 2006 MPR DOD Survey.
            2) GROUP8.SD2 - CAHPS Group8 (all beneficiaries) Dataset
 OUTPUTS: 1) Benchmark Composite Scores Data Sets
 MODIFIED: 1) Nov 2000 BY ERIC SCHONE - Output permanent datasets with
              scores and standard errors and process the rest of the
              composites and ratings.
            2) Dec 2000 BY KEITH RATHBUN - Update variable names for
               01 2000 Survey.
            3) Jan 2002 BY KEITH RATHBUN - Updated to run under SAS
              version 8 (changed INTERCEP to INTERCEPT).
            4) Apr 2002 BY MIKE SCOTT - Updated variable names for Q1
               2002 Survey.
            5) Jul 2002 BY MIKE SCOTT - Changed R00077 to R04075, since
              H02077 (health status) is back and was renamed to R04075
               in HSC022_1.sd2.
           6) Mar 2003 BY MIKE SCOTT - Updated for 2003 survey.
           7) May 2003 BY MIKE SCOTT - Changed ac03_01 to ac03_02.
           8) Jun 2003 BY MIKE SCOTT - Updated for Q2 2003.
           9) Oct 2003 BY MIKE SCOTT - Updated for Q3 2003.
          10) Mar 2004 BY MIKE SCOTT - Updated for Q1 2004.
          11) April 2004 BY KEITH RATHBUN - Updated to use the CAHPS 2003
               variable ac03_03.
           12) June 2004 BY REGINA GRAMSS - Updated to use for Q2 2004
          13) Sept 2004 BY REGINA GRAMSS - Update for Q3 2004
          14) May 2005 BY REGINA GRAMSS - Updated for Q1 2005
           15) Jul 2005 BY REGINA GRAMSS - Updated for Q2 2005
          16) Oct 2005 BY REGINA GRAMSS - Updated for Q3 2005
          17) Dec 2005 BY REGINA GRAMSS - Updated for Q4 2005
          18) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
              Changed variable names to match the 2006 HCSDB survey.
          19) 07/12/2006 by Justin Oh - Updated for Q3 FY 2006.
           20) 10/03/2006 by Justin Oh - Changed libname in 2 for Q4FY2006.
               Change the INCLUDE path to CONVERT.sas file.
           21) 12/18/2006 by Justin Oh - Changed libname in 2 for Q1FY2007.
               Change the INCLUDE path to CONVERT.sas file.
           22) 04/05/2007 by Justin Oh - Changed libname in 2 for Q2FY2007.
               Change the INCLUDE path to CONVERT.sas file.
           23) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
              ReportCards OR PurchasedReportCards.
           24) 04/05/2007 by Keith Rathbun - Changed libname in2 for Q3FY2007.
              Change the INCLUDE path to CONVERT.sas file.
           25) 09/04/2007 by Justin Oh - Changed libname in 2 for Q4FY2007.
               Change the INCLUDE path to CONVERT.sas file.
           26) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
               Changed variable names to match the 2008 HCSDB survey.
           27) 04/11/2008 by Justin Oh - Changed libname in 2 for Q2FY2008.
               Change the INCLUDE path to CONVERT.sas file.
           28) 06/13/2008 by Keith Rathbun - Changed libname in2 for Q3FY2008.
              Change the INCLUDE path to CONVERT.sas file.
           29) April 10, 2009 by Mike Rudacille, changed variable names to reflect
              modifications to beneficiary reports necessary for V4
           30) Sept 30, 2009 by Mike Rudacille - Changed libname in 2 for Q4FY2009.
              Change the INCLUDE path to CONVERT.sas file.
       31) October 9, 2009 by Emma Ernst- Updated for 2009 database
          32) Sept 10, 2010 by Mike Rudacille - Updated for 2010 annual report
           33) Oct 7, 2011 by Mike Rudacille - Updated for 2011 annual report
          34) Aug 2, 2012 by Amanda Kudis - Updated for 2012 and removed insurnace restriction. 35) Aug 1, 2013 by Amanda Kudis - Updated for 2013.
```

```
* NOTES:
* 1) Run this program after BENCHA01.SAS and BENCHA02.SAS.
* 2) This program will generate the input for BENCHA04.SAS.
*************************
* Assign data libraries and options
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
               "..\..\Q1FY2013\Programs\Benchmark\Data";
libname in
libname in2 "..\&RCTYPE\CAHPS_Adult2013\Data"; libname out "Data";
LIBNAME LIBRARY "..\..\DATA\FMTLIB";
%let wgt=CFWT;
OPTIONS MLOGIC MPRINT NOCENTER MERGENOBY=WARN LS=132 PS=79;
%macro comb(f,t,q,l);
proc summary data=&f;
var &t;
where &q~=.;
weight &wgt;
output out=temp mean=&t;
run;
data temp;
set temp;
array old &t;
call symput('z',left(dim(old)));
data temp(drop=_type_ &t);
set temp;
array old &t;
array new var1-var&z;
 do i=1 to &z;
 new(i)=old(i);
 end;
run;
data &q._&l;
merge temp c_&q;
array coeffs &t;
array means var1-var&z;
 DO I = 1 TO DIM(COEFFS);
  IF COEFFS(I) = . THEN COEFFS(I) = 0;
IF MEANS(I) = . THEN MEANS(I) = 0;
  ADJUST + ( COEFFS(I) * MEANS(I) );
 END;
ADJUST = ADJUST + intercept;
&q._&l=adjust;
run;
%mend comb;
%macro adjust(x,y);
proc summary data=setup;
where &x>.;
class product;
output out=count;
```

run;

```
data count count2(rename=(_freq_=denom));
set count;
if _type_=0 then output count2;
else output count;
data count(keep=pweight product);
if _n_=1 then set count2;
set count;
pweight=denom/_freq_;
run;
data temp;
merge count setup; by product;
proc summary data=temp;
where &x>.;
weight pweight;
var &y;
output out=temp2 mean=&y;
data temp2;
set temp2;
array old &y;
call symput('z',left(dim(old)));
run;
data temp2(keep=var1-var&z);
set temp2;
array old &y;
array new var1-var&z;
 do i=1 to &z;
  new(i)=old(i);
 end;
run;
data temp;
set temp;
if _n_=1 then set temp2;
array old &y;
array new var1-var&z;
 do i=1 to &z;
  if old(i) = . then
  old(i)=new(i);
  end;
run;
proc reg data=temp outest=c_&x noprint;
model &x=&y;
weight pweight;
output out=r_&x r=r_&x;
run;
proc sort data=r_&x; by product;
run;
PROC DESCRIPT DATA=r_&x DESIGN=STRWR NOPRINT;
WEIGHT pweight;
SETENV DECWIDTH=4;
NEST product / missunit;
VAR R_&x;
OUTPUT SEMEAN / TABLECELL=DEFAULT
FILENAME=s_&x;
data s_&x(rename=(semean=s_&x));
set s_&x(keep=semean);
%do i=1 %to 8;
  %if &i=8 %then %do;
   data group8;
   set in2.group5 in2.group6 in2.group7;
   run;
   %comb(group8,&y,&x,8);
```

```
%else %do;
  %comb(in2.group&i,&y,&x,&i);
  %end;
 %end;
%mend adjust;
/* adjust all the variables */
%macro comp(compno,a,b,c,d);
%if &a~= %then %do;
  %let n=r_&a;
  %let m=s_&a;
  %do i=1 %to 8;
  %let p&i=&a._&i;
  %end;
  %let grpnum=1;
  proc sort data=r_&a;
   by mpid;
  run;
 %end;
 %if &b~= %then %do;
  %let n=%str(&n r_&b);
  %let m=%str(&m s_&b);
  %do i=1 %to 8;
  %let p&i=%str(&&p&i &b._&i);
  %end;
  %let grpnum=2;
  proc sort data=r_&b;
   by mpid;
  run;
 %end;
%if &c~= %then %do;
 proc sort data=r_&c;
  by mpid;
  run;
  %let grpnum=3;
  %let n=%str(&n r_&c);
  %do i=1 %to 8;
  %let p&i=%str(&&p&i &c._&i);
  %end;
  %let m=%str(&m s_&c); %end;
  %if &d~= %then %do;
  proc sort data=r_&d;
   by mpid;
   run;
   %let grpnum=4;
   %let n=%str(&n r_&d);
    %do i=1 %to 8;
    %let p&i=%str(&&p&i &d._&i);
    %end;
    %let m=%str(&m s_&d);
  %end;
data infile;
merge &n;
by mpid;
run;
proc corr outp=outf noprint;
var &n;
weight pweight;
run;
data final;
if _n_=1 then do;
  %if &a~= %then %do;
  set s_&a;
  %end;
  %if &b~= %then %do;
```

```
set s_&b;
  %end;
  %if &c~= %then %do;
  set s_&c;
  %end;
  %if &d~= %then %do;
  set s_&d;
  %end;
 end;
set outf;
call symput('s'||compress(_n_),substr(_name_,3));
where _type_='CORR';
data final;
set final;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
  %do i=1 %to &grpnum;
  if _name_="r_&&s&i" then
   sde=sde+r_val(i)*s_&&s&i*s_val(i);
  %end;
end;
run;
data sefin&compno;
set final end=last;
tv+sde;
if last then do;
sde=(tv**.5)/&grpnum;
output;
end;
%do i=1 %to 8;
data temp(keep=&&p&i);
 merge &&p&i;
run;
data output;
set &&p&i;
totadj+adjust;
run;
data output(keep=totadj);
set output end=last;
if last then do;
 totadj=totadj/&grpnum;
 output;
end;
run;
data out&compno._&i;
merge output temp;
run;
data out.comp&compno._&i;
  merge out&compno._&i
         sefin&compno;
run;
%end;
%mend comp;
/* create composites */
proc sort data=in.bencha02 out=setup;
by product;
run;
data setup;
set setup;
/*if ^(model in (2,4)); */ **AMK removed restriction 9/20/12;
```

```
if disp in ('M10','I10') ; ***KRR 04/19/04 Changed _02 to _03;
data setup;
set setup; by product;
mpid= n ;
if agegroup ne . then do;
age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;
     if agegroup=1 then age1824=1;
else if agegroup=2 then age2534=1;
else if agegroup=3 then age3544=1;
else if agegroup=4 then age4554=1;
else if agegroup=5 then age5564=1;
else if agegroup=6 then age6574=1;
end;
if agegroup<6;
run;
%INCLUDE "..\REPORTCARDS\CAHPS_Adult2013\CONVERT.SAS";
%CONT2(DSN=SETUP, NUM=4, Y=R13018 R13048 R13027 R13031);
%CONT3(DSN=SETUP, NUM=12, Y=R13007 R13010 R13029 R13033
                           R13021 R13022 R13023 R13024
                            R13041 R13042 R13046 R13047);
/* GETTING NEEDED CARE */
%adjust(R13029,age1824 age2534 age3544 age4554 R13065);
%adjust(R13033,age1824 age2534 age3544 age4554 R13065);
%comp(1,R13029,R13033);
/* GETTING NEEDED CARE QUICKLY */
%adjust(R13007,age1824 age2534 age3544 age4554 R13065);
%adjust(R13010,age1824 age2534 age3544 age4554 R13065);
%comp(2,R13007,R13010);
/* HOW WELL DOCTORS COMMUNICATE */
%adjust(R13021,age1824 age2534 age3544 age4554 R13065);
%adjust(R13022,age1824 age2534 age3544 age4554 R13065);
%adjust(R13023,age1824 age2534 age3544 age4554 R13065);
%adjust(R13024,age1824 age2534 age3544 age4554 R13065);
%comp(3,R13021,R13022,R13023,R13024);
/* CUSTOMER SERVICE */
%adjust(R13041,age1824 age2534 age3544 age4554 R13065);
%adjust(R13042,age1824 age2534 age3544 age4554 R13065);
%comp(4,R13041,R13042);
/* CLAIMS PROCESSING */
%adjust(R13046,age1824 age2534 age3544 age4554 R13065);
%adjust(R13047,age1824 age2534 age3544 age4554 R13065);
%comp(5,R13046,R13047);
/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(R13018,age1824 age2534 age3544 age4554 R13065);
%comp(6,R13018);
/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(R13048,age1824 age2534 age3544 age4554 R13065);
%comp(7,R13048);
/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(R13027,age1824 age2534 age3544 age4554 R13065);
%comp(8,R13027);
/* SPECIALTY CARE */
%adjust(R13031,age1824 age2534 age3544 age4554 R13065);
%comp(9,R13031);
```

G.11.B Benchmark\BENCHA04.SAS - Convert the Benchmark Scores Database into the WEB layout - Annual.

```
* PROGRAM: BENCHA04.SAS
* TASK:
             Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the Benchmark Scores Database into the WEB layout
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
             1) Benchmark data sets with adjusted scores
                (COMPn_i.SD2 where n = composite number and i = group number)
* OUTPUT: 1) BENCHA04.SD2 - Combined Benchmark Scores Database in WEB layout
* INCLUDES: 1) LOADCAHO.INC - Format definitions for CAHPS Individual
                and composite data sets
* MODIFIED: 1) Dec 2000 by Keith Rathbun: Updated variable names for
                Q1 2000 Survey. For the quarterly survey group 8 (all benes)
                is being used as the benchmark for all groups (1-8). Thus,
                this group is copied and output to each of the other 7 groups.
             2) 01/23/2002 by Mike Scott: Updated variable names to be consistent
                with 2000 survey.
             4) 04/15/2002 by Mike Scott - Updated variable names for
                Q1 2002 Survey.
             5) 03/21/2003 by Mike Scott - Updated for 2003 survey.
             6) 06/26/2003 by Mike Scott - Updated for Q2 2003.
7) 07/03/2003 by Mike Scott - Added TIMEPD variable to be set to the period
                or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
                setting to 'Composite'.
             8) 07/18/2003 by Mike Scott - Added TIMEPD to FREQ. 9) 10/21/2003 by Mike Scott - Updated for Q3 2003.
            10) 03/23/2004 by Mike Scott - Updated for Q1 2004.
           11) 06/15/2004 by Regina Gramss - Updated for Q2 2004.
12) 09/2004 by Regina Gramss - Updated for Q3 2004.
13) 05/2005 by Regina Gramss - Updated for Q1 2005.
            14) 10/2005 by Regina Gramss - Updated for Q3 2005.
            15) 03/24/2006 by Keith Rathbun - Updated for Q2 FY 2006.
                Added MACRO loop to process the 8 groups.
            16) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3.
            17) 12/18/2007 by Justin Oh - Updated BENTYPE composite year to 2006 Q4.
            18) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1.
19) 04/05/2007 by Justin Oh - Updated LIBNAME IN2 to be used for purchase RC programs.
            20) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3.
            21) 01/10/2008 by Keith Rathbun - Updated for Q1 FY 2008.
            22) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1.
            23) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2.
            24) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3.
            25) 04/10/2009 by Mike Rudacille - Changed variable names to reflect
                modifications to beneficiary reports necessary for V4
            26) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3.
            27) 09/10/2010 by Mike Rudacille - Updated for 2010 annual report 28) 10/07/2011 by Mike Rudacille - Updated for 2011 annual report
            29) 08/02/2012 by Amanda Kudis - Updated for 2012 annual report
* NOTES:
* 1) The following steps need to be run prior to this program:
     - BENCHA01.SAS - Extract Benchmark variables
     - BENCHA02.SAS - Recode Benchmark variables
     - BENCHA03.SAS - Construct Scores and SEMEAN datasets
* 2) The output file (BENCHA04.SAS7BDAT) will be run through the
     MAKEHTML.SAS program to generate the WEB pages.
* Assign data libraries and options
                     ******************
LIBNAME IN "DATA";
LIBNAME IN2 "apredtest";
```

```
LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\DATA\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER;
* Load Format definitions for CAHPS Individual and composite data sets.
%INCLUDE "..\LOADWEB\LOADCAHQ.INC";
*************************
*************************
* Process Macro Input Parameters:
* 1) CNUM = Composite or rating variable number (1-10)
* 2) GNUM = Group number (1-8)
* 3) NVAR = Number of variables in the composite
* 4) VARS = List of individual variables for composite
* 5) SE = List of individual standard error variables
   Adjusted Score
                      Definitions
   Group Number
* 1. Prime enrollees
                      XINS_COV IN (1,2,6) AND H09004_R>=7
* 4. Nonenrollees
                      XINS_COV IN (3,4,5)
* 5. Active duty
                      BFGROUPP = 1
* 6. Active duty dependents BFGROUPP = 2
* 7. Retirees and dependents BFGROUPP IN (3,4)
* 8. All Beneficiaries
************************
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
********************
* Assign value for BENTYPE composite year
*************************
%LET YEAR = "2013"; * Note that this is based on Calendar Year here;
*************************
* Convert benchmark scores datasets into WEB layout.
****************************
%IF &CNUM<6 %THEN %DO;
 DATA INP;
  SET IN2.COMP&CNUM;
   WHERE X=&GNUM;
  DATA INP;
  SET INP IN2.PROJERR&GNUM;
  RENAME SE=SESX;
%END;
%ELSE %DO;
  DATA INP;
  SET IN2.PROJERR&GNUM;
  RENAME SE=SESX;
%END;
  DATA COMP&CNUM._&Gnum;
    SET INP;
   IF _N_=1 THEN
   SET IN.COMP&CNUM._&GNUM;
    LENGTH MAJGRP $30;
```

```
LENGTH REGION $25;
  LENGTH REGCAT $26;
  LENGTH BENTYPE $50;
  LENGTH BENEFIT $34;
  LENGTH TIMEPD $35; ***MJS 07/03/03 Added line;
  * For now, assign SIG = 0
         **********************
  STG = 0;
  *************
  * Assign major group
  *******************
  MAJGRP = PUT(&Gnum, MAJGRPF.);
  **********************
  * Assign Region and Regcat
  REGION = "Benchmark";
  REGCAT = "Benchmark";
  *******************
  * Assign benefit and benefit type
                          ************
  TF
      &CNUM = 1 THEN BENEFIT = "Getting Needed Care";
  ELSE IF &CNUM = 2 THEN BENEFIT = "Getting Care Quickly";
  ELSE IF &CNUM = 3 THEN BENEFIT = "How Well Doctors Communicate";
  ELSE IF &CNUM = 4 THEN BENEFIT = "Customer Service";
  ELSE IF &CNUM = 5 THEN BENEFIT = "Claims Processing";
  ELSE IF &CNUM = 6 THEN BENEFIT = "Health Care";
  ELSE IF &CNUM = 7 THEN BENEFIT = "Health Plan";
  ELSE IF &CNUM = 8 THEN BENEFIT = "Primary Care Manager";
  ELSE IF &CNUM = 9 THEN BENEFIT = "Specialty Care";
                   ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR, $BENTYPF.);
  BENTYPE = "Composite";
  TIMEPD = PUT(&YEAR, $BENTYPF.); ***MJS 07/03/03 Added;
  IF &CNUM<6 THEN DO;
    IF X=&GNUM THEN DO;
  **********************
  * Assign composite score and SEMEAN
  SCORE = TOTADJ;
      SEMEAN = SQRT(SDE**2+SESX**2);
  *******************
  * Output composite score record for each REGION
     OUTPUT;
     END;
  END:
  ******************
  * Now, output the individual score records
  *****************************
  IF &NVAR GT 1 &CNUM>5 THEN DO;
    ARRAY ITEMS &VARS;
    ARRAY SE
           &SE;
    LENGTH NAME $8;
    DO I = 1 TO DIM(ITEMS); DROP I;
      CALL VNAME(ITEMS(I), NAME);
      NAME = SUBSTR(NAME,1,6);
      SCORE = ITEMS(I);
      SEMEAN = SQRT(SE(I)**2+SESX**2);
      IF &NVAR GT 1 THEN
      BENTYPE = PUT(NAME, $BENTYPF.);
                              ***MJS 07/03/03 Added;
      TIMEPD = PUT(&YEAR, $BENTYPF.);
     IF COMPRESS(UPCASE(NAME))=COMPRESS(UPCASE(VAR)) THEN OUTPUT;
    END;
  END;
KEEP MAJGRP
   REGION
   REGCAT
```

```
BENTYPE
     BENEFIT
     TIMEPD
          /*MJS 07/03/03 Added*/
     SEMEAN
     SCORE
     SIG
 RUN;
%MEND;
*****************
*************************
* Process each of the 8 Groups.
**************
**************************
%MACRO DOIT;
DOI = 1 TO 8;
  ******************
 * COMPOSITE # 1.
 * GETTING NEEDED CARE VARIABLES.
             ****************
 %PROCESS(CNUM=1, GNUM=&I, NVAR=2, VARS=R13029_&I R13033_&I,
     SE=S_R13029 S_R13033);
 *****************
  * COMPOSITE # 2.
  * GETTING CARE QUICKLY VARIABLES.
             ******************
 %PROCESS(CNUM=2, GNUM=&I, NVAR=2, VARS=R13007_&I R13010_&I,
     SE=S_R13007 S_R13010);
 *******************
  * COMPOSITE # 3.
  * HOW WELL DOCTORS COMMUNICATE.
               %PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R13021_&I R13022_&I R13023_&I R13024_&I,
     SE=S_R13021 S_R13022 S_R13023 S_R13024);
 *****
  * COMPOSITE # 4.
  * CUSTOMER SERVICE.
              *****************
 \label{eq:colored} \texttt{\$PROCESS}(\texttt{CNUM=4}\,,\,\,\texttt{GNUM=\&I}\,,\,\,\,\texttt{NVAR=2}\,,\,\,\,\texttt{VARS=R13041\_\&I}\,\,\,\texttt{R13042\_\&I}\,,
     SE=S_R13041 S_R13042);
 *******************
  * COMPOSITE # 5.
  * CLAIMS PROCESSING.
 %PROCESS(CNUM=5, GNUM=&I, NVAR=2, VARS=R13046_&I R13047_&I,
     SE=S_R13046 S_R13047);
 ******************
  * INDIVIDUAL # 1.
  * RATING OF ALL HEALTH CARE: 0 - 10.
                         ************
 %PROCESS(CNUM=6, GNUM=&I, NVAR=1, VARS=R13018_&I, SE=S_R13018);
  *****************
  * INDIVIDUAL # 2.
  * RATING OF HEALTH PLAN: 0 - 10.
  *******************
 %PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R13048 &I, SE=S R13048);
  *************************
  * INDIVIDUAL # 3.
  * RATING OF PERSONAL DOCTOR: 0 - 10.
  %PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R13027_&I, SE=S_R13027);
  ******************
  * INDIVIDUAL # 4.
```

```
* SPECIALTY CARE: 0 - 10.
  **************************
  %PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R13031_&I, SE=S_R13031);
%END;
%MEND DOIT;
%DOIT;
*************************
*************************
* STACK up all of the files into one final output dataset.
/*Comp4 was from questions 40 and 41 and there is no 2007 equivalent*/
DATA OUT.BENCHA04;
  SET COMP1_1 COMP1_2 COMP1_3 COMP1_4 COMP1_5 COMP1_6 COMP1_7 COMP1_8
      COMP2_1 COMP2_2 COMP2_3 COMP2_4 COMP2_5 COMP2_6 COMP2_7 COMP2_8 COMP3_1 COMP3_2 COMP3_3 COMP3_4 COMP3_5 COMP3_6 COMP3_7 COMP3_8 COMP4_1 COMP4_2 COMP4_3 COMP4_4 COMP4_5 COMP4_6 COMP4_7 COMP4_8
      COMP5_1 COMP5_2 COMP5_3 COMP5_4 COMP5_5 COMP5_6 COMP5_7 COMP5_8
      COMP6_1 COMP6_2 COMP6_3 COMP6_4 COMP6_5 COMP6_6 COMP6_7 COMP6_8 COMP7_1 COMP7_2 COMP7_3 COMP7_4 COMP7_5 COMP7_6 COMP7_7 COMP7_8
      COMP8_1 COMP8_2 COMP8_3 COMP8_4 COMP8_5 COMP8_6 COMP8_7 COMP8_8
      \verb|COMP9_1| COMP9_2| COMP9_3| COMP9_4| COMP9_5| COMP9_6| COMP9_7| COMP9_8|
   IF SCORE = . THEN DELETE;
RIIN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SAS7BDAT - Combined Benchmark Scores Database in WEB layout";
PROC CONTENTS; RUN;
PROC FREO;
TABLES TIMEPD BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
     /MISSING LIST;
RUN;
```

G.12.A ReportCards\MPR_Adult2013\PRVCOMP.SAS - Calculate Preventive Care Composite Scores - Annual.

```
Project: DoD Reporting and Analysis 6077-410
Program:
           PRVCOMPQ.SAS
Author:
           Chris Rankin
           12/22/2000
Date:
Modified: 4/19/2001 By Keith Rathbun: Restrict population to
           xins_cov in(1,2,3,6). Use POSTSTR instead of
            adi cell.
Modified:
           10/25/01 By Daniele Beahm: Because no poststratification
            was done for q3 2000, changed POSTSTR back to ADJ_CELL
            04/09/02 modified macros the first three macros to create
            temporary datasets (instead of writing permanent datasets)
            07/15/02 By Mike Scott: Changed HCS021 to HCS022 for Q2 2002.
            01/12/03 By Mike Scott: Changed ADJ_CELL to COM_SAMP.
            03/21/03 By Mike Scott: Changed HCS024 to HCS031 for Q2 2002.
            04/01/03 By Mike Scott: Replaced HP_FLU with HP_CHOL. 04/30/03 By Mike Scott: Changed COM_SAMP to ADJ_CELL.
            CMPNUM1 from 4 to 5 and CMPNUM2 from 4 to 3.
            06/13/03 By Eric Schone. Changed composite mean & std err calculations
            to use weights from 2000 input data.
            07/23/03 By Mike Scott: Removed ..\PROGRAMS\ from INCLUDE.
            10/21/03 By Mike Scott: Updated for Q3 2003.
            01/07/04 By Mike Scott: Updated for Q4 2003.
            02/02/04 By Mike Scott: Set PRVVAR6, PRVVAR7, and PRVVAR8 in DATA NORMDATA
            to H04023, H04020, and H04031.
            03/24/04 By Mike Scott: Updated for Q1 2004.
            04/09/04 By Keith Rathbun: Added Service Affiliation variables to
            accomodate the consumer watch.
            06/22/04 By Regina Gramss: Updated for Q2 2004.
            09/2004 By Regina Gramss: Updated for Q3 2004, to use XTNEXREG
                                       vs. XREGION
            01/2005 By Regina Gramss: Updated to create "Last USA_q" for
                    Q4 2004, replace XTNEXREG with XSERVREG
            04/2005 By Regina Gramss: Updated for Q1 2005 (update 2004 field names)
            07/2005 By Regina Gramss: updated for Q2 2005
            10/2005 By Regina Gramss: Updated for Q3 2005
            12/2005 By Regina Gramss: Updated for Q4 2005
            03/24/2006 By Keith Rathbun: Updated for Q2 FY 2006. Changed reference
            to ADJ_CELL in 2006 data to be STRATUM.
            07/2006 By Justin Oh: updated for Q2 FY 2006
            08/22/2006 By Justin Oh
                    Changed XSERVREG for Overseas
                    Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                            IF XINS_COV IN (3)
                                                   THEN GROUP4 = 1
                            Since only XINS_COV IN (1,2,3,6) is kept.
                    Create XOUSA for 2005 data.
                    Added XREGION in the keep statement for NORMDATA.
            10/04/2006 By Justin Oh Updated %LET INDATA and YRDATA.
            11/15/2006 By Justin Oh Added FIELDAGE in 4 keep statements
            12/22/2006 By Justin Oh Updated %LET INDATA and YRDATA HCS071_1.
            04/05/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS072_1.
            04/05/2007 By Justin Oh Added conditions for RC types
                       ReportCards OR PurchasedReportCards.
            05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
                       both Norm and Quarter datasets.
            05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
                       Groups 1,3, and 4 for new reservists logic.
            07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
                       Groups All, 4, 5, and 6.
            09/04/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS074_1.
            01/10/2008 By Keith Rathbun, Updated %LET INDATA and YRDATA HCS081_1.
                       Also changed H07 variable names to be H08 to match 2008 survey
            04/11/2008 By Justin Oh Updated %LET INDATA and YRDATA HCS082_1.
            06/13/2008 By Keith Rathbun Updated %LET INDATA and YRDATA HCS083_1.
            04/20/2009 By Mike Rudacille Changed RCTYPE and certain variable names for
                       transition to V4 questionnaire.
            06/22/2009 By Keith Rathbun Updated %LET INDATA and YRDATA HCS093_1.
            09/30/2009 By Mike Rudacille Updated %LET INDATA and YRDATA HCS094_1.
            09/10/2010 By Mike Rudacille, Updated for 2010 annual report
```

```
11/02/2010 By Mike Rudacille, Changed input dataset from HCS10A_1 to HCS10A_2.
             10/21/2012 By Mike Rudacille, Updated for 2012 annual report
             11/11/2012 By Mike Rudacille Updated for handling of
                       Joint Service facilities
             Calculate MPR Preventive Care Composites
  Purpose:
             HCSyyq_1.sas7bdat
  Input:
             RFINAL.sas7bdat
 Output:
             CFINAL.sas7bdat
             MFINAL.sas7bdat
            SFINAL.sas7bdat
* Include
           LOADCAHPQ.INC
  Files:
  Notes: Next program is Loadmprq.sas
            ***CHECK PARAMETER ASSIGNMENTS***
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 MLOGIC MPRINT
       NOFMTERR COMPRESS=YES;
                                                                     ***/
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = ReportCards;
LIBNAME IN
                     "..\..\..\Data";
LIBNAME INNORM
                     "..\..\..\2011\Data";
                     "..\CAHPS_Adult2013\Data";
LIBNAME CACLIB
LIBNAME OUT
                     "..\..\Data\fmtlib";
LIBNAME LIBRARY
%LET WGT=CFWT;
%LET NORMWGT = CFWT;
%LET NORMDAT = HCS11A_2;
               /** Set to Y for Debug print of datasets **/
%LET INDATA=HCS13A_2;
%LET YRDATA=HCS13;
%LET YR=13;
/**** The following parameters are used in the Variance ****/
/***** calcuation macro for region and catchment area
**/ /* RSG - 04/2005 changed from 8 to 7
(eliminate cholesterol*/
%LET REGNUM=18; /** number of regions
                                               **/ /* RSG - 01/2005 CHANGED TO FIT THE 16
CATEGORIES OF XSERVREG */
                                                    /* JSO 08/24/2006 (16 TO 15) Changed
Overseas Regions*/
                                                    /* MER 11/11/2012 (15 TO 18) Joint Service
%LET CATCHNUM=9999; /** number of catchment areas **/
%LET CMPNUM1=4; /** number of variables in first composite **/ /*RSG 04/2005 Changed
CMPNUM1 from 5 to 4*/
%LET CMPNUM2=2; /** number of variables in second composite **/ /*MJS 04/30/03 Changed
CMPNUM2 from 4 to 3*/
%LET COMPCNT=2; /** number of composites
                                                            **/
**** set up benchmarks for preventive services ;
**** MER 3/31/11 - updated to hp 2020 goals
                     /** HP Goal for prenatal care
%LET GOALVAR1= .78;
                   /** HP Goal for Mammography
%LET GOALVAR2= .81;
                   /** HP Goal for Papsmear
                                                         **/
%LET GOALVAR3= .93;
                    /** HP Goal for Blood Pressure check **/
%LET GOALVAR4= .95;
                     /** access goals
                                                         **/ /*04/2005 - RSG: DELETED
%LET GOALVAR5= .90;
CHOLESTEROLE GOAL*/
%LET GOALVAR6= .90;
```

```
%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";
***********************
* Beneficiary group note
   Eight groups
                         Definitions
* 1. Prime enrollees
                         XINS_COV IN (1,2,6) AND H09004>=2
* 5. Active duty
                         XBNFGRP = 1
* 6. Active duty dependents XBNFGRP = 2
* 7. Retirees
                          XBNFGRP IN (3,4)
* 8. All beneficiaries
                         ALL
******************
* Add cacsmpl from group8.sd2 dataset - CDR 2/05/2004
*----;
PROC SORT DATA=CACLIB.GROUP8 OUT=GROUP8(KEEP=MPRID CACSMPL XSERVIND);
RIIN;
PROC SORT DATA=IN.&INDATA(KEEP=MPRID XINS_COV HP_BP HP_MAMOG
                           HP_PAP HP_PRNTL /*ES 02/04/04*/
                           XTNEXREG XENR PCM XBNFGRP ENBGSMPL &WGT FIELDAGE DBENCAT
                           STRATUM H13010 H13007 H13004 H13003 SERVAFF XREGION)
  OUT= &YRDATA; BY MPRID;
RIIN:
/**** note -- output all data to a single dataset for macro */
/**** call
/**** MACROS are no longer called for catchment areas
/* 08/24/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
*LIBNAME LIBRARY '...\...\2005\Data\fmtlib';
DATA NORMDATA(KEEP=XTNEXREG XSERVREG &WGT PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
               DENV1-DENV&COMPNUM XSERVAFF FIELDAGE);
                /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
 set INNORM.&NORMDAT(KEEP=MPRID XINS_COV HP_BP HP_MAMOG HP_PAP HP_PRNTL XTNEXREG
                       XENR_PCM XBNFGRP ENBGSMPL &NORMWGT DBENCAT
                        H11010 H11007 H11003 SERVAFF XREGION FIELDAGE XCATCH);
                   /* 08/24/2006 JSO Added XREGION in the keep statement to get XOCONUS */
                   /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
                   /* 05/10/2007 JSO Added H05006, DBENCAT in the keep statement */
                   /* 12/21/2011 MER For switch to 2011 norm data mapped the following vars:
* /
                   /* H05006 -> H11003
                   /* H05007 -> H11004 (subsequently taken out due to not being necessary */
                                                                                  * /
                   /* H05019 -> H11007
                   /* H05022 -> H11010
                                                                                  */
                   /* H05030 and ADJ_CELL were dropped
*******************
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
     **********************
/*RSG 02/2005 Added codes to define XTNEXREG & XSERVAFF*/
 IF SERVAFF = 'A' THEN XSERVAFF = 1;
                                        *Army;
 ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;
                                        *Air Force;
 ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
 ELSE XSERVAFF = 4;
                                        *Other/unknown;
 IF XCATCH = 37 THEN XCATCH = 67; /* Recode for combining of Walter Reed facilities */
 IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
```

```
IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
 IF XTNEXREG = . THEN DELETE;
 IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/
                                   /*JSO 04/26/2007 added for reservists logic*/
 NXNS_COV = XINS_COV;
                                   /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
  IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
 IF DBENCAT IN('GRD','IGR') AND H11003 = 3 THEN DO;
    NXNS_COV = 3;
    XENR_PCM = .;
 END;
 PRVVAR1=HP_PRNTL;
                        /** prenatal care **/
                         /** mammography
 PRVVAR2=HP_MAMOG;
                                             **/
                        /** papsmear
 PRVVAR3=HP_PAP;
                         /** blood pressure **/
 PRVVAR4=HP_BP;
                         /** access var 1 **/
/** access var 2 **/
 PRVVAR5=H11010;
 PRVVAR6=H11007;
                          /** access var 2
/**** set up numerator and denominator for proportions ****/
 ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
 ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
 ARRAY DENOM(*) DENV1-DENV&COMPNUM;
 DO I = 1 TO &COMPNUM;
    IF I LE &CMPNUM1 THEN DO;
       IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    END;
    ELSE IF I GT &CMPNUM1 THEN DO;
       IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
 END;
 DROP I;
 DENV4=1;
 /*RSG 02/2005 Added codes to define XSERVREG CACSMPL*/
 IF XTNEXREG = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 1;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
    ELSE XSERVREG = 5;
 END;
 IF XTNEXREG = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 6;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
    ELSE XSERVREG = 10;
 END;
 IF XTNEXREG = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 11;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
    ELSE XSERVREG = 15;
 END;
 IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
    ELSE IF XREGION = 14 THEN XSERVREG = 17;
```

```
ELSE IF XREGION = 15 THEN XSERVREG = 18;
   END;
    /* AMK 8/02/12 - New logic for handling out of catchment OCONUS */
   IF XCATCH = 9904 THEN DO;
         IF XSERVREG <=5 THEN XCATCH=9901;
         ELSE IF XSERVREG <=10 THEN XCATCH=9902;
         ELSE IF XSERVREG <=15 THEN XCATCH=9903;
         ELSE IF XSERVREG = 16 THEN XCATCH=9905;
         ELSE IF XSERVREG = 17 THEN XCATCH=9906;
        ELSE IF XSERVREG = 18 THEN XCATCH=9907;
   END;
   RENAME XCATCH=CACSMPL &NORMWGT = &WGT;
run;
PROC SORT DATA=CACLIB.GROUP8 OUT=GROUP8(KEEP=MPRID CACSMPL XSERVIND);
     BY MPRID;
/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
*LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
DATA &YRDATA(KEEP=BGROUP MHS USA XSERVAFF CACSMPL &WGT. TMP_CELL
                                 PRVVAR1-PRVVAR&COMPNUM. NUM&YR.V1-NUM&YR.V&COMPNUM.
                                 DEN&YR.V1-DEN&YR.V&COMPNUM IN_GROUP8
                                 XTNEXREG XSERVREG XSERVIND);
                                  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
      MERGE &YRDATA.(IN=IN_1) GROUP8(IN=IN_2); /*CDR 2/05/2004 */
   BY MPRID;
   IF IN_1;
   IF IN_2=1 THEN IN_GROUP8=1;
   ELSE IN_GROUP8=0;
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
{}^{\star} For annual reporting purposes, cellp will need to be assigned
* to geocell
IF SERVAFF = 'A' THEN XSERVAFF = 1;
                                                                                   *Army;
   ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; *Air Force;
   ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
   ELSE XSERVAFF = 4;
                                                                                    *Other/unknown;
   IF PUT(CACSMPL, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
   CELLP = 1;
   LENGTH TMP_CELL 8;
   TMP_CELL = STRATUM;
                                          /* Make STRATUM a numeric variable */
   IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
   IF XTNEXREG = . THEN DELETE;
    \mbox{IF XINS\_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; } /*\mbox{JSO } 07/30/2007, \mbox{ Added } 9*/ \mb
   NXNS_COV = XINS_COV;
                                            /*JSO 05/14/2007 added for reservists logic*/
                                              /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
   IF DBENCAT NOT IN('IGR', 'GRD', 'IDG', 'DGR') AND NXNS COV = 9 THEN DELETE;
    IF DBENCAT IN('GRD', 'IGR') AND H13003 = 3 THEN DO;
        NXNS_COV = 3;
        XENR\_PCM = .;
   END;
                                                 /** prenatal care **/
/** mammography **/
   PRVVAR1=HP_PRNTL;
   PRVVAR2=HP_MAMOG;
                                                 /** papsmear
   PRVVAR3=HP_PAP;
                                                  /** blood pressure **/
   PRVVAR4=HP_BP;
```

```
/*RSG 04/2005 - delete cholesterol, renumber PRVVAR below*/
                        /** access var 1  **/
 PRVVAR5=H13010;
 PRVVAR6=H13007;
                          /** access var 2
/*** set up numerator and denominator for proportions ****/
 ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
 ARRAY NUMER(*) NUM&YR.V1-NUM&YR.V&COMPNUM;
 ARRAY DENOM(*) DEN&YR.V1-DEN&YR.V&COMPNUM;
 DO I = 1 TO &COMPNUM;
     IF I LE &CMPNUM1 THEN DO;
       IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    END;
    ELSE IF I GT &CMPNUM1 THEN DO;
       IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
 END;
 DROP I;
 DENV4=1;
          /* set up dummy for MHS-- include all observations */
 MHS=1;
/* 08/22/2006, JSO Create XOUSA for 2005 data */
 IF XTNEXREG = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 1;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
    ELSE XSERVREG = 5;
 END;
 IF XTNEXREG = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 6;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
    ELSE XSERVREG = 10;
 END;
 IF XTNEXREG = 3 THEN DO;
     IF XSERVAFF = 1 THEN XSERVREG = 11;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
    ELSE XSERVREG = 15;
 END;
  IF XTNEXREG = 4 THEN DO;
    IF XREGION = 13 THEN XSERVREG = 16;
    ELSE IF XREGION = 14 THEN XSERVREG = 17;
    ELSE IF XREGION = 15 THEN XSERVREG = 18;
 END;
 IF XSERVREG = . THEN DELETE; /* MER 11/10/10 - Deletes records with imputed TNEXREG = '0' */
                                /* and missing XOCONUS. (Only applies to CACSMPL = 9904)
/* AMK 8/02/12 - New logic for handling out of catchment OCONUS
  USING CACSMPL INSTEAD OF XCATCH B/C NO RENAME STATEMENT AFTERWARD, AS IN
  SMK_BMI AND STEP1*/
  IF CACSMPL = 9904 THEN DO;
    IF XSERVREG <=5 THEN CACSMPL=9901;</pre>
    ELSE IF XSERVREG <=10 THEN CACSMPL=9902;
     ELSE IF XSERVREG <=15 THEN CACSMPL=9903;
```

```
ELSE IF XSERVREG = 16 THEN CACSMPL=9905;
    ELSE IF XSERVREG = 17 THEN CACSMPL=9906;
    ELSE IF XSERVREG = 18 THEN CACSMPL=9907;
*******************
* Assign indicator of USA based on XTNEXREG. USA stands for
* Contential United States it but includes both Alaska and Hawaii.
* 1/16/09 Changed USA to USA.
IF XTNEXREG IN (1,2,3) THEN USA=1;
                                                              /*RSG 01/2005 OVERALL USA*/
 ELSE IF XTNEXREG = 4 THEN USA=2;
* Prime enrollees
  IF (NXNS_COV IN (1,2,6) AND H13004>=2) THEN DO;
    BGROUP=1;
    OUTPUT;
 END;
* Enrollees with military PCMs *;
 IF (XENR_PCM IN (1,2,6) AND H13004>=2) THEN DO; /*ES 02/04/04*/
    BGROUP=2;
    OUTPUT;
 END;
* Enrollees with civilian PCMs *; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    (XENR_PCM IN (3,7) AND H13004>=2) THEN DO;
    BGROUP=3;
    OUTPUT;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    ((XENR_PCM IN (3) AND H13004>=2) OR NXNS_COV IN (3,9,10)) THEN DO; /*JSO 07/30/2007, Added
    BGROUP=3;
    OUTPUT;
 END;
* Nonenrollees *;
 IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
    BGROUP=4;
                           /*JSO 07/30/2007, Added 9*/
    OUTPUT;
 END;
* Active duty
 IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    BGROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
 END;
* Active duty dependents *;
 IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    BGROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
 END;
* Retirees *;
 IF XBNFGRP IN (3,4) THEN DO;
    BGROUP=7;
    OUTPUT;
 END;
* All beneficiaries *;
 BGROUP=8;
 OUTPUT;
```

```
RUN;
PROC FREO DATA=&YRDATA;
  TABLES IN_GROUP8/MISSING LIST;
  TITLE "OVERLAP BETWEEN & INDATA AND GROUP8 DATA";
RIIN:
**** Next, check catchment areas for requisite number of observations ;
**** for the macro calls (exclude cacsmpl w/ <2 obs)
**** also, keep list of region/catchment area combinations
PROC FREQ DATA=&YRDATA;
   TABLE BGROUP*MHS*USA*XSERVind*CACSMPL/MISSING LIST
   OUT=OBSCNT(DROP=PERCENT);
RUN;
PROC SORT DATA=&YRDATA; BY BGROUP MHS USA XSERVind CACSMPL;
RUN;
DATA HCSDB /*FAILED*/;
  MERGE &YRDATA(IN=IN_ALL) OBSCNT(IN=IN_OBS);
  BY BGROUP MHS USA XSERVind CACSMPL;
  IF COUNT < 2 THEN DO;
      PUT "Failed obs # criterion: XSERVREG=" XSERVREG "CACSMPL=" CACSMPL;
      *OUTPUT FAILED;
  END;
   ELSE OUTPUT HCSDB;
RUN;
DATA OBSCNT;
  SET OBSCNT;
  RENAME BGROUP=GROUP;
PROC SORT NODUPKEY DATA=OBSCNT; BY GROUP CACSMPL;
RUN;
*** First, calculate standard errors and create
*** a file for each analytical unit
**************************************
PROC SORT DATA=HCSDB; BY TMP_CELL;
*****************
***** Sudaan macro to calculate standard errors *****
**** there are three output datasets created
                                             ****
***** (XTNEXREG, XSERVREG, MHS, XSERVAFF)
***** Note: 7/10/2000 use USA for MHS
***** Note: there are 8 variables and 8 groups *****
***** Note: 1/16/09 Changed USA to USA
******************
%MACRO A_SUDAAN(TABLEVAR);
*** set the number of levels in the proc descript ***;
*** for region or catchment
%IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
    %LET ENDNUM=4;
    %LET PREF=S;
                        /** dataset prefix for service affiliation data
 %IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
    %LET ENDNUM=&REGNUM;
                       %LET PREF=R;
 %END;
```

```
%ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
     %LET ENDNUM=1;
     %LET PREF=C;
                         /** dataset prefix for catchement area data **/
 %ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
     %LET ENDNUM=5; /** RSG 01/2005 Change level of USA to 4 **/
                        /** MER 11/11/2012 Change from 4 to 5 for Joint Service **/
     %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=CACSMPL %THEN %DO;
     %LET ENDNUM=&CATCHNUM;
                         /** dataset prefix for catchement area data **/
     %LET PREF=D;
%END;
                        /** 8 groups
%DO I=1 %TO &GRPNUM;
     %DO J=1 %TO &COMPNUM; /** 6 variables **/
           DATA INDATA&I.&J(KEEP=&WGT MHS USA XTNEXREG XSERVREG XSERVAFF
                              CACSMPL NUM&YR.V&J DEN&YR.V&J TMP_CELL);
           SET HCSDB;
           WHERE XSERVREG > 0 AND BGROUP=&I AND DEN&YR.V&J > 0;
           %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
              IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /*RSG 01/2005 Delete USA greater
than 4 which are not USA */
                                                             /*MER 11/11/2012 Changed from 4 to 5
          %END;
for Joint Service */
          %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
              IF USA NE 1 THEN DELETE;
           %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
              IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
        RIIN;
*** Calculate values for regions, catchment areas ****;
           PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
               WEIGHT &WGT;
                SETENV DECWIDTH=4;
               NEST TMP CELL / MISSUNIT;
               VAR NUM&YR.V&J;
               TABLES &TABLEVAR;
               SUBGROUP &TABLEVAR;
               LEVELS & ENDNUM;
               OUTPUT SEMEAN/ TABLECELL=DEFAULT REPLACE
               FILENAME=&PREF.GRP&I.V&J;
***** first, put all variables into one dataset for each group *****;
        DATA &PREF.GRP&I.V&J;
           SET &PREF.GRP&I.V&J;
           IF SEMEAN NE .;
           MHS=1;
         RUN;
         %IF &J=1 %THEN %DO;
           DATA &PREF.SEGRP&I;
              SET &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
              GROUP=&I;
              IF SEMEAN NE .;
              RENAME SEMEAN = SERR&YR.V&J;
           RUN;
         %END;
         %ELSE %DO;
           DATA &PREF.SEGRP&I;
              MERGE &PREF.SEGRP&I &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
              BY &TABLEVAR;
              GROUP=&I;
              RENAME SEMEAN = SERR&YR.V&J;
           RUN;
```

```
%END;
    %END;
***** Put all data into one dataset *****
***** Note: changed output dataset *****
                                    ****;
***** to include group
    %IF &I=1 %THEN %DO;
       DATA &PREF.SERR;
         SET &PREF.SEGRP&I;
          KEEP GROUP &TABLEVAR SERR&YR.V1-SERR&YR.V&COMPNUM;
    %END;
    %ELSE %DO;
       DATA &PREF.SERR;
         SET &PREF.SERR
          &PREF.SEGRP&I;
     %END;
****** DEBUG PRINT *****;
     %IF &DEBUG=Y %THEN %DO;
       %IF &I=&GRPNUM AND &PREF=R %THEN %DO;
            PROC PRINT DATA=&PREF.SERR;
               VAR &TABLEVAR GROUP SERR&YR.V1-SERR&YR.V&COMPNUM;
       %END;
    %END;
%END;
%MEND A_SUDAAN;
%A_SUDAAN (USA);
%A_SUDAAN (XSERVAFF);
%A SUDAAN (XSERVREG);
%A_SUDAAN (XTNEXREG);
%A_SUDAAN (CACSMPL);
****************
*** Next, calculate correlation coefficients ***
*** and create a file for each analytical unit
                                                   ***
%MACRO GETCORR(BYVAR);
%IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF %UPCASE(&BYVAR)=CACSMPL %THEN %LET PREF=D;
PROC SORT DATA=HCSDB; BY &BYVAR;
RUN;
%DO I = 1 %TO &GRPNUM;
   PROC CORR NOPRINT DATA=HCSDB OUTP=&PREF.CORRC&I;
      %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %DO;
                                                   /** RSG 0/2005 Change USA values to keep to
         WHERE BGROUP=&I AND 1 <= XSERVAFF <= 5;
be between 1-4 **/
      %END;
                                                    /*MER 11/11/2012 Changed from 4 to 5 for
Joint Service */
      %IF %UPCASE(&BYVAR)=USA %THEN %DO;
         WHERE BGROUP=&I AND USA = 1;
      %END;
      %ELSE %DO;
         WHERE BGROUP=&I;
      %END;
      BY &BYVAR;
```

```
VAR PRVVAR1-PRVVAR&COMPNUM;
       WITH PRVVAR1-PRVVAR&COMPNUM;
       WEIGHT &WGT;
    RUN;
    DATA &PREF.CORRC&I;
     SET &PREF.CORRC&I;
     WHERE _TYPE_= "CORR";
     GROUP=&I;
     ARRAY OLD PRVVAR1-PRVVAR&COMPNUM;
     ARRAY NEW COR&YR.V1-COR&YR.V&COMPNUM;
     DO J = 1 TO &COMPNUM;
        NEW(J) = OLD(J);
     END;
     DROP J PRVVAR1-PRVVAR&COMPNUM;
    RUN;
    %IF &I=1 %THEN %DO;
       DATA &PREF.CORRC;
        SET &PREF.CORRC&I;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.CORRC;
        SET &PREF.CORRC
        &PREF.CORRC&I;
       RUN;
    %END;
    %IF &DEBUG=Y %THEN %DO;
        %IF &I=&COMPNUM AND &PREF=R %THEN %DO;
           PROC PRINT DATA=&PREF.CORRC;
             WHERE GROUP=1;
          RUN;
        %END;
    %END;
%END;
*** Flatten dataset(for each region, condense matrix to one row) ***;
%DO K=1 %TO &COMPNUM;
    DATA &PREF.CORR&K;
     SET &PREF.CORRC;
      WHERE _NAME_ = "PRVVAR&K";
     ARRAY CORR (&COMPNUM) COR&YR.V1-COR&YR.V&COMPNUM;
     ARRAY CORR&K (&COMPNUM) COR&YR.V&K.1-COR&YR.V&K.&COMPNUM;
     DO L=1 TO &COMPNUM;
        CORR&K(L)=CORR(L);
     END;
     KEEP GROUP &BYVAR COR&YR.V&K.1-COR&YR.V&K.&COMPNUM;
    RUN;
    %IF &K=1 %THEN %DO;
       DATA &PREF.CORR;
         SET &PREF.CORR&K;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.CORR;
        MERGE &PREF.CORR(IN=IN_1) &PREF.CORR&K(IN=IN_2);
         BY GROUP &BYVAR;
      RUN;
    %END;
    %IF &DEBUG=Y %THEN %DO;
       %IF &PREF=R %THEN %DO;
          PROC PRINT DATA=&PREF.CORR;
             WHERE GROUP=1;
          RUN;
       % END;
     %END;
```

```
%END;
%MEND GETCORR;
%GETCORR(USA);
%GETCORR(XSERVAFF);
%GETCORR (XSERVREG);
%GETCORR(XTNEXREG);
%GETCORR(CACSMPL);
****************
*** Macro to derive composites for each
*** beneficiary group, level
*** output one dataset for each group
*****************
%MACRO GETPROP(BYVAR);
%LET START = %EVAL(&CMPNUM1+1);
%IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
 %ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=CACSMPL %THEN %LET PREF=D;
PROC MEANS NWAY NOPRINT DATA=HCSDB;
   CLASS BGROUP &BYVAR;
   VAR NUM&YR.V1-NUM&YR.V&COMPNUM
       DEN&YR.V1-DEN&YR.V&COMPNUM;
   WEIGHT &WGT;
   OUTPUT OUT= &PREF.CMPSUM(DROP = _TYPE_)
   SUM = ;
PROC MEANS NWAY NOPRINT DATA=normdata;
   CLASS &BYVAR;
   WAR
       DENV1-DENV&COMPNUM;
   WEIGHT &wgt.;
   OUTPUT OUT= &PREF.norms(DROP = _TYPE_)
   SUM = nrmv1-nrmv&compnum;
RUN;
PROC MEANS NWAY NOPRINT DATA=HCSDB;
   CLASS BGROUP &BYVAR;
   VAR DEN&YR.V1-DEN&YR.V&COMPNUM;
   OUTPUT OUT=&PREF.DGFR(DROP=_TYPE_ _FREQ_)
   SUM= NOBS&YR.V1-NOBS&YR.V&COMPNUM;
RIIN;
data &pref.cmpsum;
if _n_=1 then set &pref.norms;
set &pref.cmpsum;
proc sort data=&pref.cmpsum; by bgroup &byvar;
DATA &PREF.CMPSUM;
   MERGE &PREF.CMPSUM(RENAME=(_FREQ_=N_OBS&YR.))
         &PREF.DGFR;
   BY BGROUP &BYVAR;
   %IF &PREF=M %THEN %DO; /** added 7/10/2000 **/
      WHERE 1 <= XSERVAFF <= 5;
                                       /** RSG 01/2005 Change USA values to keep to be between
                                        /*MER 11/11/2012 Changed from 4 to 5 for Joint Service
   %END;
   %ELSE %IF &PREF=C %THEN %DO;
       WHERE USA = 1;
   %END;
   **** set up group variable **;
   RENAME BGROUP=GROUP;;
   **** set up proportions, and composites **;
```

```
ARRAY PROPORT PROP&YR.V1-PROP&YR.V&COMPNUM;
  ARRAY NUMER NUM&YR.V1-NUM&YR.V&COMPNUM;
  ARRAY DENOM
               DEN&YR.V1-DEN&YR.V&COMPNUM;
  array norm
               nrmv1-nrmv&compnum;
  DO J=1 TO DIM(PROPORT);
     PROPORT(J) = NUMER(J)/DENOM(J);
  END;
  DROP J;
  **** composites **;
** added goalvars to datastep, 5/30/2000
** taken out of temporary array for variance calculations;
** and used, kept as variables
 GOALVAR1=&GOALVAR1;
  GOALVAR2=&GOALVAR2;
 GOALVAR3=&GOALVAR3;
 GOALVAR4=&GOALVAR4;
 GOALVAR5=&GOALVAR5;
 GOALVAR6=&GOALVAR6;
/*RSG 04/2005 - delete goal8 since chol eliminated*/
\ensuremath{^{**}} the weight for preventive service is defined as the
** proportion of the denominator for that service to the
** composite denominator
                                                               ;
** healthy people 2000 goals -- used as benchmarks
 ARRAY SVCWGT(&COMPNUM) WGT&YR.V1-WGT&YR.V&COMPNUM;
          BMARK(&COMPNUM) GOALVAR1-GOALVAR&COMPNUM;
 ARRAY WGTBMARK(&COMPNUM) WTD&YR.V1-WTD&YR.V&COMPNUM;
 array comp(&compnum) cmp&yr.v1-cmp&yr.v&compnum;
cpden1=sum(of nrmv1-nrmv&cmpnum1);
cpden2=sum(of nrmv&start-nrmv&compnum);
 DO K = 1 TO &COMPNUM;
     IF K < &START THEN SVCWGT(K) = norm(K)/CPDEN1;</pre>
     ELSE SVCWGT(K) = norm(K)/CPDEN2;
     WGTBMARK(K) = SVCWGT(K)*BMARK(K);
     comp(k)=svcwgt(k)*proport(k);
  END;
  DROP K;
  CP&YR.BMK1=SUM(OF WTD&YR.V1-WTD&YR.V&CMPNUM1);
  CP&YR.BMK2=SUM(OF WTD&YR.V&START-WTD&YR.V&COMPNUM);
  comp&yr.1=sum(of cmp&yr.v1-cmp&yr.v&cmpnum1);
  comp&yr.2=sum(of cmp&yr.v&start-cmp&yr.v&compnum);
  DROP WGT&YR.V1-WGT&YR.V&COMPNUM WTD&YR.V1-WTD&YR.V&COMPNUM
       NUM&YR.V1-NUM&YR.V&COMPNUM;
RUN;
%IF &DEBUG=Y AND &PREF=R %THEN %DO;
     PROC PRINT DATA=&PREF.CMPSUM; /* print out final dataset */
    RUN;
                                       /* for region to check
%END;
%MEND GETPROP;
%GETPROP(USA);
%GETPROP(XSERVAFF);
%GETprop(XSERVREG);
%GETPROP(XTNEXREG);
%GETProp(CACSMPL);
*************
** since MHS benchmarks will be displayed
                                                   ****
** set up adjustment factor to apply to
                                                   ****
** each analytical unit's composite benchmarks
```

```
DATA ADJUST;
  SET MCMPSUM(KEEP=GROUP CP&YR.BMK1 CP&YR.BMK2);
                         /** use all beneficiaries **/
  WHERE GROUP=8;
  RENAME CP&YR.BMK1=MHS&YR.BM1;
  RENAME CP&YR.BMK2=MHS&YR.BM2;
  DROP GROUP;
RUN;
****************
*** Macro to merge 3 datasets for each
*** called by analytical unit
*** output final dataset for
*** XSERVAFF, XSERVREG, XTNEXREG, MHS (USA)
********************************
PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
  VALUE REGIONF
     0 = "USA MHS "
     1 = "NORTH"
     2 = "SOUTH"
     3 = "WEST"
     4 = "OVERSEAS"
%MACRO GETSIG(BYVAR);
%LET START = %EVAL(&CMPNUM1+1);
%LET NEXT = %EVAL(&CMPNUM1+2);
%IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
 %ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=CACSMPL %THEN %LET PREF=D;
DATA OUT.&PREF.FINAL (KEEP= MAJGRP REGION REGCAT GOALVAR1-GOALVAR&COMPNUM
               SIG&YR.V1-SIG&YR.V&COMPNUM SCOR&YR.V1-SCOR&YR.V&COMPNUM
               CP&YR.SIG1-CP&YR.SIG&COMPCNT CP&YR.1SE CP&YR.2SE
               CP&YR.BMK1-CP&YR.BMK&COMPCNT
               SERR&YR.V1-SERR&YR.V&COMPNUM CP&YR.1SE CP&YR.2SE
               COMP&YR.1 COMP&YR.2 PROP&YR.V1-PROP&YR.V&COMPNUM
               DF&YR.SCR1-DF&YR.SCR&COMPNUM DF&YR._CP1 DF&YR._CP2
               NOBS&YR.V1-NOBS&YR.V&COMPNUM CP&YR.OBS1-CP&YR.OBS&COMPCNT
               DEN&YR.V1-DEN&YR.V&COMPNUM CP&YR.DEN1-CP&YR.DEN&COMPCNT);
 /** output a dataset to check **/
   /* OUT.&PREF.CHECK(DROP=DROP=SESQ&YR.V1-SESQ&YR.V&COMPNUM
                          PROP&YR.V1-PROP&YR.V&COMPNUM
                          SEM&YR.V11-SEM&YR.V&COMPNUM.&COMPNUM);*/
  FORMAT MAJGRP $30. REGION $30. REGCAT $42.; /* MER 11/11/12 - Updated REGION for Joint Service
facilities */
  %IF &PREF=D %THEN %DO;
     MERGE OBSCNT(IN=IN_OBS) &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
           &PREF.SERR;
     BY GROUP &BYVAR;
     IF IN_OBS;
  %END;
   %ELSE %DO;
     MERGE &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
           &PREF.SERR;
     BY GROUP &BYVAR;
     IF IN_PROP;
   %END;
```

```
/** MAJGRP -- text field for group
    IF GROUP=1 THEN MAJGRP="Prime Enrollees
ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
ELSE IF GROUP=5 THEN MAJGRP="Active Duty
                                                                ";
ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents
ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents
ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries
/**** REGION AND REGCAT SETUP
                                          **/
%IF &PREF=D %THEN %DO;
   REGCAT=PUT(CACSMPL, CACR.);
   REGION=PUT(XSERVind, SERVREGo.);
%END;
%IF &PREF=S %THEN %DO;
    REGCAT=PUT(XTNEXREG,REGIONF.);
    REGION=PUT(XTNEXREG,REGIONF.);
%END;
%else %IF &PREF=C %THEN %DO;
    REGION="USA MHS";
    REGCAT="USA MHS";
%END;
%ELSE %IF &PREF=R %THEN %DO;
    REGION=PUT(XSERVREG, SERVREGo.);
    REGCAT=PUT(XSERVREG, SERVREGo.);
%END;
                                                       /** RSG 1/2005 Add codes for service grouping
%ELSE %IF &PREF=M %THEN %DO;
    REGION=PUT(XSERVAFF, XSERVAFF.);
    REGCAT=PUT(XSERVAFF, XSERVAFF.);
/**** setup t statistics, degreees of freedom
ARRAY
          TSTAT { & COMPNUM } T_&YR.V1-T_&YR.V&COMPNUM;
ARRAY BMARK &COMPNUM GOALVAR1-GOALVAR&COMPNUM;
ARRAY STNDERR &COMPNUM SERR&YR.V1-SERR&YR.V&COMPNUM;
ARRAY SERRSQR &COMPNUM SESQ&YR.V1-SESQ&YR.V&COMPNUM;
ARRAY
         DEGF{&COMPNUM} DF&YR.SCR1-DF&YR.SCR&COMPNUM;
ARRAY
          DENOM { & COMPNUM } DEN&YR.V1-DEN&YR.V&COMPNUM;
ARRAY PROPORT { & COMPNUM } PROP&YR.V1-PROP&YR.V&COMPNUM;
ARRAY SCORE (&COMPNUM) SCOR&YR.V1-SCOR&YR.V&COMPNUM;
        PVALUE (&COMPNUM) PVAL&YR.V1-PVAL&YR.V&COMPNUM; SIG (&COMPNUM) SIG&YR.V1-SIG&YR.V&COMPNUM;
ARRAY
ARRAY
         N_OBS{&COMPNUM} NOBS&YR.V1-NOBS&YR.V&COMPNUM;
array norm{&compnum} nrmv1-nrmv&compnum;
/** get the item variance, t-statistics, df, p-values **/
/** and whether significant
DO I=1 TO &COMPNUM;
    \begin{split} & \texttt{SERRSQR}\{\texttt{I}\} \texttt{=STNDERR}\{\texttt{I}\} \texttt{**2}; & / \texttt{*} \; \; \texttt{Item variance */} \\ & \texttt{SCORE}\{\texttt{I}\} \texttt{=PROPORT}\{\texttt{I}\} \texttt{*100}; & / \texttt{*} \; \; \texttt{Score (prop. * 100) */} \\ \end{aligned} 
   ELSE TSTAT{I}=.;
   DEGF{I}=N_OBS{I}-1;
   PVALUE{I}=(1-PROBT(ABS(TSTAT{I})),DEGF{I}))*2;
   IF PVALUE{I} GE .05 THEN SIG{I}=0;
   ELSE IF PVALUE{I} < .05 THEN DO;</pre>
      IF PROPORT{I} > BMARK{I} THEN SIG{I}=1;
      IF PROPORT{I} < BMARK{I} THEN SIG{I}=-1;</pre>
   END;
END;
DROP I;
/** multiply each item pair std. errors and correlation coefficients **/
/** preventive care composite
ARRAY SERRC1 { & CMPNUM1 } SERR&YR.V1-SERR&YR.V&CMPNUM1;
```

```
ARRAY SEwC1 { & CMPNUM1 } SEw&YR.V1-SEw&YR.V&CMPNUM1;
   %DO J = 1 %TO &CMPNUM1;
     ARRAY SMEAN&J{&CMPNUM1} SEM&YR.V&J.1-SEM&YR.V&J.&CMPNUM1;
      ARRAY CORVAR&J{&CMPNUM1} COR&YR.V&J.1-COR&YR.V&J.&CMPNUM1;
      DO K=1 TO &CMPNUM1;
         SMEAN&J{K}=SERR&YR.V&J*SERRC1{K}*CORVAR&J{K}*norm{K}*nrmV&J;
      SEM&YR.V&J.&J=0; /** don't count in final standard error calculation **/
      sew&yr.v&j= (nrmV&j**2)*SESQ&YR.V&j;
      %END;
   DROP K;
   /** multiply each item pair std. errors and correlation coefficients **/
   /** access to care composite
   ARRAY SERRC2{&CMPNUM2} SERR&YR.V&START-SERR&YR.V&COMPNUM;
   %DO L = &START %TO &COMPNUM;
     ARRAY SMEAN&L{&CMPNUM2} SEM&YR.V&L.&START-SEM&YR.V&L.&COMPNUM;
      ARRAY CORVAR&L{&CMPNUM2} COR&YR.V&L.&START-COR&YR.V&L.&COMPNUM;
      DO M=1 TO &CMPNUM2;
        SMEAN&L{M}=SERR&YR.V&L*SERRC2{M}*CORVAR&L{M};
      SEM&YR.V&L.&L=0; /** don't coun't in final standard error calculation **/
    %END;
   DROP M;
  /** calculate composite t-statistic, pvalue, and whether significant **/
  /** for composites
   %DO P=1 %TO &COMPCNT;
       %IF &P=1 %THEN %DO;
          /** composite standard error comprised of two parts **/
         CP&YR.&P.SE1=SUM(OF SEW&YR.V1-SEW&YR.V&CMPNUM1);
         CP&YR.&P.SE2=SUM(OF SEM&YR.V11-SEM&YR.V&CMPNUM1.&CMPNUM1.);
         cp&yr.obs&p=sum(of nobs&yr.v1-nobs&yr.v&cmpnum1);
         cp&yr.den&p=sum(of nrmv1-nrmv&cmpnum1);
       %END;
       %ELSE %DO;
         CP&YR.&P.SE1=SUM(OF SESO&YR.V&START-SESO&YR.V&COMPNUM);
          CP&YR.&P.SE2=SUM(OF SEM&YR.V&START.&START.-SEM&YR.V&COMPNUM.&COMPNUM.);
      %END;
    /** add the two parts of the composite standard error **/
    /** calculate the composite t statistics and p-values **/
    /** determine whether differences re sigificant
    /**RSG - 02/2005 Some of the following codes will produce some
             "error" (e.g., fields that are not initialized) - these
             are "leftover" codes from previous versions of the survey
             where 2 composite scores were produced. Now since we only
            use 1 composite score, these are basically calculations that
            are not used...but kept in "just in case" **/
      IF CP&YR.DEN&P > 0 THEN CP&YR.&P.SE=SQRT(CP&YR.&P.SE2+CP&YR.&P.SE1)/cp&yr.den&P; /*RSG
02/2005 prevent division by zero*/
      ELSE CP&YR.&P.SE = .;
      IF CP&YR.&P.SE > 0 THEN CP&YR._T&P.=(COMP&YR.&P.-CP&YR.BMK&P.)/CP&YR.&P.SE;
      ELSE CP&YR._T&P.= .;
      DF&YR._CP&P.=CP&YR.OBS&P. - 1;
      CP&YR._P&P.=(1-PROBT(ABS(CP&YR._T&P.),DF&YR._CP&P.))*2;
      IF CP&YR._P&P GE .05 THEN CP&YR.SIG&P=0;
      ELSE IF CP&YR._P&P < .05 THEN DO;
          IF COMP&YR.&P. > CP&YR.BMK&P THEN CP&YR.SIG&P= 1;
         ELSE IF COMP&YR.&P. < CP&YR.BMK&P THEN CP&YR.SIG&P=-1;
      END;
    %END;
   OUTPUT OUT.&PREF.FINAL;
    /*%IF &PREF=M %THEN %DO;
      OUTPUT OUT.&PREF.CHECK;
    %END; */
```

```
RUN;
%MEND GETSIG;

/** RSG 02/2005 - Any errors relating to unintialized fields such as
    cp&yr.den2 or cp&yr.obs2 can be ignored - these (as well as field
    that uses these fields for calculations, e.g. df&yr._cp2, are not
    used **/
%GETSIG(USA);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);
%GETSIG(CACSMPL);
```

G.12.B ReportCards\MPR_Adult2013\smoking_BMI.sas - Calculate Healthy Behavior Composite Scores - Annual.

```
Project:
             DoD Reporting and Analysis 6077-410
  Program:
             SMOKING_BMI.SAS
             Calculate Smoking Rate and Smoking Cessation
  Purpose:
              for each region-service affiliation and
             conus-service affiliation groups.
  Date:
             1/31/2005
  Author:
             Regina Gramss
  Modified: 1) 04/2005 By Regina Gramss, Updated for Q1 2005.
              2) 12/2005 By Regina Gramss, Updated for Q4 2005.
              3) 01/2006 By Regina Gramss - Updated for 2005 annual data. Normalize
                 with 2005 data and not 2000. Standardize using age/sex and MPCSMPL
                 (military personnel category). Update smoking cessation
                 calculation with new formula to correspond more to HEDIS.
                weight (CFWT) and use STRATUM as TMP_CELL.
              4) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
              5) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
              6) 08/24/2006 By Justin Oh, REGNUM changed from 16 to 24.
                 Changed XSERVREG for Overseas
                 Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                        IF XINS_COV IN (3)
                                               THEN GROUP4 = 1
                 Since only XINS_COV IN (1,2,3,6) is kept.
                 Create XOCONUS for 2005 data.
                 Added/Moved LIBRARY Libname to use both Quarter/Annual Formats.
              7) 10/04/2006 By Justin Oh, Updated %LET DSN and CURRENT.
              8) 12/22/2006 By Justin Oh, Updated %LET DSN HCS071_1 and CURRENT October, 2006.
              9) 02/02/2007 By Justin Oh, Added "s" to Healthy Behaviors
             10) 04/05/2007 By Justin Oh, Updated %LET DSN HCS072_1 and CURRENT January, 2007.
            11) 04/05/2007 By Justin Oh, Added conditions for RC types
                            ReportCards OR PurchasedReportCards.
            12) 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
                           both Norm and Quarter datasets.
             13) 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
                            Groups 1,3, and 4 for new reservists logic.
             14) 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
                            Groups All, 4, 5, and 6.
             15) 09/04/2007 By Justin Oh, Updated %LET DSN HCS074_1 and CURRENT July, 2007.
             16) 01/10/2008 By Keith Rathbun, Updated %LET DSN HCS081_1 and CURRENT October,
2007.
                           Also changed H07 variable names to be H08 to match 2008 survey.
             17) 04/11/2008 By Justin Oh, Updated %LET DSN HCS082_1 and CURRENT January, 2008.
             18) 06/13/2008 By Keith Rathbun, Updated %LET DSN HCS083_1 and CURRENT April, 2008.
            19) 03/11/2009 By Keith Rathbun, Updated %LET DSN HCS092_1 and CURRENT January,
2009.
             20) 04/20/2009 By Mike Rudacille, Switched from 2005 to 2007 benchmark data for
transition to
                 V4 questionnaire.
             21) 05/05/2009 By Mike Rudacille, Updated for 2008 benchmark data.
             22) 06/22/2009 By Keith Rathbun, Updated %LET DSN HCS093_1 and CURRENT April, 2009.
                Changed weight variable from FWRWT_V4 back to FWRWT.
             23) 09/30/2009 By Mike Rudacille, Updated %LET DSN HCS094_1 and CURRENT July, 2009.
             24) 09/10/2010 By Mike Rudacille, Updated for 2010 annual report
             25) 11/02/2010 By Mike Rudacille, Updated input datset from HCS10A_1 to HCS10A_2.
             26) 10/21/2012 By Mike Rudacille, Updated for 2012 annual report
             27) 11/11/2012 By Mike Rudacille Updated for handling of Joint Service facilities
   Inputs:
             1) HCS11A_2.sas7bdat - Annual 2011 Survey data
             2) HCS13A_2.sas7bdat - Annual 2013 Survey data
3) AC2011DB.sas7bdat - 2011 CAHPS Benchmark Data
             1) SMOKE.sas7bdat
```

OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMTERR;

```
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
                                                                          ***/
%LET RCTYPE = ReportCards;
LIBNAME BENCH
                    "..\..\..\2011AdultNCBD";
LIBNAME INDAT
                   "..\..\..\Data";
                   "..\..\..\2011\Data";
LIBNAME INNORM
                   ".";
LIBNAME OUT
LIBNAME LIBRARY '...\...\Data\fmtlib';
LIBNAME INGP '..\CAHPS_ADULT2013\DATA';
%LET DSN=HCS13A_2;
                                        /*JSO 08/24/2006, Changed Regions, 16 to 15*/ /* MER
%LET DSN_NORM=HCS11A_2;
11/03/12 15 to 18 */
%LET REGNUM = 18;
                                        /*RSG 01/2005 Number of Regions (with serv affiliation)*/
%LET CONNUM = 4;
                                        /*RSG 01/2005 Number of Conus level (with serv
affiliation)*/
%LET SRVNUM = 5;
                                        /*MER 11/03/2012 Number of service affiliations,
including Joint Service */
%LET CURRENT = 2013;
%LET WGT = CFWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999;
                                        /*RSG 02/2005 number of catchment areas **/
DATA BENCHA01;
  SET BENCH.AC2011DB (RENAME=(BIRTHYY=YOB));
   if product in (7,9) then model=4;
  if product=3 then model=2;
                                                 /*coded according to AC FORMATS.SAS*/
  if product=1 then model=1;
  if product=4 then model=6;
   if product=8 then model=5;
  if product=2 then model=3;
  product=planid;
/*if ^(model in (2,4)); */ *AMK 4/06/12 removed;
if disp in ('M10','I10') ;
if ac45_11 in (1,2) & ac46_11>=1 & ac46_11<=4; /*02/2006 RSG - REMOVED REQUIREMENT FOR
ADDITIONAL VISIT (ACC22 FIELD)*/
cessbnch=0;
if ac46_11>1 then cessbnch=1;
proc summary nway; class product;
var cessbnch;
output out=tbench mean=;
proc print;
proc summary;
var cessbnch;
output out=tbench mean=;
proc print;
data null;
set tbench;
call symput('CNSLGOAL',cessbnch);
run;
%LET NSMKGOAL = 0.88;
%LET BMIGOAL = 0.69;
%INCLUDE "..\..\LoadWeb\LOADCAHQ.INC";
PROC FORMAT;
VALUE AGEF
LOW - 34 = 1
35 - 49 = 2
50 - 64 = 3
65 - HIGH = 4;
^{\prime \star} 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats ^{\star \prime}
DATA NORMDATA (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF
                    SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
                    TOTCON GROUP XSEXA &WGT. age_n MPCSMPL CACSMPL NXNS_COV);
                    /* 05/10/2007 JSO Added NXNS_COV in the keep statement */
```

```
SET INNORM.&DSN_NORM. (DROP=CACSMPL) ;
LENGTH AGE_N AGE_GRP TMP_CELL 8.;
TMP_CELL=STRATUM;
AGE_N = FIELDAGE;
AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;
IF SERVAFF = 'A' THEN XSERVAFF = 1;
                                           *Army;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;
                                           *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;
                                           *Navy;
ELSE XSERVAFF = 4;
                                           *Other/unknown;
IF XCATCH = 37 THEN XCATCH = 67; /* Recode for combining of Walter Reed facilities */
IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
IF XTNEXREG = 1 THEN DO;
   IF XSERVAFF = 1 THEN XSERVREG = 1;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
   ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
  ELSE XSERVREG = 5;
IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 6;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
   ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
   ELSE XSERVREG = 10;
END;
IF XTNEXREG = 3 THEN DO;
   IF XSERVAFF = 1 THEN XSERVREG = 11;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
   ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
   ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
  ELSE XSERVREG = 15;
IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
  IF XREGION = 13 THEN XSERVREG = 16;
   ELSE IF XREGION = 14 THEN XSERVREG = 17;
  ELSE IF XREGION = 15 THEN XSERVREG = 18;
END;
IF HP_SMKH3 IN (1,2) THEN DO;
   SM_RATE = 0;
   IF HP_SMKH3 = 2 THEN SM_RATE=1;
   SM_RTDN=1;
/* MER 3/31/11 Start using HP_CESH3 instead of re-creating work already done in convarq */
IF HP_CESH3 IN (1,2) THEN DO;
  SM\_CESS = 0;
  IF HP_CESH3 = 1 THEN SM_CESS=1;
  SM_CSDN=1;
END;
IF xbmicat > 0 THEN DO;
   BMI = 0;
   BMI_DN=1;
   IF xbmicat <=3 THEN BMI=1;</pre>
END;
IF XTNEXREG IN (1,2,3) THEN TOTCON=1;
ELSE IF XTNEXREG = 4 THEN TOTCON=2;
```

```
IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */
/* AMK 8/02/12 - New logic for handling out of catchment OCONUS */
IF XCATCH = 9904 THEN DO;
   IF XSERVREG <=5 THEN XCATCH=9901;</pre>
   ELSE IF XSERVREG <=10 THEN XCATCH=9902;
   ELSE IF XSERVREG <=15 THEN XCATCH=9903;
   ELSE IF XSERVREG = 16 THEN XCATCH=9905;
   ELSE IF XSERVREG = 17 THEN XCATCH=9906;
   ELSE IF XSERVREG = 18 THEN XCATCH=9907;
END;
RENAME XCATCH=CACSMPL &NORMWGT = &WGT;
IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
IF XTNEXREG = .
                  THEN DELETE;
IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
Added 10,11*/
NXNS_COV = XINS_COV;
                                  /*JSO 04/26/2007 added for reservists logic*/
                                  /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD', 'IGR') AND H11003 = 3 THEN DO;
  NXNS_COV = 3;
   XENR\_PCM = .;
END;
* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H11004>=2 THEN DO;
  GROUP=1;
   OUTPUT;
END;
* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF XENR_PCM IN (1,2,6) AND H11004>=2 THEN DO;
   GROUP=2;
   OUTPUT;
END;
* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM = 3 AND H11004>=2 THEN DO;
  GROUP=3;
  OUTPUT;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
   ((XENR_PCM = 3 AND H11004>=2) OR NXNS_COV IN (3,9,10)) THEN DO; /*JSO 07/30/2007, Added 9*/
   GROUP=3;
   OUTPUT;
END;
* nonenrollees;
IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
                                 /*JSO 07/30/2007, Added 9*/
   GROUP=4;
   OUTPUT;
END;
* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
   GROUP=5;
                 /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;
* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR')THEN DO;
   GROUP=6;
                  /*JSO 07/30/2007, added DBENCAT conditions*/
   OUTPUT;
END;
```

```
* retirees;
IF XBNFGRP IN (3,4) THEN DO;
  GROUP=7;
  OUTPUT;
END;
* all beneficiaries;
GROUP=8;
OUTPUT;
RUN;
DATA SMOKE (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF TOTCON GROUP
                SM_RATE SM_CESS SM_RTDN SM_CSDN XSEXA &WGT BMI_DN BMI
                CACSMPL MPCSMPL NXNS_COV);/* 05/10/2007 JSO Added NXNS_COV in the keep statement
SET INDAT.&DSN. (DROP=CACSMPL);
LENGTH AGE_N AGE_GRP TMP_CELL 8.;
/* MER 4/20/09 - Restrict dataset to just non-zero V4 weights */
*IF &WGT <= 0 THEN DELETE;
TMP_CELL=STRATUM;
AGE_N = FIELDAGE;
AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE GRP < 4;
IF SERVAFF='A' THEN XSERVAFF=1;
                                            *Army;
  ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                            *Air Force;
  ELSE IF SERVAFF='N' THEN XSERVAFF=3;
                                            *Navy;
  ELSE XSERVAFF=4;
IF XCATCH = 37 THEN XCATCH = 67; /* Recode for combining of Walter Reed facilities */
IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
  ELSE XSERVREG = 5;
END;
IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 6;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
  ELSE XSERVREG = 10;
END;
IF XTNEXREG = 3 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 11;
  ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
  ELSE XSERVREG = 15;
END;
IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
  ELSE IF XREGION = 14 THEN XSERVREG = 17;
  ELSE IF XREGION = 15 THEN XSERVREG = 18;
END;
IF XSERVREG = . THEN DELETE; /* MER 11/10/10 - Deletes records with imputed TNEXREG = '0' */
                             /* and missing XOCONUS. (Only applies to CACSMPL = 9904) */
IF XTNEXREG IN (1,2,3) THEN TOTCON=1;
```

```
ELSE IF XTNEXREG=4 THEN TOTCON=2;
IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */
/* AMK 8/02/12 - New logic for handling out of catchment OCONUS */
IF XCATCH = 9904 THEN DO;
   IF XSERVREG <=5 THEN XCATCH=9901;</pre>
  ELSE IF XSERVREG <=10 THEN XCATCH=9902;
   ELSE IF XSERVREG <=15 THEN XCATCH=9903;
  ELSE IF XSERVREG = 16 THEN XCATCH=9905;
  ELSE IF XSERVREG = 17 THEN XCATCH=9906;
   ELSE IF XSERVREG = 18 THEN XCATCH=9907;
END;
RENAME XCATCH=CACSMPL;
IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
IF XTNEXREG = . THEN DELETE;
IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/
NXNS_COV = XINS_COV;
                                   /*JSO 04/26/2007 added for reservists logic*/
                                   /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR\_PCM = .;
END;
IF HP_SMKH3 IN (1,2) THEN DO;
  SM RATE = 0;
   IF HP_SMKH3 = 2 THEN SM_RATE=1;
  SM_RTDN=1;
END;
^{\prime\prime} MER 10/07/11 Start using HP_CESH3 instead of re-creating work already done in convarq */
IF HP_CESH3 IN (1,2) THEN DO;
   SM\_CESS = 0;
   IF HP_CESH3 = 1 THEN SM_CESS=1;
  SM_CSDN=1;
END:
IF xbmicat > 0 THEN DO;
   BMI = 0;
   BMI_DN=1;
  IF xbmicat <=3 THEN BMI=1;</pre>
END;
* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H13004 >= 2 THEN DO;
  OUTPUT;
END;
* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF XENR_PCM IN (1,2,6) AND H13004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;
* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR\_PCM = 3 AND H13004>=2 THEN DO;
  GROUP=3;
  OUTPUT;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  ((XENR_PCM = 3 AND H13004>=2) OR NXNS_COV IN (3,9,10)) THEN DO; /*JSO 07/30/2007, Added 9*/
  GROUP=3;
   OUTPUT;
```

```
END;
* nonenrollees;
IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/ \,
                             /*JSO 07/30/2007, Added 9*/
   OUTPUT;
END;
* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
   GROUP=5;
              /*JSO 07/30/2007, added DBENCAT conditions*/
   OUTPUT;
END;
* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
   GROUP=6;
                 /*JSO 07/30/2007, added DBENCAT conditions*/
   OUTPUT;
END;
* retirees;
IF XBNFGRP IN (3,4) THEN DO;
   GROUP=7;
  OUTPUT;
END;
* all beneficiaries;
GROUP=8;
OUTPUT;
RUN;
proc freq;
table xservreg*cacsmpl/list;
run;
PROC SORT DATA=SMOKE;
BY TMP_CELL;
PROC SORT DATA=NORMDATA;
BY TMP_CELL;
%MACRO A_SUDAAN(TABLEVAR,SMOKE,SMOKEVAR,DEN);
%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
    %LET ENDNUM=&REGNUM;
    %LET PREF=R;
%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
   %LET ENDNUM=&SRVNUM;
   %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
    %LET ENDNUM=&CONNUM;
   %LET PREF=S;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=CACSMPL %THEN %DO; /**RSG 02/2005 add code to calc by CACSMPL**/
   %LET ENDNUM=&CATCHNUM;
   %LET PREF=D;
%ELSE %IF %UPCASE(&TABLEVAR)=TOTCON %THEN %LET PREF=C;
%DO I = 1 %TO 8;
    DATA INDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA CACSMPL MPCSMPL
                       &SMOKEVAR. &DEN. TMP_CELL XTNEXREG);
    SET SMOKE;
    WHERE XSERVREG > 0 AND GROUP=&I. AND &DEN. >= 0;
       %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
          IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /* MER 11/11/12 - Changed 4 to 5 */
```

```
%IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
      IF TOTCON NE 1 THEN DELETE;
   %END;
   %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
       IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
   %END;
RUN;
    DATA NORMDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA &SMOKEVAR. &DEN.
                         TMP_CELL XTNEXREG MPCSMPL);
        SET NORMDATA;
            WHERE XSERVREG > 0 AND GROUP=&I.;
            %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
                IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /* MER 11/11/12 - Changed 4 to 5
            %END;
        %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
            IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
        %END;
        RIIN;
    %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
                PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
                WEIGHT &WGT;
                SETENV DECWIDTH=4;
                NEST TMP_CELL / missunit;
                VAR &SMOKEVAR;
                TABLES AGE_GRP*XSEXA*MPCSMPL*&TABLEVAR.;
                SUBGROUP AGE_GRP XSEXA MPCSMPL &TABLEVAR.;
                LEVELS 8 2 2 & ENDNUM.;
                OUTPUT SEMEAN MEAN wsum nsum
                        / TABLECELL=DEFAULT REPLACE
                          FILENAME=&PREF.GRP&I.&SMOKE.;
                RIIN;
    %END;
    %ELSE %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
                PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
                WEIGHT &WGT;
                SETENV DECWIDTH=4;
                NEST TMP_CELL / missunit;
                VAR &SMOKEVAR;
                TABLES AGE_GRP*XSEXA*MPCSMPL;
                SUBGROUP AGE GRP XSEXA MPCSMPL;
                LEVELS 3 2 2;
                OUTPUT SEMEAN MEAN wsum nsum
                        / TABLECELL=DEFAULT REPLACE
                          FILENAME=&PREF.GRP&I.&SMOKE.;
                RUN;
    %END;
%IF %UPCASE(&SMOKE) NE CS %THEN %DO;
       DATA &PREF.SER_&I.&SMOKE.;
       SET &PREF.GRP&I.&SMOKE.;
       GROUP=&I.;
       IF SEMEAN NE .;
       %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
           KEEP &TABLEVAR. GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
       %END;
       %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
           TOTCON=1;
           KEEP TOTCON GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
       %END;
    RUN;
    /* CREATE WEIGHTS FROM 2005 DATA*/
    proc summary data=normdat&i. nway;
            var &WGT;
            where &den>0;
```

class age_grp xsexa MPCSMPL;

```
output out=norm_&i. sum=normwt;
           proc sort data=&pref.ser_&i.&smoke.;
           by age_grp xsexa mpcsmpl;
          data &pref.ser_&i.&smoke.;
          merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
          by age_grp xsexa mpcsmpl;
          if gin;
           wsum=wsum/normwt;
          nsum=nsum/normwt;
           sesq=normwt*semean**2;
          proc summary data=&pref.ser_&i.&smoke. nway;
          var mean semean sesq wsum nsum;
           class &tablevar.;
          weight normwt;
           output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)= sumwgt(semean)=;
          run;
  data &pref.sert&i.&smoke;
     set &pref.sert&i.&smoke;
     group=&i.;
             semean=sqrt(sesq/semean);
     drop _type_ _freq_;
  run;
   %IF &I. = 1 %THEN %DO;
      DATA &PREF._&SMOKE.;
      SET &PREF.SERT&I.&SMOKE.;
      RUN;
   %ELSE %DO;
      DATA &PREF._&SMOKE.;
               SET &PREF._&SMOKE. &PREF.SERT&I.&SMOKE.;
      RUN;
      PROC SORT DATA=&PREF._&SMOKE.;
      BY GROUP;
      RUN;
   %END;
%END;
  %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
               PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
               WEIGHT &WGT;
               SETENV DECWIDTH=4;
               NEST TMP_CELL / missunit;
               VAR &SMOKEVAR;
               TABLES AGE_GRP*XSEXA*&TABLEVAR.;
               SUBGROUP AGE_GRP XSEXA &TABLEVAR.;
               LEVELS 3 2 & ENDNUM.;
               OUTPUT SEMEAN MEAN wsum nsum
                       / TABLECELL=DEFAULT REPLACE
                         FILENAME=&PREF.GRP&I.&SMOKE.;
               RIIN;
   %END;
   %ELSE %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
               PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
               WEIGHT &WGT;
               SETENV DECWIDTH=4;
               NEST TMP_CELL / missunit;
               VAR &SMOKEVAR;
               TABLES AGE_GRP*XSEXA;
               SUBGROUP AGE_GRP XSEXA;
               LEVELS 3 2 ;
               OUTPUT SEMEAN MEAN wsum nsum
                       / TABLECELL=DEFAULT REPLACE
                         FILENAME=&PREF.GRP&I.&SMOKE.;
```

```
RUN;
    %END;
%IF %UPCASE(&SMOKE) = CS %THEN %DO;
       DATA &PREF.SER_&I.&SMOKE.;
       SET &PREF.GRP&I.&SMOKE.;
       GROUP=&I.;
       IF SEMEAN NE .;
       %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
          KEEP &TABLEVAR. GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
       %END;
       %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
           TOTCON=1;
           KEEP TOTCON GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
       %END;
    RUN;
    /* CREATE WEIGHTS FROM 2005 DATA*/
   proc summary data=normdat&i. nway;
            var &WGT;
            where &den>0;
            class age_grp xsexa;
            output out=norm_&i. sum=normwt;
            proc sort data=&pref.ser_&i.&smoke.;
            by age_grp xsexa;
            data &pref.ser_&i.&smoke.;
            merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
            by age_grp xsexa;
            if gin;
            wsum=wsum/normwt;
            nsum=nsum/normwt;
            sesq=normwt*semean**2;
            proc summary data=&pref.ser_&i.&smoke. nway;
            var mean semean sesq wsum nsum;
            class &tablevar.;
            weight normwt;
            output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)= sumwgt(semean)=;
            run;
    data &pref.sert&i.&smoke;
       set &pref.sert&i.&smoke;
               semean=sqrt(sesq/semean);
       drop _type_ _freq_;
    run;
     %IF &I. = 1 %THEN %DO;
     DATA &PREF._CESS;
     SET &PREF.SERT&I.&SMOKE.;
     RUN;
     %END;
     %ELSE %DO;
     DATA &PREF._CESS;
           SET &PREF._CESS &PREF.SERT&I.&SMOKE.;
     PROC SORT DATA=&PREF._CESS;
     BY GROUP;
```

RUN;

```
%END;
     %END;
%END;
%MEND;
%A_SUDAAN(XSERVAFF,RT,SM_RATE,SM_RTDN);
\Delta_SUDAAN(XSERVAFF,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVAFF,BM,BMI,BMI_DN);
%A_SUDAAN(XSERVREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVREG,BM,BMI,BMI_DN);
A\_SUDAAN(XTNEXREG,RT,SM\_RATE,SM\_RTDN);
%A_SUDAAN(XTNEXREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XTNEXREG,BM,BMI,BMI_DN);
%A_SUDAAN(TOTCON,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(TOTCON,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(TOTCON,BM,BMI,BMI_DN);
%A_SUDAAN(CACSMPL,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(CACSMPL,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(CACSMPL,BM,BMI,BMI_DN);
%MACRO ADDIT(PREF, TYPE);
DATA &PREF._&TYPE;
SET &PREF._&TYPE;
LENGTH BENEFIT $34. BENTYPE $50.;
BENEFIT="Healthy Behaviors";
    %IF &TYPE=RT %THEN %DO;
       BENTYPE="Non-Smoking Rate";
    %END;
    %IF &TYPE=CESS %THEN %DO;
       BENTYPE="Counselled To Quit";
    %IF &TYPE = BM %THEN %DO;
        BENTYPE = "Percent Not Obese";
    %END;
RUN;
%MEND;
%ADDIT(C,RT);
%ADDIT(C,CESS);
%ADDIT(C,BM);
%ADDIT(M,RT);
%ADDIT(M,CESS);
%ADDIT(M,BM);
%ADDIT(R,RT);
%ADDIT(R,CESS);
%ADDIT(R,BM);
%ADDIT(S,RT);
%ADDIT(S,CESS);
%ADDIT(S,BM);
%ADDIT(D,RT);
%ADDIT(D,CESS);
%ADDIT(D,BM);
proc freq data=ingp.group8 noprint;
tables cacsmpl*xservind / list out=cacformat(drop=count percent);
%MACRO MAKEDATA(PREF, TABLEVAR);
 DATA &PREF._SMOKE;
  SET &PREF._RT
       &PREF._CESS
       &PREF._BM
  LENGTH MAJGRP $30. REGION $30. REGCAT $42.; /* MER 11/11/2012 - Updated REGION for Joint
Service facilities */
```

```
GROUP=1 THEN MAJGRP="Prime Enrollees
   ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
   ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
   ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
   ELSE IF GROUP=5 THEN MAJGRP="Active Duty
   ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents
   ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents
   ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries
   %IF &TABLEVAR = XSERVAFF %THEN %DO;
       IF XSERVAFF = 1 THEN REGION = 'ARMY';
        IF XSERVAFF = 2 THEN REGION = 'AIR FORCE';
        IF XSERVAFF = 3 THEN REGION = 'NAVY';
       IF XSERVAFF = 4 THEN REGION = 'OTHER';
           IF XSERVAFF = 5 THEN REGION = 'JOINT SERVICE'; /* MER 11/11/12 - Added for Joint
Service facilities */
   %END;
   %IF &TABLEVAR = XSERVREG %THEN %DO;
       REGION = PUT(XSERVREG,SERVREGO.); /*JSO 08/24/2006, Create new format for Overseas*/
    %END;
   %IF &TABLEVAR = XTNEXREG %THEN %DO;
        IF XTNEXREG=1 THEN REGION="NORTH";
        ELSE IF XTNEXREG=2 THEN REGION="SOUTH";
        ELSE IF XTNEXREG=3 THEN REGION="WEST";
        ELSE IF XTNEXREG=4 THEN REGION="OVERSEAS";
   %END;
    %IF &TABLEVAR = TOTCON %THEN %DO;
       REGION = "USA MHS";
 %IF &TABLEVAR = CACSMPL %THEN %DO; /*RSG 02/2005 Add CACSMPL**/
       REGCAT = PUT(CACSMPL, CACR.);
       REGION = ' ';
        %END;
    %IF &TABLEVAR NE CACSMPL %THEN %DO;
        REGCAT=REGION;
        DROP GROUP &TABLEVAR;
        %END;
        %IF &TABLEVAR = CACSMPL %THEN %DO; /*RSG 02/2005 Add CACSMPL**/
        REGCAT = PUT(CACSMPL, CACR.);
       REGION = ' ';
        %END;
   %IF &TABLEVAR NE CACSMPL %THEN %DO;
       REGCAT=REGION;
        DROP GROUP &TABLEVAR;
        %END;
   IF &TABLEVAR NE 0;
  %IF &TABLEVAR = CACSMPL %THEN %DO;
     PROC SORT DATA=&PREF._SMOKE;
     BY CACSMPL;
     DATA &PREF._SMOKE;
      MERGE &PREF._SMOKE (IN=A) CACFORMAT (IN=B);
     BY CACSMPL;
      IF A;
     REGION=PUT(XSERVind,SERVREGO.);
     DROP GROUP &TABLEVAR XSERVREG;
     RUN;
    %END;
```

```
%MEND MAKEDATA;
%MAKEDATA(M,XSERVAFF);
%MAKEDATA(C,TOTCON);
%MAKEDATA(R,XSERVREG);
%MAKEDATA(S,XTNEXREG);
%MAKEDATA(D,CACSMPL);
DATA SMOKE;
SET M_SMOKE R_SMOKE S_SMOKE C_SMOKE D_SMOKE;
SESQ = SEMEAN**2;
RENAME MEAN=SCORE wsum=n_wgt nsum=n_obs;
RUN;
/* CALCULATE COMPOSITE SCORE - AVERAGE RATE AND CESSATION*/
PROC SORT DATA=SMOKE;
BY MAJGRP REGION REGCAT;
PROC SUMMARY DATA=SMOKE SUM;
BY MAJGRP REGION REGCAT;
VAR SCORE SESQ N_WGT N_OBS;
OUTPUT SUM= OUT=PRECOMP;
RUN;
DATA COMP(RENAME=(S_MEAN=SCORE S_SE=SEMEAN));
SET PRECOMP;
IF _FREQ_ = 3 THEN DO;
   S_MEAN=SCORE/3;
  S_SE=SQRT(SESQ)/3;
  N_OBS=round(N_OBS/3);
END;
ELSE DO;
   S_MEAN=.;
  S_SE=.;
END;
BENTYPE="Composite";
BENEFIT="Healthy Behaviors";
DROP _TYPE_ _FREQ_ SCORE SESQ;
RUN;
PROC SORT DATA=SMOKE;
BY MAJGRP BENTYPE;
RIIN;
DATA BENCH;
SET SMOKE;
BY MAJGRP BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
   SCORE=&CNSLGOAL;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
  SCORE=&NSMKGOAL;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
   SCORE=&BMIGOAL;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
```

```
SCORE=(SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   BENTYPE="Composite";
   DROP N_WGT;
   OUTPUT;
END;
RUN;
PROC SORT DATA=SMOKE;
BY REGION BENTYPE;
DATA TEMP;
SET SMOKE;
IF REGION=REGCAT;
RUN;
PROC SORT DATA=TEMP;
BY REGION BENTYPE;
RUN;
DATA BENCH2;
SET TEMP;
BY REGION BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
   SCORE=&CNSLGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
   SCORE=&NSMKGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT;
   OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
   SCORE=&BMIGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT;
   OUTPUT;
   SCORE=(SUM(&CNSLGOAL, &NSMKGOAL, &BMIGOAL))/3;
   SEMEAN=.;
   MAJGRP="Benchmark";
   BENTYPE="Composite";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
RUN;
DATA SIG1;
SET SMOKE COMP;
IF BENTYPE='Non-Smoking Rate' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-&NSMKGOAL)/SEMEAN;
   ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
   ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
      IF SCORE > &NSMKGOAL THEN SIG = 1;
      ELSE IF SCORE < &NSMKGOAL THEN SIG = -1;
   END;
END;
IF BENTYPE='Counselled To Quit' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-&CNSLGOAL)/SEMEAN;
   ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
```

```
ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
     IF SCORE > &CNSLGOAL THEN SIG = 1;
      ELSE IF SCORE < &CNSLGOAL THEN SIG = -1;
   END;
END;
IF BENTYPE='Percent Not Obese' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-&BMIGOAL)/SEMEAN;
   ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
   ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
      IF SCORE > &BMIGOAL THEN SIG = 1;
     ELSE IF SCORE < &BMIGOAL THEN SIG = -1;
   END;
END;
IF BENTYPE='Composite' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3))/SEMEAN;
   ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
   ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
      IF SCORE > ((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3) THEN SIG = 1;
      ELSE IF SCORE <((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3) THEN SIG = -1;
   END;
END;
DROP TSTAT PVAL;
RUN;
DATA SMOKE_ALL;
SET SIG1 BENCH BENCH2;
TIMEPD="&CURRENT.";
RUN;
PROC SORT DATA=SMOKE_ALL OUT=OUT.SMOKE;
BY MAJGRP REGION REGCAT BENTYPE;
RUN;
```

G.12.C ReportCards\MPR_Adult2013\LOADMPR.SAS - Convert the MPR Scores Database into the WEB layout - Annual.

```
* Project: DoD Reporting and Analysis 6244-410
  Program: LOADMPR.SAS
  Author: Chris Rankin
  Date:
            4/07/2000
  Modified: 1) 5/08/2001 -- standard errors retained in output data set.
            2) 1/8/2003 by Keith Rathbun: Updated to accomodate the
               2002 survey.
            3) 1/30/2003 by Chris Rankin: Updated to for trends from
               2000, 2002 Annual.
             4) 02/05/2004 by Mike Scott: Updated for 2003 Annual Report.
               Uncommented Flu Shot and changed to Cholesterol.
             5) 02/2005 by Regina Gramss: Updated for 2004 Annual Report.
               Added codes for new "Region" fields. Include smoke data
               from smoking.sas program.
             6) 02/2006 by Regina Gramss: Updated for 2005. Dropped chol measure.
             7) 11/07/2006 by Keith Rathbun: Changed REG loop control from
               16 to 15 and format servregf to servrego.
             8) 11/11/2012 By Mike Rudacille, Updated for handling of
               Joint Service facilities
  Purpose:
           Calculate MPR Preventive Care Composites
   Input: RFINAL.sas7bdat
            CFINAL.sas7bdat
            MFINAL sas7bdat
            DFINAL.sas7bdat
            SFINAL.sas7bdat
            SMOKE.sas7bdat
   Output: loadmpr.sas7bdat
                           ************
OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;
LIBNAME INLIB ".";
                ".";
LIBNAME OUT
LIBNAME LIBRARY "..\..\data\fmtlib"; /*MJS 02/05/04*/
%LET COMPNUM=7; /*** number of questions in both composites ***/
%LET CMPNUM1=4; /*** number of questions in first composite ***/ /*MJS 02/05/04*/
%LET YR=13;
%LET YEAR=2013;
%LET EYR=11;
%INCLUDE "..\..\LOADWEB\LOADCAHQ.INC";
*** Note -- take out access to care questions and composite ***;
DATA BENCHMKS(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SIG);
 FORMAT MAJGRP $30. REGION $30. REGCAT $42. /* MER 11/11/2012 - Updated REGION for Joint
Service facilities */
        BENEFIT $34. BENTYPE $50. TIMEPD $35.;
 SET inlib.CFINAL;
 /**** Benchmarks
                      *****/
 ARRAY BENCHMK{*} GOALVAR1-GOALVAR&CMPNUM1 CP&yr.BMK1;
  DO I = 1 TO 5;
                 /*MJS 02/05/04*/
    SCORE = BENCHMK{I}*100;
           = .;
    REGION = "Benchmark";
REGCAT = "Benchmark";
    BENEFIT = "Preventive Care";
          I = 1 THEN BENTYPE = "Prenatal Care";
    ELSE IF I = 2 THEN BENTYPE = "Mammography";
```

```
ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
     ELSE IF I = 4 THEN BENTYPE = "Hypertension";
     /*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing";*/ /*RSG 01/27/06*/
     ELSE IF I = 5 THEN BENTYPE = "Composite";
     TIMEPD = "&YEAR"; /*RSG 02/2005*/
     OUTPUT;
  END:
 DROP I;
RUN;
DATA BENCHMKS;
  SET BENCHMKS;
 IF MAJGRP = "All Beneficiaries" THEN DO;
    DO REG = 1 TO 18; DROP REG; /* MER 11/11/2012 Changed 15 to 18 for Joint Service facilities
           MAJGRP = "Benchmark";
          REGION = PUT(REG, SERVREGO.);
           REGCAT = PUT(REG, SERVREGO.);
           OUTPUT;
     END:
     DO SERV = 1 TO 5; DROP SERV; /* MER 11/11/2012 Changed 4 to 5 for Joint Service facilities
         MAJGRP = "Benchmark";
        REGION = PUT(SERV, XSERVAFF.);
         REGCAT = PUT(SERV, XSERVAFF.);
        OUTPUT;
     END;
     MAJGRP = "Benchmark";
     REGION = 'CONUS MHS';
     REGCAT = 'CONUS MHS';
     OUTPUT;
     MAJGRP = "Benchmark";
     REGION = 'NORTH';
     REGCAT = 'NORTH';
     OUTPUT;
     MAJGRP = "Benchmark";
     REGION = 'SOUTH';
     REGCAT = 'SOUTH';
     OUTPUT;
     MAJGRP = "Benchmark";
     REGION = 'WEST';
     REGCAT = 'WEST';
     OUTPUT;
     MAJGRP = "Benchmark";
     REGION = 'OVERSEAS';
     REGCAT = 'OVERSEAS';
     OUTPUT;
 END;
RUN;
PROC FREQ DATA=BENCHMKS;
  TABLES MAJGRP/MISSING LIST;
******************
                **;
**** Scores
***************
DATA DFINAL;
  SET INLIB.DFINAL;
  WHERE UPCASE(TRIM(MAJGRP)) IN ("PRIME ENROLLEES", "ENROLLEES WITH MILITARY PCM",
                                 "ACTIVE DUTY", "ALL BENEFICIARIES");
DATA SCORES(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);
 FORMAT MAJGRP $30. REGION $30. REGCAT $42. /* MER 11/11/2012 - Updated REGION for Joint
Service facilities */
         BENEFIT $34. BENTYPE $50. TIMEPD $35.;
  SET INLIB.MFINAL
     INLIB.RFINAL
     DFTNAL.
      INLIB.SFINAL
```

```
INLIB.CFINAL;
IF REGCAT='Out of Catchment Region 01' then REGCAT='Out of Catchment North Region';
IF REGCAT='Out of Catchment Region 02' then REGCAT='Out of Catchment South Region';
IF REGCAT='Out of Catchment Region 03' then REGCAT='Out of Catchment West Region';
IF REGCAT='Out of Catchment Region 04' then REGCAT='Out of Catchment OCONUS Region';
  ARRAY SEMEANS{*} SERR&YR.V1-SERR&YR.V&CMPNUM1. CP&YR.1SE ;
  ARRAY SCORES{*} SCOR&YR.V1-SCOR&YR.V&CMPNUM1. Comp&YR.1;
 ARRAY SIGNIF(*) SIG&YR.V1-SIG&YR.V&CMPNUM1. CP&YR.SIG1;
ARRAY NOBS (*) NOBS&YR.V1-NOBS&YR.V&CMPNUM1. CP&YR.OBS1;
ARRAY NWGT (*) DEN&YR.V1-DEN&YR.V&CMPNUM1 CP&YR.DEN1;
  cp&YR.den1=0;
  DO I = 1 TO 5;
                    /*MJS 02/05/04*/
     SCORE = SCORES{I};
     SEMEAN = SEMEANS{I};
     SIG = SIGNIF{I};

N_OBS = NOBS{I};

N_WGT = NWGT{I};
     if i<5 then cp&YR.den1+nwgt[i];
     BENEFIT = "Preventive Care";
            I = 1 THEN BENTYPE = "Prenatal Care";
     TF
     ELSE IF I = 2 THEN BENTYPE = "Mammography";
     ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
     ELSE IF I = 4 THEN BENTYPE = "Hypertension";
     /*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing";*/ /*RSG 01/27/06*/
     ELSE IF I = 5 THEN DO;
          BENTYPE = "Composite"; /*RSG 02/2005*/
          score=score*100;
     END;;
     TIMEPD = "&YEAR";
     OUTPUT;
  END;
RIIN;
PROC FREQ DATA=SCORES;
   WHERE UPCASE(TRIM(MAJGRP)) IN ("PRIME ENROLLEES", "ENROLLEES WITH MILITARY PCM",
                                   "ACTIVE DUTY", "ALL BENEFICIARIES");
   TABLES MAJGRP*REGCAT;
RUN;
DATA DTREND;
  SET INLIB.DTREND; by majgrp;
  WHERE UPCASE(TRIM(MAJGRP)) IN ("PRIME ENROLLEES", "ENROLLEES WITH MILITARY PCM",
                                   "ACTIVE DUTY", "ALL BENEFICIARIES");
RUN;
proc sort data=inlib.mtrend out=mtrend; by descending majgrp;
data mtrend;
set mtrend;
retain adj1 adj2 0;
if upcase(majgrp)="ALL BENEFICIARIES" then do;
adj1=cp&YR.bmk1; adj2=cp&EYR.bmk1; end;
proc print;
proc sort data=mtrend; by majgrp;
data mtrend(drop=adj1 adj2);
set mtrend;
retain tadj1 tadj2 0;
if _n_=1 then do;
tadil=adil;
tadj2=adj2;
end;
* /
DATA TREND1 (KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE semean TIMEPD SCORE SIG N_OBS N_WGT);
  FORMAT MAJGRP $30. REGION $30. REGCAT $42. /* MER 11/11/2012 - Updated REGION for Joint
Service facilities */
          BENEFIT $34. BENTYPE $50. TIMEPD $35.;
   SET inlib.CTREND
       DTREND
       INLIB.RTREND
       INLIB.STREND
```

```
INLIB.MTREND; by majgrp;
   if _n_=1 then do;
      adil=tadil;
      adj2=tadj2;
   end;
   retain adj1 adj2;
   score=100*((comp031*adj1/cp03bmk1)-(comp011*adj2/cp01bmk1));*/
/*RSG 02/2005 following code no longer needed - need trend for all
 benefit level, not just composite*/
/* score=cmptrnd1;
   SIG= SIGCPTR1;
   N_OBS=DF_COMP1;
   N_WGT=NWGTC1;
   BENTYPE="Trend";
   BENEFIT="Preventive Care";
   OUTPUT;
IF REGCAT='Out of Catchment Region 01' then REGCAT='Out of Catchment North Region'; IF REGCAT='Out of Catchment Region 02' then REGCAT='Out of Catchment South Region';
IF REGCAT='Out of Catchment Region 03' then REGCAT='Out of Catchment West Region';
IF REGCAT='Out of Catchment Region 04' then REGCAT='Out of Catchment OCONUS Region';
  ARRAY SCORES{*} TRENDV1-TRENDV&CMPNUM1. CMPTRND1;
  ARRAY SIGNIF{*} SIGTRND1-SIGTRND&CMPNUM1. SIGCPTR1;
  ARRAY NOBS {** DFSCOR1-DFSCOR&CMPNUM1. DF_COMP1; ARRAY NWGT {*} NWGT1-NWGT&CMPNUM1. NWGTC1;
  DO I = 1 TO 5; /*MJS 02/05/04*/
     SCORE = SCORES{I};
     SEMEAN=.;
     SIG = SIGNIF{I};
     N_OBS = NOBS{I};
     N_WGT
            = NWGT(I);
     BENEFIT = "Preventive Care";
           I = 1 THEN BENTYPE = "Prenatal Care";
     ELSE IF I = 2 THEN BENTYPE = "Mammography";
     ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
     ELSE IF I = 4 THEN BENTYPE = "Hypertension";
     /*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing":*/ /*RSG 01/27/06*/
     ELSE IF I = 5 THEN DO;
          BENTYPE = "Composite"; /*RSG 02/2005*/
           score=score*100;
     END;;
     TIMEPD = "Trend";
     OUTPUT;
  END;
DATA TREND2(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE SCORE SIG TIMEPD);
  FORMAT MAJGRP $30. REGION $30. REGCAT $42. /* MER 11/11/2012 - Updated REGION for Joint
Service facilities */
         BENEFIT $34. BENTYPE $50. TIMEPD $35.;
  SET INLIB.CTREND;
/*RSG 02/2005 hard code in benchmark trends for each measure -
     comment out code for just composite trend benchmark*/
/* SCORE= TRNDBMK1;
 SIG=.;
  SEMEAN=.;
  REGION="Benchmark";
  REGCAT="Benchmark";
  BENTYPE="Trend";
  BENEFIT="Preventive Care";
  OUTPUT;
  DO I = 1 TO 5;
                    /*MJS 02/05/04*/
     SCORE = 0;
     SIG
             = .;
     REGION = "Benchmark";
     REGCAT = "Benchmark";
```

```
BENEFIT = "Preventive Care";
     IF I = 1 THEN BENTYPE = "Prenatal Care";
     ELSE IF I = 2 THEN BENTYPE = "Mammography";
     ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
     ELSE IF I = 4 THEN BENTYPE = "Hypertension";
    /*ELSE IF I = 5 THEN BENTYPE = "Cholesterol Testing";*/ /*RSG 01/27/06*/
ELSE IF I = 5 THEN BENTYPE = "Composite";
     TIMEPD = "Trend"; /*RSG 02/2005*/
    OUTPUT;
  END;
 DROP I;
RUN;
DATA OUT.LOADMPR(KEEP=MAJGRP REGION REGCAT BENEFIT semean BENTYPE SCORE SIG
                     N_OBS N_WGT TIMEPD);
 SET BENCHMKS TREND1 TREND2 SCORES INLIB.SMOKE;
RUN;
PROC FREQ DATA=OUT.LOADMPR;
  WHERE TIMEPD='Trend';
  TABLES BENTYPE*REGION/MISSING LIST;
RUN;
```

G.13 ReportCards\MPR_Adult2013\TRENDMPR.SAS - Calculate Trend and Perform Significance tests on MPR Scores - Annual.

```
Project:
           DoD Reporting and Analysis 6244-410
  Program: TRENDMPR.SAS
  Author: Chris Rankin
  Date:
           6/19/2000
  Modified: 1) 02/21/2001
            trend calculation changed
            2) 01/29/2003 By Keith Rathbun, Chris Rankin: Updated to
              calculate trends based on 2000 to 2002.
            3) 02/10/2004 By Mike Scott: Updated for 2003 Annual Report.
            4) 02/2005 By Regina Gramss: Updated for 2004 Annual Report.
              added codes to use XSERVREG for region.
            5) 02/2006 By Regina Gramss: Updated for 2005. Remove
              cholesterol as a measure.
           Calculate trends from 2011 to 2013.
  Purpose:
  Outputs: RTREND.sas7bdat
           MTREND.sas7bdat
            CTREND.sas7bdat
            STREND.sas7bdat
           DTREND.sas7bdat
  Inputs:
           RFINAL.sas7bdat
            CFINAL.sas7bdat
           MFINAL.sas7bdat
           SFINAL.sas7bdat
           DFINAL.sas7bdat
          1) Next program is loadmpr.sas.
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2;
%LET YR = 13;
LET EYR = 11;
LIBNAME IN&YR ".";
LIBNAME IN&EYR. "..\..\20&EYR.\ReportCards\MPR_Adult20&EYR.";
LIBNAME OUT ".";
LIBNAME LIBRARY "..\..\data\fmtlib";
%LET COMPNUM=7; /** number of variables - 02/2006 RSG - changed from 8 to 7 because
cholesterol dropped **/
**** Note: groups changed 6/16/2000 to correspond with ;
**** definition of CAHPS groups
*********************
* Beneficiary group note
   Eight groups
                        Definitions
* 6. Active duty dependents BFGROUPP=2
                   BFGROUPP IN (3,4)
* 7. Retirees
* 8. All beneficiaries
                         ALL
/*** macro to merge final datasets together and calculate trends ***/
%MACRO TRENDS(INDATA, OUTDATA);
 PROC SORT DATA=IN&EYR..&INDATA;
```

```
BY MAJGRP REGION REGCAT;
 RUN;
  PROC SORT DATA=IN&YR..&INDATA;
     BY MAJGRP REGION REGCAT;
 DATA OUT. & OUTDATA;
     MERGE IN&YR..&INDATA(IN=IN_&YR.) IN&EYR..&INDATA(IN=IN_&EYR.);
     BY MAJGRP REGION REGCAT;
     IF IN &YR. & IN &EYR.;
     /*** calculate trends in the composite benchmarks ***/
     ARRAY BMK&YR. [*] CP&YR.BMK1 CP&YR.BMK2;
             BMK&EYR. {*} CP&EYR.BMK1 CP&EYR.BMK2;
     ARRAY BMKTRND{*} TRNDBMK1 TRNDBMK2;
     DO J=1 TO 2;
        IF BMK\&EYR.\{J\} > 0 THEN BMKTRND\{J\}=100*(BMK\&YR.\{J\}-BMK\&EYR.\{J\});
        ELSE BMKTRND{J}=.;
     END:
     /*** note-- don't use adjusted scores ***/
     ARRAY SCORE&YR. {*} PROP&YR.V1-PROP&YR.V&COMPNUM COMP&YR.1 COMP&YR.2;
     ARRAY SCORE&EYR. (*) PROP&EYR.V1-PROP&EYR.V&COMPNUM COMP&EYR.1 COMP&EYR.2;
     ARRAY SERR&YR.(*) SERR&YR.V1-SERR&YR.V&COMPNUM CP&YR.1SE CP&YR.2SE;
ARRAY SERR&EYR.(*) SERR&EYR.V1-SERR&EYR.V&COMPNUM CP&EYR.1SE CP&EYR.2SE;
            TREND{*} TRENDV1-TRENDV&COMPNUM CMPTRND1 CMPTRND2;
            TSTAT(*) T_TRNDV1-T_TRNDV&COMPNUM T_CTRND1 T_CTRND2;
     ARRAY
     ARRAY PVALUE {*} P_TRNDV1-P_TRNDV&COMPNUM P_CTRND1 P_CTRND2;
            SIG(*) SIGTRND1-SIGTRND&COMPNUM SIGCPTR1 SIGCPTR2;
     ARRAY DEGFR&YR. {*} DF&YR.SCR1-DF&YR.SCR&COMPNUM DF&YR._CP1 DF&YR._CP2;
     ARRAY DEGFR&EYR. {*} DF&EYR.SCR1-DF&EYR.SCR&COMPNUM DF&EYR._CP1 DF&EYR._CP2;
             DEGF{*} DFSCOR1-DFSCOR&COMPNUM DF_COMP1 DF_COMP2;
     ARRAY
             DENOM(*) DENOMT1-DENOMT&COMPNUM DENOMTC1 DENOMTC2;
     ARRAY
             DEN&EYR.{*} DEN&EYR.V1-DEN&EYR.V&COMPNUM CP&EYR.DEN1 CP&EYR.DEN2;
     ARRAY
             DEN&YR. (*) DEN&YR.V1-DEN&YR.V&COMPNUM CP&YR.DEN1 CP&YR.DEN2;
             NWGT(*) NWGT1-NWGT&COMPNUM NWGTC1 NWGTC2;
     ARRAY
     /*** setup t statistics, degreees of freedom
     DO I=1 TO 9;
        IF SCORE&EYR. {I} GE 0 AND SCORE&YR. {I} GE 0 THEN DO;
           IF SCORE&EYR.{I} > 0 THEN TREND{I}=100*(SCORE&YR.{I}-SCORE&EYR.{I});
           ELSE TREND{I}=.;
           DENOM{I} = SERR&EYR.{I}**2+SERR&YR.{I}**2;
           IF DENOM{I} > 0 THEN
              TSTAT{I}=(SCORE&YR.{I}-SCORE&EYR.{I})/SQRT(DENOM{I});
           ELSE TSTAT{I}=.;
           DEGF{I}=MIN(DEGFR&YR.{I},DEGFR&EYR.{I});
           NWGT{I}=MIN(DEN&YR.{I},DEN&EYR.{I});
           IF DEGF{I}=0 THEN DEGF{I}=1;
           IF DEGF{I}IN (0, .) THEN
           PUT "MAJGRP=" MAJGRP "REGCAT=" REGCAT "REGION=" REGION
           "DEGFR&EYR.=" DEGFR&EYR.{I} "DEGFR&YR.=" DEGFR&YR.{I};
           PVALUE{I}=(1-PROBT(ABS(TSTAT{I}),DEGF{I}))*2;
           IF TREND{I}=. THEN SIG{I}=.;
           ELSE IF TREND{I} NE . THEN DO;
              IF PVALUE{I} GE .05 THEN SIG{I}=0;
IF PVALUE{I} < .05 THEN DO;</pre>
                  IF TSTAT{I} > 0 THEN SIG{I}=1;
                  IF TSTAT\{I\} < 0 \& TSTAT\{I\} ne . THEN SIG\{I\}=-1;
              END;
           END;
        END;
     END;
     DROP I;
  RUN;
%MEND TRENDS;
%TRENDS(MFINAL, MTREND);
%TRENDS(RFINAL, RTREND);
```

```
%TRENDS(CFINAL, CTREND);
%TRENDS(SFINAL, STREND);
%TRENDS(DFINAL, DTREND);
```

G.14.A LOADWEB\FAKE.SAS - Generate the WEB layout/template file - Annual.

```
/**********************
/* PROJECT: 6244-410 - 2006 Annual Beneficiary Reports
/* PROGRAM: FAKE.SAS
/* PURPOSE: Generate Fake Data for Report Cards
          Mark A. Brinkley
/* MODIFIED: 1) July 2000 By Eric Schone to utilize CACRPT and CATREP */
/*
              include files.
/*
            2) January 2002 By Keith Rathbun: Updated to support the */
              2000 Annual HCSDB format.
/*
            3) January 2003 By Keith Rathbun: Updated to support the */
               2002 Annual HCSDB format. Delete flu shot, increment */
               previous years by 1, added 2002.
            4) February 2004 By Mike Scott: Updated for 2003 Annual
              Report. Uncommented Flu Shot and changed it to
               Cholesterol.
            5) February 2005 By Regina Gramss: Updated for 2004
               annual report. Include smoking scores and use
               XSERVREG for region fields.
            6) November 7, 2006 by Keith Rathbun: Updated for 2006.
              Added in the quarterly overseas updates.
            7) November 13, 2007 by Keith Rathbun: Updated parameters*/
               for 2007.
            8) November 5, 2008 by Mike Rudacille: Update parameters
              for 2008.
            9) September 10, 2010 by Mike Rudacille: Update
              parameters for 2010.
           10) August 1, 2012 by Amanda Kudis: Update for 2012.
           11) Novermber 12, 2012 By Mike Rudacille - Updated for
              handling of Joint Service facilities
LIBNAME OUT '.';
LIBNAME IN '..\ReportCards\CAHPS_Adult2013\Data'; /*** Changed to group8 location for revised
cacsmpl KRR 02-05-2004 ***/
LIBNAME LIBRARY '..\..\DATA\FMTLIB';
OPTIONS COMPRESS=YES NOFMTERR;
%include "loadcahq.inc";
/*RSG 02/2005 added to make fake.sd2 with macros*/
%LET NUMQTR = 4; /*RSG 02/2005 - Numbering based off quarterly program*/
%LET PERIOD1 = 2011;
%LET PERIOD2 = 2012;
%LET PERIOD3 = 2013;
%LET PERIOD4 = Trend;
DATA TEMP;
  SET IN.GROUP8(KEEP=XSERVind XSERVAFF XTNEXREG USA CACSMPL); /*KRR 02/05/04*/
* CACSMPL FORMAT DEFINITIONS FOR REPORT CARD USE FACILITY NAME
* RSG - 02/2005 - USE CACR FORMAT FROM LIBRARY
proc freq data=temp;
  table xservind*cacsmpl/ noprint out=temp2;
run;
data temp3;
  length cafmt $42;
  set temp2 end=last; by xservind;
  caf=0;
  where cacsmpl ne 9999;
  if first.xservind then do;
     cafmt=put(xservind,servrego.);
     output;
```

```
end;
cafmt=put(cacsmpl,cacr.);
caf=1;
if count>1 & cafmt ne 'INV' then output;
if last then do;
   xservind=0;
   caf=0;
   cafmt='Benchmark';
   output;
   caf=1;
   xservind=19;
   cafmt = 'ARMY';
   output;
   xservind=20;
   cafmt = 'AIR FORCE';
   output;
   xservind=21;
   cafmt = 'NAVY';
   output;
   xservind=22;
   cafmt = 'OTHER';
   output;
   xservind=23;
   cafmt = 'JOINT SERVICE';
   output;
   xservind=24;
   cafmt = 'NORTH';
   output;
   xservind=25;
   cafmt = 'SOUTH';
   output;
   xservind=26;
   cafmt = 'WEST';
   output;
   xservind=27;
   cafmt = 'OVERSEAS';
   output;
   xservind=28;
   cafmt = 'Europe Army';
   output;
   xservind=29;
   cafmt = 'Europe Air Force';
   output;
   xservind=30;
   cafmt = 'Europe Navy';
   output;
   xservind=31;
   cafmt = 'Europe Other';
   output;
   xservind=32;
   cafmt = 'Europe Joint Service';
   output;
   xservind=33;
   cafmt = 'Pacific Army';
   output;
```

```
xservind=34;
      cafmt = 'Pacific Air Force';
      output;
      xservind=35;
      cafmt = 'Pacific Navy';
      output;
      xservind=36;
      cafmt = 'Pacific Other';
      output;
      xservind=37;
      cafmt = 'Pacific Joint Service';
      output;
      xservind=38;
      cafmt = 'Latin America Army';
      output;
      xservind=39;
      cafmt = 'Latin America Air Force';
      output;
      xservind=40;
      cafmt = 'Latin America Navy';
      output;
      xservind=41;
      cafmt = 'Latin America Other';
      output;
      xservind=42;
      cafmt = 'Latin America Joint Service';
      output;
      xservind=43;
      cafmt = 'USA MHS';
      output;
   end;
run;
proc sort; by xservind caf cafmt; run;
data temp4;
  set temp3 end=last;
   start=_n_; label=cafmt; type='N'; fmtname='ROWMAT';
   if last then call symput('x',_n_);
run;
proc format cntlin=temp4;
proc print data=temp4;
RUN;
%MACRO FAKE;
DATA FAKE;
 KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K; ***MJS 06/18/03 Added TIMEPD;
 LENGTH MAJGRP $ 30
REGION $ 30
                       /*RSG 01/2005 lengthen format to fit service affiliation*/
         REGCAT $ 42
                       /*MER 11/08/2012 length format for REGION for Joint Service facilities
         BENTYPE $ 50
         TIMEPD $ 5;
                       ***MJS 06/18/03 Added TIMEPD;
                           ** 8 Major groups **;
 DO I=1 TO 8;
     MAJGRP=PUT(I,MAJGRPF.);
```

```
DO J=1 TO &x;
                        ** Region/catchment **;
    REGCAT=PUT(J,ROWMAT.);
    RETAIN REGION;
     **RSG 01/2005 Change code to fit XSERVREG values**;
     IF REGCAT IN ('ARMY', 'NAVY', 'AIR FORCE', 'OTHER', 'JOINT SERVICE',
                   'NORTH', 'SOUTH', 'WEST', 'OVERSEAS', 'USA MHS',
                   'Overseas Europe', 'Overseas Pacific', 'Overseas Latin America',
                   'North Army', 'North Navy', 'North Air Force', 'North Other', 'North Joint
Service',
                   'South Army', 'South Navy', 'South Air Force', 'South Other', 'South Joint
Service'.
                   'West Army','West Navy','West Air Force','West Other','West Joint Service',
                   'Europe Army', 'Europe Navy', 'Europe Air Force', 'Europe Other', 'Europe Joint
Service',
                   'Pacific Army', 'Pacific Navy', 'Pacific Air Force', 'Pacific Other', 'Pacific
Joint Service',
                   'Latin America Army', 'Latin America Navy', 'Latin America Air Force',
                   'Latin America Other', 'Latin America Joint Service')
        THEN REGION=REGCAT;
                         ** 11 Benefits **; /*** 12-13 MAB ***/
       DO K=1 TO 11;
         BENEFIT=PUT(K,BEN.);
         IF K=1 THEN DO;
                                            ***MJS 06/18/03 Added L loop and BENTYPE PUT;
             DO L=1 TO 3;
                 BENTYPE=PUT(L,GETNCARE.); ***that replaced BENTYPE hard assignment;
                 %DO Q = 1 %TO &NUMQTR; ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END;
         END;
         ELSE IF K=2 THEN DO;
             DO L=1 TO 3;
                                            ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                  BENTYPE=PUT(L,GETCAREQ.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END;
         END;
         ELSE IF K=3 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
             DO L=1 TO 5;
                 BENTYPE=PUT(L, HOWWELL.); ***that replaced BENTYPE hard assignment;
                 %DO 0 = 1 %TO &NUMOTR; ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END;
          END;
         ELSE IF K=4 THEN DO;
             DO L=1 TO 3;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                 BENTYPE=PUT(L,CUSTSERV.); ***that replaced BENTYPE hard assignment;
                                         ***RSG 02/2005 Changed start point to 2 for annual -
                  %DO Q = 1 %TO &NUMQTR;
only go back 2 years;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END;
          END:
          ELSE IF K=5 THEN DO;
             DO L=1 TO 3;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                 BENTYPE=PUT(L,CLMSPROC.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END;
```

END;

```
ELSE IF K=6 THEN DO;
             %DO Q = 1 %TO &NUMQTR; ***RSG 02/2005 Changed start point to 2 for annual - only
go back 2 years;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         END;
         ELSE IF K=7 THEN DO;
             %DO Q = 1 %TO &NUMQTR; ***RSG 02/2005 Changed start point to 2 for annual - only
go back 2 years;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
             %END:
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
this line;
         END;
         ELSE IF K=8 THEN DO;
             %DO Q = 1 %TO &NUMQTR;
                                     ***RSG 02/2005 Changed start point to 2 for annual - only
go back 2 years;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         END;
         ELSE IF K=9 THEN DO;
            %DO Q = 1 %TO &NUMQTR;
                                     ***RSG 02/2005 Changed start point to 2 for annual - only
go back 2 years;
                 BENTYPE = "Composite";
                                          ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         ELSE IF K=10 THEN DO;
             DO L=1 TO 5;
                                            ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                 BENTYPE=PUT(L,PREVCARE.); ***that replaced BENTYPE hard assignment;
                 %DO Q = 1 %TO &NUMQTR; ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
                    TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END:
     END;
         ELSE IF K=11 THEN DO;
                                          ***RSG 02/2005 Added for smoking scores.;
             DO M=1 TO 4;
                 BENTYPE=PUT(M,SMOKEF.);
                 %DO Q = 1 %TO &NUMQTR; ***RSG 02/2005 Changed start point to 2 for annual -
only go back 2 years;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT;
                 %END;
             END;
         END;
       END;
    END;
 END;
RIIN;
%MEND FAKE;
%FAKE;
/*** 12-13 MAB ***/
/*** Need to create single benchmarks for ALL major groups ***/
DATA EXTRA;
 SET FAKE;
 IF MAJGRP="Prime Enrollees" AND REGION=REGCAT AND REGION^="Benchmark";
 MAJGRP="Benchmark";
/*** Combine extra data with fake ***/
DATA FAKE;
 SET EXTRA FAKE;
 IF REGCAT="Benchmark" THEN REGION=REGCAT;
RUN;
```

```
/*** Need to clean up data ***/
DATA FAKE2;
 SET FAKE;
  /*** Need to set oddball records to missing ***/
  if region=''|compress(regcat)='.' then delete;
  /*** Don't populate catchment areas for 4 major groups ***/
  IF I IN(3,4,6,7) AND REGION^=REGCAT THEN DELETE;
 SIG = .;
 SCORE = .;
 DROP T K;
RUN;
/*RSG 02/2005 ORDER FILE*/
DATA ORDER1;
 SET FAKE2;
 IF MAJGRP = "Benchmark" THEN DELETE;
 IF MAJGRP = "Prime Enrollees" THEN LINEUP=1;
  IF MAJGRP = "Enrollees with Military PCM" THEN LINEUP=2;
 IF MAJGRP = "Enrollees with Civilian PCM" THEN LINEUP=3;
  IF MAJGRP = "Standard/Extra Users" THEN LINEUP=4;
  IF MAJGRP = "Active Duty" THEN LINEUP=5;
  IF MAJGRP = "Active Duty Dependents" THEN LINEUP=6;
  IF MAJGRP = "Retirees and Dependents" THEN LINEUP=7;
  IF MAJGRP = "All Users" THEN LINEUP=8;
  IF REGION = "Benchmark" THEN LINEUP1=1;
  ELSE IF UPCASE(REGION) = 'USA MHS' THEN LINEUP1=2;
 ELSE IF UPCASE(REGION) = 'ARMY' THEN LINEUP1=3;
 ELSE IF UPCASE(REGION) = 'NAVY' THEN LINEUP1=4;
 ELSE IF UPCASE(REGION) = 'AIR FORCE' THEN LINEUP1=5;
  ELSE IF UPCASE(REGION) = 'OTHER' THEN LINEUP1=6;
 ELSE IF UPCASE(REGION) = 'JOINT SERVICE' THEN LINEUP1=7;
  ELSE IF UPCASE(REGION) = 'NORTH' THEN LINEUP1=8;
 ELSE IF UPCASE(REGION) = 'NORTH ARMY' THEN LINEUP1=9;
  ELSE IF UPCASE(REGION) = 'NORTH NAVY' THEN LINEUP1=10;
  ELSE IF UPCASE(REGION) = 'NORTH AIR FORCE' THEN LINEUP1=11;
  ELSE IF UPCASE(REGION) = 'NORTH OTHER' THEN LINEUP1=12;
 ELSE IF UPCASE(REGION) = 'NORTH JOINT SERVICE' THEN LINEUP1=13;
 ELSE IF UPCASE(REGION) = 'SOUTH' THEN LINEUP1=14;
 ELSE IF UPCASE(REGION) = 'SOUTH ARMY' THEN LINEUP1=15;
 ELSE IF UPCASE(REGION) = 'SOUTH NAVY' THEN LINEUP1=16;
  ELSE IF UPCASE(REGION) = 'SOUTH AIR FORCE' THEN LINEUP1=17;
  ELSE IF UPCASE(REGION) = 'SOUTH OTHER' THEN LINEUP1=18;
 ELSE IF UPCASE(REGION) = 'SOUTH JOINT SERVICE' THEN LINEUP1=19;
  ELSE IF UPCASE(REGION) = 'WEST' THEN LINEUP1=20;
 ELSE IF UPCASE(REGION) = 'WEST ARMY' THEN LINEUP1=21;
 ELSE IF UPCASE(REGION) = 'WEST NAVY' THEN LINEUP1=22;
  ELSE IF UPCASE(REGION) = 'WEST AIR FORCE' THEN LINEUP1=23;
  ELSE IF UPCASE(REGION) = 'WEST OTHER' THEN LINEUP1=24;
 ELSE IF UPCASE(REGION) = 'WEST JOINT SERVICE' THEN LINEUP1=25;
 ELSE IF UPCASE(REGION) = 'OVERSEAS' THEN LINEUP1=26;
 ELSE IF UPCASE(REGION) = 'OVERSEAS EUROPE' THEN LINEUP1=27;
  ELSE IF UPCASE(REGION) = 'EUROPE ARMY' THEN LINEUP1=28;
  ELSE IF UPCASE(REGION) = 'EUROPE NAVY' THEN LINEUP1=29;
  ELSE IF UPCASE(REGION) = 'EUROPE AIR FORCE' THEN LINEUP1=30;
  ELSE IF UPCASE(REGION) = 'EUROPE OTHER' THEN LINEUP1=31;
  ELSE IF UPCASE(REGION) = 'EUROPE JOINT SERVICE' THEN LINEUP1=32;
 ELSE IF UPCASE(REGION) = 'OVERSEAS PACIFIC' THEN LINEUP1=33;
 ELSE IF UPCASE(REGION) = 'PACIFIC ARMY' THEN LINEUP1=34;
  ELSE IF UPCASE(REGION) = 'PACIFIC NAVY' THEN LINEUP1=35;
```

```
ELSE IF UPCASE(REGION) = 'PACIFIC AIR FORCE' THEN LINEUP1=36;
  ELSE IF UPCASE(REGION) = 'PACIFIC OTHER' THEN LINEUP1=37;
  ELSE IF UPCASE(REGION) = 'PACIFIC JOINT SERVICE' THEN LINEUP1=38;
  ELSE IF UPCASE(REGION) = 'OVERSEAS LATIN AMERICA' THEN LINEUP1=39;
 ELSE IF UPCASE(REGION) = 'LATIN AMERICA ARMY' THEN LINEUP1=40;
ELSE IF UPCASE(REGION) = 'LATIN AMERICA NAVY' THEN LINEUP1=41;
  ELSE IF UPCASE(REGION) = 'LATIN AMERICA AIR FORCE' THEN LINEUP1=42;
  ELSE IF UPCASE(REGION) = 'LATIN AMERICA OTHER' THEN LINEUP1=43;
  ELSE IF UPCASE(REGION) = 'LATIN AMERICA JOINT SERVICE' THEN LINEUP1=44;
 ELSE LINEUP1=45;
  IF REGION=REGCAT THEN LINEUP2=1;
  ELSE LINEUP2=2;
RUN;
      ***MJS 07/03/03 Changed BENTYPE to TIMEPD;
PROC SORT DATA=ORDER1 OUT=OUT.FAKE (DROP=LINEUP LINEUP1 LINEUP2);
BY LINEUP LINEUP1 LINEUP2 REGCAT;
RUN;
PROC FREQ;
 TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT;
```

G.14.B LOADWEB\MERGFINL.SAS - Merge the final CAHPS and MPR Scores Databases into the WEB layout - Annual.

```
******************
* PROGRAM: MERGFINL.SAS
* TASK:
           2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Merge the final CAHPS and MPR Scores Databases
           into the WEB layout preserving the order of the FAKE.SD2.
* WRITTEN: 06/07/2000 BY KEITH RATHBUN
* MODIFIED: 1) 01/09/2002 BY KEITH RATHBUN: Updated to support the 2000
              annual HCSDB.
           2) 01/07/2002 BY KEITH RATHBUN: Updated to support the 2002
              annual HCSDB.
           3) 02/08/2004 BY CHRIS RANKIN: Updated to support the 2003
              annual HCSDB.
           4) 11/07/2006 BY KEITH RATHBUN: Updated to support the 2006
              annual HCSDB.
           4) 11/13/2007 BY KEITH RATHBUN: Updated to support the 2007
              annual HCSDB.
           5) 11/5/2008 BY MIKE RUDACILLE: Updated to support the 2008
              annual HCSDB.
           6) 09/10/2010 BY MIKE RUDACILLE: Updated to support the 2010
              annual HCSDB.
           7) 10/07/2011 BY MIKE RUDACILLE: Updated to support the 2011
              annual HCSDB.
           8) 08/01/2012 BY AMANDA KUDIS: Updated to support the 2012
              annual HCSDB.
           8) 08/01/2013 BY AMANDA KUDIS: Updated to support the 2013
              annual HCSDB.
           1) MPR and CAHPS Individual and Composite data sets with adjusted
 INPUTS:
              scores, and benchmark data for DoD HCS.
              - LOADMPR.sas7bdat - MPR Scores Databases
              - LOADCAHP.sas7bdat - CAHPS Scores Databases
              - BENCHA04.sas7bdat - CAHPS Benchmark Databases
              - FAKE.sas7bdat
                                 - WEB Layout in Column order
* OUTPUT:
           1) MERGFINL.sas7bdat - Combined Scores Database in WEB layout
* NOTES:
 1) The following steps need to be run prior to this
    program (2005,2006,2007):
  - STEP1.SAS - Recode questions and generate CAHPS group files
  - STEP2.SAS
                   - Calculate CAHPS individual adjusted scores for groups 1-8
  - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
- PRVCOMP.SAS - Calculate MPR individual and composite scores
  - SMOKING_BMI.SAS - Calculate MPR smoking and BMI scores
  - BENCHA01-04.SAS - Convert Benchmark Scores into WEB layout
  - LOADCAHP.SAS
                  - Convert CAHPS Scores Database into WEB layout
* 2) The output file (MERGFINL.SD2) will be run through the
    MAKEHTML.SAS program to generate the WEB pages.
* Assign data libraries and options
LIBNAME IN01 ".";
LIBNAME IN02 ".";
LIBNAME IN03 "..\2011\LoadWeb";
LIBNAME IN04 "..\2012\LoadWeb";
LIBNAME IN05 "..\ReportCards\MPR_Adult2013";
LIBNAME IN06 "..\2011\ReportCards\MPR_Adult2011";
LIBNAME IN07 "..\2012\ReportCards\MPR_Adult2012";
             "..\Benchmark\data";
LIBNAME IN08
             "..\2011\Benchmark\data";
LIBNAME IN09
LIBNAME IN10 "..\2012\Benchmark\data";
            ".";
LIBNAME OUT
```

```
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
%LET PERIOD11 = 2011;
%LET PERIOD12 = 2012;
%LET PERIOD13 = 2013;
* Construct ORDERing variable from WEB layout
DATA ORDER;
  SET IN01.FAKE;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) | | UPCASE(TRIM(BENTYPE)) | |
        UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
  KEEP KEY ORDER;
RUN;
PROC SORT DATA=ORDER; BY KEY; RUN;
************************
* Merge the Scores Databases
************************
DATA MERGFINL;
  SET IN02.LOADCAHP (IN=INCAHP13)
      IN03.LOADCAHP (IN=INCAHP11)
      IN04.LOADCAHP (IN=INCAHP12)
      IN05.LOADMPR (IN=INMPR13)
      IN06.LOADMPR (IN=INMPR11)
      IN07.LOADMPR (IN=INMPR12)
      IN08.BENCHA04 (IN=INBEN13)
      IN09.BENCHA04 (IN=INBEN11)
      IN10.BENCHA04 (IN=INBEN12);
  SVCAHP13 = INCAHP13;
  SVCAHP11 = INCAHP11;
  SVCAHP12 = INCAHP12;
  SVMPR13 = INMPR13 ;
  SVMPR11 = INMPR11 ;
  SVMPR12 = INMPR12 ;
  SVBEN13 = INBEN13 ;
SVBEN11 = INBEN11 ;
  SVBEN12 = INBEN12 ;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT))
UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD));
  IF SCORE = . THEN DELETE;
  IF TRIM(REGCAT) = "INV" THEN DELETE;
PROC SORT DATA=MERGFINL; BY KEY; RUN;
* Append ORDERing variable to the merged Scores database file
DATA MERGFINL2 out.MISSING;
  MERGE MERGFINL(IN=IN1) ORDER(IN=IN2);
  LENGTH FLAG $30;
  IF IN1 AND IN2 THEN FLAG = "IN SCORES DB AND LAYOUT";
  ELSE IF IN1 THEN FLAG = "IN SCORES DB ONLY";
             IN2 THEN FLAG = "IN LAYOUT ONLY";
  ELSE IF
  LENGTH SOURCE $30;
  IF SVCAHP13 = 1 THEN SOURCE = "CAHPS &PERIOD13.";
  IF SVCAHP12 = 1 THEN SOURCE = "CAHPS &PERIOD12.";
  IF SVCAHP11 = 1 THEN SOURCE = "CAHPS &PERIOD11.";
  IF SVMPR13 = 1 THEN SOURCE = "MPR &PERIOD13. ";
  IF SVMPR12 = 1 THEN SOURCE = "MPR &PERIOD12.
```

```
IF SVMPR11 = 1 THEN SOURCE = "MPR &PERIOD11. ";
  IF SVBEN13 = 1 THEN SOURCE = "BENCHMARK &PERIOD13.";
IF SVBEN12 = 1 THEN SOURCE = "BENCHMARK &PERIOD12.";
  IF SVBEN11 = 1 THEN SOURCE = "BENCHMARK &PERIOD11.";
   IF IN1 AND NOT IN2 THEN OUTPUT out.MISSING; *Missing from layout;
  IF IN1 AND ORDER NE . THEN OUTPUT MERGFINL2;
*******************
* Reorder file according to WEB layout
PROC SORT DATA=MERGFINL2 OUT=OUT.MERGFINL; BY ORDER; RUN;
DATA FAKE;
SET IN01.FAKE;
  ORDER = _N_;
RUN;
DATA LAYONLY;
  MERGE FAKE(IN=IN1) OUT.MERGFINL(IN=IN2 KEEP=ORDER);
  IF IN1 AND NOT IN2;
RUN;
TITLE1 "2013 DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: MERGFINL.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFINL.sas7bdat - Merged Final Scores Database for input to
MAKEHTML.SAS";
TITLE5 "MERGFINL.sas7bdat Data source counts";
PROC FREQ DATA=OUT.MERGFINL;
 TABLES SOURCE FLAG
 SVCAHP13 SVCAHP12 SVCAHP11
 SVMPR13 SVMPR12 SVMPR11
 SVBEN13 SVBEN12 SVBEN11
 SVCAHP13 * SVCAHP12 * SVCAHP11 *
 SVMPR13 * SVMPR12 * SVMPR11
SVBEN13 * SVBEN12 * SVBEN11
/MISSING LIST;
TITLE5 "MERGFINL.sas7bdat Data attribute counts";
PROC FREQ DATA=OUT.MERGFINL;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
     /MISSING LIST;
RUN;
TITLE5 "LAYONLY.sas7bdat Data attribute counts";
PROC FREO DATA=LAYONLY;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
      REGION*REGCAT
     /MISSING LIST;
RUN;
TITLE5 "No matching record found in LAYOUT file (FAKE.sas7bdat)";
PROC PRINT DATA=OUT.MISSING;
VAR MAJGRP REGION REGCAT BENTYPE BENEFIT;
RUN;
```

G.15 LOADWEB\TREND_A.SAS - Calculate Trends for CAHPS scores - Annual.

```
*******************
* PROGRAM: TREND_A.SAS
           2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
 TASK:
 PURPOSE: Add TREND records to Scores database.
* WRITTEN: 07/28/2000 BY KEITH RATHBUN
* MODIFIED: 1) 02/21/2001 BY KEITH RATHBUN -- updated calculation for
             trend score (DSCORE).
           2) 01/07/2002 BY KEITH RATHBUN -- updated for 2000 survey.
             Use 1998/2000 pairs to caclulate trends.
           3) 01/27/2003 BY KEITH RATHBUN -- updated for 2002 survey.
             Use 2000/2002 pairs to caclulate trends.
           4) 02/08/2004 BY CHRIS RANKIN -- updated for 2003 survey.
              Use 2001/2003 pairs to caclulate trends.
           5) 02/2005 BY REGINA GRAMSS -- updated for 2004 survey,
             include smoking cessation trend calculation,
             put patch in for to order properly.
           6) 02/2006 BY REGINA GRAMSS -- update for 2005. Use
             second set of scores using "old" weights to calculate
             trend.
           7) 11/14/2007 BY KEITH RATHBUN -- updated for 2007 survey.
           8) 10/07/2011 BY MIKE RUDACILLE -- updated for 2011 survey.
           9) 08/01/2012 BY AMANDA KUDIS -- updated for 2012 survey.
          10) 08/01/2013 BY AMANDA KUDIS -- updated for 2013 survey.
* INPUTS:
          1) CONUS_Q.sas7bdat - MPR and CAHPS Scores Database in WEB layout
           2) FAKE.sas7bdat - Scores Database WEB Layout
* OUTPUT:
          1) TREND_A.sas7bdat - Combined Scores Database in WEB layout
* NOTES:
* 1) All of the scores DB programs must be run and MERGFINL.SAS prior to
    running this program. All report card records must be merged prior
    to the trend calculations (MERGFINL.SAS, CONUS_Q.SAS, TOTAL_A.SAS).
* 2) The output file (TREND_A.sas7bdat) will be run through the
    MAKEHTML.SAS program to generate the HTML consumer reports.
*****
* Assign data libraries and options
********************
LIBNAME IN ".";
LIBNAME OUT ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER ERRORS=10000;
/*RSG 02/2005 code copied from 2003 TOTAL_Ar.SAS - eliminate all records
 with semean>.05 or missing and delete all records for that region/regcat
 this will reduce the number of missing data*/
/* MER 11/17/08 semean threshold was changed to .07 */
data fakecut(keep=region regcat);
set in.conus q;
where majgrp='Prime Enrollees' & region ne regcat
& benefit='Health Plan' & timepd='2013'; *AMK 08/01/2012 changed timepd to 2012;
if semean>.07 | semean=.;
proc sort; by region regcat;
data fake;
set in.fake;
oorder=_n_;
proc sort data=fake; by region regcat;
data newfake;
merge fakecut(in=fin) fake; by region regcat;
if fin then delete;
proc sort data=newfake out=out.newfake; by oorder;
```

```
run;
*************************
* Extract records to calculate TRENDs. Keep only 2001/2003 pairs for CAHPS
* records. Trends have already been calculated for MPR scores.
DATA TRENDS;
                               * AMK 08/01/2013, changed 2010, 2012;
  SET IN.CONUS_Q (drop=key);
  WHERE TIMEPD IN ('2011','2013'); * to 2011,2013;
  \mbox{\scriptsize \star} Trends already calculated for MPR scores, so remove from file
  * (RSG 02/2005) EXCEPT Healthy Behavior scores whose trend need to be calculated
  ***********************
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) |
       *AMK 08/01/2013, changed to svmpr11/12/13;
  IF (SVMPR11 = 1 \text{ or } SVMPR12 = 1 \text{ or } SVMPR13 = 1)
     AND BENEFIT NE 'Healthy Behaviors' THEN DELETE;
RUN;
DATA TEMP11;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE ;
  IF TIMEPD = "2011";
RIIN:
PROC SORT DATA=TEMP11; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;
DATA TEMP13;
  SET TRENDS;
  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF TIMEPD = "2013";
RIIN;
PROC SORT DATA=TEMP13; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;
DATA PAIR1113(keep=majgrp region regcat benefit bentype);
  MERGE TEMP11(IN=IN11) TEMP13(IN=IN13);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF IN11 AND IN13;
RUN;
PROC SORT DATA=TRENDS;
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
RUN;
DATA TRENDS2;
  MERGE TRENDS(IN=INTREND) PAIR1113(IN=INPAIR);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
  IF INTREND AND INPAIR;
RUN;
PROC SORT DATA=TRENDS;
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
DIIM:
 proc print data=trends(obs=100);
 * Calculate TRENDs keeping only the TREND records
************************
DATA TRENDS bench;
  SET TRENDS(drop=bscore bsemean);
  BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
  IF TIMEPD = '2011' THEN DO;
     SCORE11 = SCORE/100;
     SE11 = SEMEAN;
N11 = N_OBS;
```

N11 W11

END;

= N_WGT;

RETAIN SCORE11 SE11 N11 W11;

```
IF TIMEPD = '2013' THEN DO;
     SCORE13 = SCORE/100;
           = SEMEAN;
     SE13
            = N OBS;
     N13
     W13
            = N_WGT;
  RETAIN SCORE13 SE13 N13 W13;
  LENGTH KEY $200.;
  IF TIMEPD = '2013' THEN DO;
     TIMEPD = "Trend";
     KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
           UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
     SOURCE = "TREND";
     SEMEAN = SQRT(SE11**2+SE13**2);
     N_OBS = MIN(N11,N13);
     N_WGT = MIN(W11,W13);
     SCORE = SCORE13-SCORE11;
     DSCORE = 100*(SCORE13-SCORE11);
     if region='Benchmark' then OUTPUT bench;
     else output trends;
  END;
  DROP ORDER SCORE11 SCORE13 SE11 SE13 N11 N13;
RUN;
PROC SORT DATA=trends;
  BY MAJGRP BENEFIT BENTYPE TIMEPD;
proc sort data=bench out=benchs(keep=majgrp benefit bentype timepd score semean);
by majgrp benefit bentype timepd;
run;
******************
* Perform significance tests for CAHPS scores
**************************
DATA trends;
  MERGE trends(IN=SIN) BENCHs(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  if bsemean=. then bsemean=0;
  TEMP = (SCORE-BSCORE)/SORT(BSEMEAN**2+SEMEAN**2);
  TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1));
  SIG = 0;
  IF N_OBS >= 30 AND TEST < 0.05 THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;
  TF SIN;
RUN;
data trends;
set trends bench;
score=dscore;
PROC SORT DATA=TRENDS; BY KEY; RUN;
*******************
* Construct ORDERing variable from WEB layout
* (RSG 02/2005 add fix to order it properly
*************************
DATA ORDER;
SET IN.newFAKE;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
  KEEP KEY ORDER;
PROC SORT DATA=ORDER; BY KEY; RUN;
DATA MERGTRND;
  MERGE TRENDS(IN=IN1) ORDER(IN=IN2);
  BY KEY;
  IF IN1 and in2;
```

```
RUN;
PROC SORT DATA=IN.CONUS_Q OUT=CONUS_Q;
by key;run;
data conus_q;
     merge conus_q order(in=gin); by key;
     if gin;
proc sort data=CONUS_Q; by order;
PROC SORT DATA=MERGTRND; BY ORDER; RUN;
DATA OUT.TREND_A;
   update MERGTRND CONUS_Q;
   BY ORDER;
   IF BENEFIT = "Primary Care Manager" THEN BENEFIT = "Personal Doctor"; /*MJS 02/13/2003*/
   IF REGCAT = "5th Med Grp-Minot" THEN REGION = "West Air Force";
   IF substr(region,1,5) in ('Latin', 'Europ', 'Pacif') then delete;
   IF REGION IN ("South Joint Service", "West Joint Service", "Europe Joint Service",
                 "Pacific Joint Service", "Latin America Joint Service") THEN DELETE;
RUN;
TITLE1 "2013 DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: TREND_A.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS data records in WEB Layout";
TITLE4 "Program Outputs: TREND_A.sas7bdat - Merged Final Scores Database with TRENDs for input to
SIGNIF_A.SAS";
TITLE5 "FREQs of TREND_A.sas7bdat";
PROC FREQ;
  TABLES SOURCE FLAG MAJGRP REGION BENEFIT BENTYPE
  /MISSING LIST;
RUN;
TITLE5 "FREQs of newFAKE.sas7bdat";
PROC FREQ DATA=IN.newFAKE;
  TABLES MAJGRP REGION BENEFIT BENTYPE
  /MISSING LIST;
RUN;
```

G.16 LOADWEB\MAKEHTMA.SAS - Generate HTML and XLS files for TRICARE Beneficiary Reports - Annual.

```
*=======;
      Programmer: Mark A. Brinkley
              Title: MAKEHTMA.SAS
             Client: 6077-410
                Date: 02-28-2005
           Purpose: This program is designed to create
                               ANNUAL report cards
    Input files: ?????.SD2
   Output files: HTML\
                                 3384*3 F*.HTM Files (Frame version)
                                 3384 P*.HTM Files (Printer friendly - no frames)
                                3384 P*.XLS Files (Excel files)
                               16920 TOTAL files
      IF YOU MODIFY THIS PROGRAM THEN PLEASE INITIAL AND DOCUMENT
          YOUR CHANGES. THOSE FAILING TO DO THIS WILL BE SEVERELY
          BEATEN.
      00:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:000:
* Modifications:
* 11-01-2000 - JSykes added pieces to create Excel Spreadsheets
   07-01-2001 - MAB modified for qtr 2
  10-25-2001 - C.Rankin moved link to printer friendly version
                          from frame, created macro variable to include
                          third row of subbenefit heading
   11-01-2001 - D.Beahm changed splitpercent to splitpixel and adjusted;
                         the pixel size of the top frame to prevent scrolling
                          she also added a <BR> before the printer icon to make
                          sure it appears on it's own line
   12-21-2001 - D.Beahm changed column widths for frame page a so that ;
                          the column headers would line up with the data in frame;
                         page b. Also revised Excel code so benchmarks for the ;
                         majorgrp are shaded dark red instead of blue
   {\tt 04-18-2002} - Quarterly report cards will now show a rolling {\tt 4}
                         quarters of data for the trend. DKB updated the period;
                         BENTYPE references to account for this, this will need;
                          to be done each quarter. Also revised footnote
                         to indicate that this is the 2002 Survey of Health Care;
                         Beneficiaries. This reflects a change from previous
                         years, the survey year now refers to the processing
                          year instead of the year for which data was collected. ;
                         Also changed image reference from QTR to COL, these
                         new names for the qtr images reflects the column they
                         are in instead of the quarter they represent
   06-19-2002 - Mark Brinkley
                               Updated for Q2_2002
                               Changed macro var PERIOD to CURRENTPERIOD
                               Added macro vars PERIOD1-PERIOD3
   07-29-2002 - Daniele Beahm
                               Added links to trend pages. Clicking on the fielding;
                               Period now takes you to the component page for that ;
                               period and clicking on the Trend column header now
                               takes you to the Trend section of the help file
  02-04-2003 - Mike Scott
                               Changed "Primary Care Manager" to "Personal Doctor"
* 02-10-2003 - Mike Scott
                               Inserted LENGTH HREF $ 250 statements before
                               href = "string" statements so that href wouldn't be ;
```

```
set by default
* 02-14-2003 - Mike Scott
                  Added code to avoid scores > 100
 04-30-2003 - Mike Scott
                  Changed Preventive Care columns from 5 to 6 to
                  accommodate Cholesterol Testing.
 05-01-2003 - Mike Scott
                  Updated periods for Q1 2003, and changed "2001 and
                  2002" to "2002 and 2003" and "2002 Health Care
                  Survey" to "2003 Health Care Survey".
 05-04-2003 - Mike Scott
                  Removed Civilian PCM (var1=3 or majgrp=3), and
                  changed 4-8 references to 3-7.
 05-06-2003 - Mike Scott
                  Changed 7-0-0 to 8-0-0.
 05-13-2003 - Mike Scott
                  Changed two widths.
 05-14-2003 - Mike Scott
                  Changed columns from 2-12 to 1-11 which is
                  controlled by var3 - decreased var3's by 1 and
                  decreased K loops by 1.
 07-03-2003 - Mike Scott
                  Incorporated TIMEPD variable into program to run
                  with Q1 2003 TOTAL_Q rerun to include TIMEPD
                  variable.
 07-30-2003 - Mike Scott
                  Added else do section to correct header.
 07-31-2003 - Mike Scott
                  Updated periods for Q2 2003.
 08-01-2003 - Mike Scott
                  Added code so periods would print on var3=7,8,9,10.
 08-07-2003 - Regina Gramss
                  Changed program to create additional trend pages
                  for each sub-benefit: pages are now named with 4
                  numbers (var4 has been added to all file name
                  references) to compensate for additional layer
                  of pages. All file references have been changed
                  to include var4.
 01-28-2004 - Mike Scott
                  Changed back to html being generated in HTML
                  directory below directory where MAKEHTMQ is being
                  run.
 01-29-2004 - Mike Scott
                  Commented out LENGTH HREF $ 250 statements, since
                  HREF was already declared.
 02-11-2004 - Mike Scott
                  Changed all lengths to 100 that were less than 100.
 03-24-2004 - Mike Scott
                  Updated for Q1 2004. Changed hard-coded years in
                  footnotes stating source to macro variables.
 05-07-2004 - Mike Scott - Changed "Wait More than 15 Minutes Past
               Appointment" to "Wait in Doctor's Office" and
               "Problems Getting Referral to Specialist" to "Problems
               Getting to See Specialist". NAed out trends for the
               composites Getting Needed Care, Getting Care Quickly,
               and Customer Service and for the questions Problems
               Getting Personal Doctor/Nurse (GNC), Wait in Doctor's
               Office (GCQ), and Problem with Paperwork (CS).
 02-16-2004 - Mike Scott - Moved initial data read-in outside macro
               loop to speed up program.
* 06-22-2004 - Regina Gramss - Updated for Q2 2004 run.
 08-02-2004 - Regina Gramss - removed lines that replaced trend
               with NA
* 10-07-2004 - Regina Gramss - Adjusted for XTNEXREG
* 02-14-2005 - Mark Brinkley - added 12th benefit SMOKING
 03-28-2005 - Mark Brinkley - made changed to fix excel pages 11-19-2007 - Keith Rathbun - Added 's' to Behavior. Updated
               parameters for 2007 survey.
* 11-05-2008 - Mike Rudacille - Updated parameters for 2008 survey.
* 08-01-2012 - Amanda Kudis - Updated parameters for 2012 survey.
* 11-12-2012 - Mike Rudacille - added handling of 2 new servreg
               categories (JOINT SERVICE, North Joint Service)
```

```
* NOTE: Update only SRCYR1, SRCYR2, PERIOD1/2/3, and CURRENTPERIOD.
*======;
OPTIONS COMPRESS=YES;
%LET SRCYR1 = 2011; *** Previous year; /* MER - 11/21/08 Changed from previous year
                                        to 2 years previous for accuracy of footnote*/
%LET SRCYR2 = 2013; *** Current year;
%LET CURRENTPERIOD = 2013;
                                                    /** Qtr of these reports **/
%LET OTRS=3;
OPTIONS NOXWAIT;
%LET HTMLSP=%NRSTR( );
%LET QUOTE=%STR("");
%LET OUTDIR=HTML;
                               /** Directory to put HTML files **/ /*MJS 01/28/04 Set to
HTML*/
                               /** Directory with images **/
%LET IMGDIR=images;
                               /** HTML code for frames targeting **/
%LET TARGET=target='_parent';
                               /** 1=Make XLS file/0=Don't Added 1-24 MAB **/
%LET OUTXLS=1;
%LET fontface=%STR(Arial, Helvetica, Swiss, Geneva);
%LET hdcolr=%STR('white');
%LET BLUE=%STR('#663300');
                               /** This is really dark red **/
%LET GREEN=%STR('#009933');
%LET RED=%STR('#cc0000');
%LET GRAY=%STR('white');
%LET LOGO=%STR('images\tricare_side_35_new.gif');
%LET HELP_BUT=%STR('images\help75.gif');
%LET HOME_BUT=%STR('images\home75.gif');
%LET BACK_BUT=%STR('images\back75.gif');
%LET NUMBER_HTML_FILES=0;
                               /** Keep count of HTML files created **/
                               /** Macro variable for sub-benfit heading **/
%LET SUB HEAD=0;
                               /** 1=headings, 0=no headings
/**** Macro for putting notes at bottom of table *****/
/**********************
%MACRO BOTTOM_NOTES();
    PUT "";
  %if &var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2 %then %do;
   PUT " <font face='Arial, Helvetica, Swiss, Geneva' size='2'>Source:
Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through &SRCYR2.</font>"; /* MER
11/21/08
  %end;
  %else %do;
    PUT " <font face='Arial, Helvetica, Swiss, Geneva' size='2'>Source:
&SRCYR2 Health Care Survey of DOD Beneficiaries</font>";
  %end;
    PUT "
             <font face='Arial,Helvetica,Swiss,Geneva' size='2' color='#009933'><br>";
    PUT "
             <br/><b>Indicates score significantly exceeds benchmark</b></font><b>&htmlsp.<br/>br>";
    PUT "
            </b><font face='Arial, Helvetica, Swiss, Geneva' size='2' color='#cc0000'><i>Indicates
score significantly falls short of benchmark</i></font><br/>br>";
    " ידוזק
            <font face='Arial,Helvetica,Swiss,Geneva' size='2'>NA Indicates not
applicable</font><br>";
   PUT " <font face='Arial, Helvetica, Swiss, Geneva' size='2'>*** Indicates suppressed due to
small sample size</font><br>";
  %if &var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2 %then %do;
     %if &var2.=0 %then %do;
       PUT " <font face='Arial, Helvetica, Swiss, Geneva' size='2'>* For 2011, Walter Reed and
Ft. Belvoir are included in North Joint Service despite not being classified as such until
2012</font><b
     %end;
     %else %if &var2.=12 %then %do;
               <font face='Arial,Helvetica,Swiss,Geneva' size='2'>* For 2011, Walter Reed and
Ft. Belvoir are included in North Joint Service despite not being classified as such until
2012</font><b
```

```
<font face='Arial,Helvetica,Swiss,Geneva' size='2'># For 2011, Walter Reed Natl
Mil Med Cntr scores include NNMC Bethesda and Walter Reed AMC which were consolidated in
2012</font><br
     %end;
  %end;
    PUT "
            <center><a href='&hrefxls.'><img src='&imgdir.\excel.gif' border=0>Download
Page</a></center>";
   PUT "";
%MEND BOTTOM_NOTES;
/***********************************
/**** Macro for adding in link row to trends data *****/
/*** Macro variable with Javascript to go back ***/
%LET GOBACK=%STR(<script>document.write(&quote.<a href='javascript:history.go(-1)'
target='_parent'>&quote.);
document.write(&quote.<img src='images\\back75.gif' border='0' alt='Go to previous
page'>&quote.);document.write(&quote.</a>&quote.);</script>);
LIBNAME SRC1 '.' ACCESS=READONLY;
*LIBNAME SRC1 V612 'L:\2005\PROGRAMS\LOADWEB';
OPTIONS LS=210;
/***************************
/**** Macro to create html pages
       var1=major group
/****
                                                              ****/
            var2=region
/****
           var3=benefit
var4=trend
                                                              ****/
/***
/**** seppage=0/no separate pages for qtrly trends
/****
                                                             ****/
/***
          1/1st separate page with LINK to trends
/****
                  2/2nd separate page with trends
/***************************
/** RSG 08/07/03 - added var4 to add extra dimension of page numbers for
   sub benefit trend pages**/
DATA PRE SUBSET (RENAME=(TIME=TIMEPD));
                                         /*** MAB testing 3/16/2005 ***/
 SET SRC1.TREND_Apc(DROP=FLAG SOURCE KEY);
  /* 02/2006 RSG - need to reset timepd to longer length to include
    values with asterix*/
 LENGTH TIME $6.;
 TIME=TIMEPD;
 IF BENEFIT="Total" THEN DELETE; /*** MAB testing 2/11/2005 ***/
  /* MER 11/05/09 Temporary fix for 2009 and 2010 */
 /*IF (BENEFIT="Customer Service" AND TIMEPD="Trend") THEN SCORE=.;*/
  /* MER 4/30/11 - Set scores for Counselled To Quit = N/A for 2009 and 2010 for trends pages */
               Also set Trend to N/A
 IF BENEFIT = "Healthy Behaviors" AND BENTYPE = "Counselled To Quit" AND
    TIMEPD IN ("2011", "Trend") THEN SCORE = .A;*/
 IF MAJGRP = "All Beneficiaries" THEN MAJGRP = "All Users";
 IF MAJGRP = "Non-enrolled Beneficiaries" THEN MAJGRP = "Standard/Extra Users";
 IF SCORE>100 then SCORE=100;
 IF (TIMEPD="Trend" and -.5<SCORE<0) THEN SCORE=ABS(SCORE);</pre>
 IF BENTYPE="Wait More than 15 Minutes Past Appointment" THEN
                                                             /*MJS 5/7/04 Changed label*/
   BENTYPE="Wait in Doctor`s Office";
  IF BENTYPE="Problems Getting Referral to Specialist" THEN /*MJS 5/7/04 Changed label*/
   BENTYPE="Problems Getting to See Specialist";
```

```
DROP TIMEPD;
     IF MAJGRP = "Benchmark" THEN LINEUP=1;
     ELSE IF MAJGRP = "Prime Enrollees" THEN LINEUP=2;
     ELSE IF MAJGRP = "Enrollees with Military PCM" THEN LINEUP=3;
        ELSE IF MAJGRP = "Enrollees with Civilian PCM" THEN LINEUP=4;
     ELSE IF MAJGRP = "Standard/Extra Users" THEN LINEUP=5;
        ELSE IF MAJGRP = "Purchased Care Users" THEN LINEUP=6;
     ELSE IF MAJGRP = "Active Duty" THEN LINEUP=7;
     ELSE IF MAJGRP = "Active Duty Dependents" THEN LINEUP=8;
     ELSE IF MAJGRP = "Retirees and Dependents" THEN LINEUP=9;
     ELSE IF MAJGRP = "All Users" THEN LINEUP=10;
     IF REGION = "Benchmark" THEN LINEUP2=1;
     ELSE IF UPCASE(REGION) = 'USA MHS' THEN DO;
       LINEUP2=2;
       REGION='US MHS';
       REGCAT='US MHS';
     ELSE IF UPCASE(REGION) = 'ARMY' THEN LINEUP2=3;
     ELSE IF UPCASE(REGION) = 'NAVY' THEN LINEUP2=4;
     ELSE IF UPCASE(REGION) = 'AIR FORCE' THEN LINEUP2=5;
     ELSE IF UPCASE(REGION) = 'OTHER' THEN LINEUP2=6;
     ELSE IF UPCASE(REGION) = 'JOINT SERVICE' THEN LINEUP2=7;
     ELSE IF UPCASE(REGION) = 'NORTH' THEN LINEUP2=8;
     ELSE IF UPCASE(REGION) = 'NORTH ARMY' THEN LINEUP2=9;
     ELSE IF UPCASE(REGION) = 'NORTH NAVY' THEN LINEUP2=10;
     ELSE IF UPCASE(REGION) = 'NORTH AIR FORCE' THEN LINEUP2=11;
     ELSE IF UPCASE(REGION) = 'NORTH OTHER' THEN LINEUP2=12;
     ELSE IF UPCASE(REGION) = 'NORTH JOINT SERVICE' THEN LINEUP2=13;
     ELSE IF UPCASE(REGION) = 'SOUTH' THEN LINEUP2=14;
     ELSE IF UPCASE(REGION) = 'SOUTH ARMY' THEN LINEUP2=15;
     ELSE IF UPCASE(REGION) = 'SOUTH NAVY' THEN LINEUP2=16;
    ELSE IF UPCASE(REGION) = 'SOUTH AIR FORCE' THEN LINEUP2=17;
     ELSE IF UPCASE(REGION) = 'SOUTH OTHER' THEN LINEUP2=18;
     ELSE IF UPCASE(REGION) = 'WEST' THEN LINEUP2=19;
     ELSE IF UPCASE(REGION) = 'WEST ARMY' THEN LINEUP2=20;
     ELSE IF UPCASE(REGION) = 'WEST NAVY' THEN LINEUP2=21;
     ELSE IF UPCASE(REGION) = 'WEST AIR FORCE' THEN LINEUP2=22;
     ELSE IF UPCASE(REGION) = 'WEST OTHER' THEN LINEUP2=23;
     ELSE IF UPCASE(REGION) = 'OVERSEAS' THEN LINEUP2=24;
     ELSE IF UPCASE(REGION) = 'OVERSEAS EUROPE' THEN LINEUP2=25;
     ELSE IF UPCASE(REGION) = 'OVERSEAS PACIFIC' THEN LINEUP2=26;
     ELSE IF UPCASE(REGION) = 'OVERSEAS LATIN AMERICA' THEN LINEUP2=27;
RUN;
     ***MJS 07/03/03 Changed BENTYPE to TIMEPD;
PROC SORT;
BY LINEUP LINEUP2;
%MACRO MKHTML(var1,var2,var3,seppage,var4);
/*** Determine some macro variables ***/
%if &prefix=f %then %do;
 %let width1=640;
  %let width2=640;
 %let border=0;
%end;
%else %do;
  %let width1=90%;
  %let width2=85%;
 %let border=1;
%end;
%let number_html_files=%EVAL(1+&number_html_files.);
/** Load in data **/
```

```
DATA SUBSET;
 SET PRE SUBSET;
 LENGTH FILEOUT1 $ 100;
                          /*MJS 02/11/04*/
 LENGTH FILEOUT2 $ 100;
 LENGTH FILEOUT3 $ 100;
  /*** VAR1 indicated major group ***/
  %if &var1.=0 %then %let major=%STR();
  %if &var1.=1 %then %let major=%STR(Prime Enrollees);
  %if &var1.=2 %then %let major=%STR(Enrollees with Military PCM);
  %if &var1.=3 %then %let major=%STR(Enrollees with Civilian PCM);
  %if &var1.=4 %then %let major=%STR(Standard/Extra Users);
  %if &var1.=5 %then %let major=%STR(Purchased Care Users);
  %if &var1.=6 %then %let major=%STR(Active Duty);
  %if &var1.=7 %then %let major=%STR(Active Duty Dependents);
  %if &var1.=8 %then %let major=%STR(Retirees and Dependents);
  %if &var1.=9 %then %let major=%STR(All Users);
  %if &var4. = 0 %then %do;
      %LET BEN_TYPE=%STR('Composite');
  %end;
  %else %do;
      %if &var3. = 1 %then %do;
          %if &var4. = 1 %then %do;
              %LET BEN_TYPE = %STR('Getting to See a Specialist');
          %else %if &var4. = 2 %then %do;
             %LET BEN_TYPE = %STR('Getting Treatment');
          %end;
      %end;
      %else %if &var3. = 2 %then %do;
          %if &var4. = 1 %then %do;
              %LET BEN_TYPE = %STR('Wait for Routine Visit');
          %else %if &var4. = 2 %then %do;
              %LET BEN_TYPE = %STR('Wait for Urgent Care');
          %end;
      %end;
      %else %if &var3. = 3 %then %do;
          %if &var4. = 1 %then %do;
              %LET BEN_TYPE = %STR('Listens Carefully');
          %end:
          %else %if &var4. = 2 %then %do;
             %LET BEN_TYPE = %STR('Explains so You Can Understand');
      %else %if &var4. = 3 %then %do;
             %LET BEN_TYPE = %STR('Shows Respect');
          %else %if &var4. = 4 %then %do;
              %LET BEN_TYPE = %STR('Spends Time with You');
          %end;
      %end;
      %else %if &var3. = 4 %then %do;
          %if &var4. = 1 %then %do;
              %LET BEN_TYPE = %STR('Getting Information');
          %end;
          %else %if &var4. = 2 %then %do;
             %LET BEN_TYPE = %STR('Courteous Customer Service');
          %end;
      %else %if &var3. = 5 %then %do;
          %if &var4. = 1 %then %do;
              %LET BEN_TYPE = %STR('Claims Handled in a Reasonable Time');
          %else %if &var4. = 2 %then %do;
              %LET BEN_TYPE = %STR('Claims Handled Correctly');
          %end;
      %end;
      %else %if &var3. = 10 %then %do;
          %if &var4. = 1 %then %do;
              %LET BEN_TYPE = %STR('Mammography');
```

```
%end;
          %else %if &var4. = 2 %then %do;
             %LET BEN_TYPE = %STR('Pap Smear');
          %end;
          %else %if &var4. = 3 %then %do;
              %LET BEN_TYPE = %STR('Hypertension');
          %else %if &var4. = 4 %then %do;
             %LET BEN_TYPE = %STR('Prenatal Care');
          %end;
      %end;
      %else %if &var3. = 11 %then %do; /*** MAB Added 2/11/2005 ***/
          %if &var4. = 1 %then %do;
              %LET BEN_TYPE = %STR('Non-Smoking Rate');
          %else %if &var4. = 2 %then %do;
             %LET BEN_TYPE = %STR('Counselled To Quit');
          %end;
          %else %if &var4. = 3 %then %do;
              %LET BEN_TYPE = %STR('Percent Not Obese');
          %end;
      %end;
  %end;
     IF MAJGRP = "&major.";
                              /*** MAB MODIFIED 3/16/2005 ***/
     %let comma=%STR(,);
     %let grpmsg=%STR(Click below to view this table by other groups);
   /*** Create macro variables to refer to Component or Trend pages ***/
   %if &seppage.=2 %then %do;
     %let q=q;
     %let unq=;
     %let click_alt=Click for Component data;
     %let click_image=component.gif;
   %else %do;
     %let q=;
     %let unq=q;
     %let click_alt=Click for Trend data;
      %let click_image=trend.gif;
   %end;
   FILEOUT1=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q..htm");
                                                                                /** Main html **/
                                                                               /** Header html
  FILEOUT2=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.a.htm");
   FILEOUT3=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.b.htm");
                                                                                /** Data html **/
   %if &outxls.=1 %then %do;
     %let fileout1= NUL;
     %let fileout2= NUL;
     %let fileout3= NUL;
   %end;
    %else %do;
     call symput('fileout1',FILEOUT1);
     call symput('fileout2',FILEOUT2);
     call symput('fileout3',FILEOUT3);
   %end;
  /* 2000/11: begin xls code */
 FILEOUTX=COMPRESS("&outdir.\p&var1.-&var2.-&var3.-&var4.&q..xls");
                                                                             /* create run-
specific xls file */
 CALL SYMPUT('fileoutX',FILEOUTX);
                                                                    /* via global macro vars
  %if &seppage. ne 2 %then %do;
   TEMPLATE=COMPRESS("Templates\Template&var3..xls");
  %end;
  %else %do;
```

```
TEMPLATE=COMPRESS("Templates\Template_trend.xls");
 %end;
 CALL SYMPUT('template',TEMPLATE);
                                                                  /* identify which template
xls file */
 /*----*/
  /* 2000/11: end xls code */
  /*____*/
  /*** VAR3 dictates type of benefit heading ***/
 %if &var3=0 %then %do;
   %let headvar=BENEFIT;
  %end;
  %else %do;
   %if &seppage.=2 or &var3=6 or &var3=7 or &var3=8 or &var3=9 %then %let headvar=TIMEPD;
   %else %let headvar=BENTYPE;
  /*** Link to XLS file ***/
 HREFXLS=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..xls");
 call symput('hrefxls',HREFXLS);
RIIN;
/*** Subset data by region ***/
DATA SUBSET2;
 SET SUBSET;
 IF REGION=REGCAT;
                           /** Just do All Region table **/
     %let sub_regs=%STR(All Regions);
 %end;
  %else %if &var2.=1 %then %do;
    IF UPCASE(REGION) = "US MHS" ;
     %let sub_regs=%STR(US MHS);
  %end;
  %else %if &var2.=2 %then %do;
    IF UPCASE(REGION) = "ARMY";
     %let sub_regs=%STR(ARMY);
  %end;
  %else %if &var2.=3 %then %do;
    IF UPCASE(REGION) = "NAVY" ;
     %let sub_regs=%STR(NAVY);
  %end;
  %else %if &var2.=4 %then %do;
    IF UPCASE(REGION) = "AIR FORCE";
     %let sub_regs=%STR(AIR FORCE);
  %else %if &var2.=5 %then %do;
    IF UPCASE(REGION) = "OTHER";
     %let sub_regs=%STR(OTHER);
  %end;
  %else %if &var2.=6 %then %do;
     IF UPCASE(REGION) = "JOINT SERVICE";
     %let sub_regs=%STR(JOINT SERVICE);
  %end;
  %else %if &var2.=7 %then %do;
    IF UPCASE(REGION) = "NORTH";
     %let sub_regs=%STR(NORTH);
  %else %if &var2.=8 %then %do;
    IF UPCASE(REGION) = "NORTH ARMY" or REGION = "Benchmark" or REGION = "US MHS"
       OR REGION="NORTH" OR REGION="ARMY";
     %let sub_regs=%STR(North Army);
  %end;
  %else %if &var2.=9 %then %do;
    IF UPCASE(REGION)="NORTH NAVY" or REGION="Benchmark" or REGION = "US MHS"
       OR REGION="NORTH" OR REGION="NAVY";
     %let sub_regs=%STR(North Navy);
  %end;
  %else %if &var2.=10 %then %do;
```

```
IF UPCASE(REGION)="NORTH AIR FORCE" or REGION="Benchmark" or REGION = "US MHS"
       OR REGION="NORTH" OR REGION="AIR FORCE";
     %let sub_regs=%STR(North Air Force);
 %end;
 %else %if &var2.=11 %then %do;
    IF UPCASE(REGION) = "NORTH OTHER" or REGION = "Benchmark" or REGION = "US MHS"
    OR REGION="NORTH" OR REGION="OTHER";
     %let sub_regs=%STR(North Other);
 %end;
 %else %if &var2.=12 %then %do;
    IF UPCASE(REGION)="NORTH JOINT SERVICE" or REGION="Benchmark" or REGION = "US MHS"
     OR REGION="NORTH" OR REGION="JOINT SERVICE";
     %let sub_regs=%STR(North Joint Service);
 %end;
 %else %if &var2.=13 %then %do;
    IF UPCASE (REGION) = "SOUTH";
     %let sub_regs=%STR(SOUTH);
 %end;
 %else %if &var2.=14 %then %do;
    IF UPCASE(REGION) = "SOUTH ARMY" or REGION = "Benchmark" or REGION = "US MHS"
       OR REGION="SOUTH" OR REGION="ARMY";
     %let sub_regs=%STR(South Army);
 %end;
%else %if &var2.=15 %then %do;
    IF UPCASE(REGION) = "SOUTH NAVY" or REGION = "Benchmark" or REGION = "US MHS"
       OR REGION="SOUTH" OR REGION="NAVY";
     %let sub_regs=%STR(South Navy);
%end;
%else %if &var2.=16 %then %do;
    IF UPCASE(REGION)="SOUTH AIR FORCE" or REGION="Benchmark" or REGION = "US MHS"
       OR REGION="SOUTH" OR REGION="AIR FORCE";
     %let sub_regs=%STR(South Air Force);
%end;
%else %if &var2.=17 %then %do;
    IF UPCASE(REGION)="SOUTH OTHER" or REGION="Benchmark" or REGION = "US MHS"
      OR REGION="SOUTH" OR REGION="OTHER";
     %let sub_regs=%STR(South Other);
%end;
%else %if &var2.=18 %then %do;
    IF UPCASE(REGION) = "WEST";
     %let sub_regs=%STR(OVERSEAS);
%end;
%else %if &var2.=19 %then %do;
    IF UPCASE(REGION) = "WEST ARMY" or REGION="Benchmark" or REGION = "US MHS"
       OR REGION="WEST" OR REGION="ARMY";
     %let sub_regs=%STR(West Army);
%end;
%else %if &var2.=20 %then %do;
    IF UPCASE(REGION) = "WEST NAVY" or REGION="Benchmark" or REGION = "US MHS"
      OR REGION="WEST" OR REGION="NAVY";
     %let sub_regs=%STR(West Navy);
%end;
%else %if &var2.=21 %then %do;
    IF UPCASE(REGION) = "WEST AIR FORCE" or REGION="Benchmark" or REGION = "US MHS"
       OR REGION="WEST" OR REGION="AIR FORCE";
     %let sub_regs=%STR(West Air Force);
%else %if &var2.=22 %then %do;
    IF UPCASE(REGION) = "WEST OTHER" or REGION="Benchmark" or REGION = "US MHS"
       OR REGION="WEST" OR REGION="OTHER";
     %let sub_regs=%STR(West Other);
%else %if &var2.=23 %then %do;
    IF UPCASE(REGION) = "OVERSEAS" ;
     %let sub_regs=%STR(OVERSEAS);
%else %if &var2.=24 %then %do;
     IF UPCASE(REGION) = "OVERSEAS EUROPE" or REGION="Benchmark" or REGION = "US MHS"
       OR REGION="OVERSEAS" OR REGION="EUROPE";
      %let sub regs=%STR(Overseas Europe);
 %else %if &var2.=25 %then %do;
     IF UPCASE(REGION) = "OVERSEAS PACIFIC" or REGION = "Benchmark" or REGION = "US MHS"
```

```
OR REGION="OVERSEAS" OR REGION="PACIFIC";
       %let sub_regs=%STR(Overseas Pacific);
  %end;
  %else %if &var2.=26 %then %do;
      IF UPCASE(REGION) = "OVERSEAS LATIN AMERICA" or REGION="Benchmark" or REGION = "US MHS"
        OR REGION="OVERSEAS" OR REGION="LATIN AMERICA";
       %let sub regs=%STR(Overseas Latin America);
RUN;
/\ast MER 11/22/12 - Temp fix for pages showing 2010/11 scores \ast/
 %if &var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2 %then %do;
     %if &var2.=0 %then %do;
        DATA SUBSET2;
           SET SUBSET2;
           IF REGCAT IN ("JOINT SERVICE", "North Joint Service") THEN REGCAT = TRIM(REGCAT) |
        RUN;
     %end;
     %else %if &var2.=12 %then %do;
        DATA SUBSET2;
           SET SUBSET2;
           IF REGCAT IN ("JOINT SERVICE", "North Joint Service") THEN REGCAT = TRIM(REGCAT) |
           ELSE IF SUBSTR(REGCAT,1,10) = "Ft Belvoir" THEN REGCAT = TRIM(REGCAT) | | "*";
           ELSE IF SUBSTR(REGCAT,1,11) = "Walter Reed" THEN REGCAT = TRIM(REGCAT) | | "*#";
        RUN;
     %end;
  %end;
/*** Subset data by Benefit ***/
DATA SUBSET3;
 SET SUBSET2;
 %if &var3.=0 %then %do;    /** 0=All Benefits **/
    IF BENTYPE="Composite" and TIMEPD="&currentperiod.";
  %end;
  %else %if &var3.=1 %then %do;
     IF BENEFIT="Getting Needed Care";
     /*** # of columns for this benefit table ***/
     %let columns=%EVAL(3+&qtrs.);
  %end;
  %else %if &var3.=2 %then %do;
     IF BENEFIT="Getting Care Quickly";
     %let columns=%EVAL(3+&qtrs.);
  %end;
  %else %if &var3.=3 %then %do;
     IF BENEFIT="How Well Doctors Communicate";
     %let columns=%EVAL(5+&qtrs.);
  %end;
  %else %if &var3.=4 %then %do;
     IF BENEFIT="Customer Service";
     %let columns=%EVAL(3+&qtrs.);
  %else %if &var3.=5 %then %do;
     IF BENEFIT="Claims Processing";
     %let columns=%EVAL(3+&qtrs.);
  %end;
  %else %if &var3.=6 %then %do;
     IF BENEFIT="Health Plan";
     %let columns=%EVAL(2+&gtrs.);
  %end;
  %else %if &var3.=7 %then %do;
     IF BENEFIT="Health Care";
     %let columns=%EVAL(2+&qtrs.);
  %else %if &var3.=8 %then %do;
     IF BENEFIT="Personal Doctor";
     %let columns=%EVAL(2+&qtrs.);
```

```
%else %if &var3.=9 %then %do;
     IF BENEFIT="Specialty Care";
     %let columns=%EVAL(2+&qtrs.);
  %end;
  %else %if &var3.=10 %then %do;
     IF BENEFIT="Preventive Care";
     %let columns=%EVAL(5+&qtrs.);
  %else %if &var3.=11 %then %do;
     IF BENEFIT="Healthy Behaviors";
     %let columns=%EVAL(4+&qtrs.);
  %end;
  /*** Set macro variable ***/
  %if &var3.=0 %then %do;
      %let sub_ben=%STR(&currentperiod. Composite Scores);
      %let columns=12;
  %end;
  %else %do;
   call symput('sub_ben',BENEFIT);
  %end;
  /*** Determine number of columns for sub-benefits ***/
  /*** Equals cols - (x for qtrs - 1 for stub column) ***/
  %let subcols=%EVAL(&columns.-&qtrs.-2);
  /*** Determine number of columns less 1st (stub) column ***/
  %let columns_less1=%EVAL(&columns.-1);
RUN;
DATA SUBSET4;
  SET SUBSET3;
  WIDTH_COL1=120; /** Set width of column 1 **/
  IF BENTYPE="Composite" THEN WIDTH3=90;
  ELSE WIDTH3=90;
  /** Deal with some special cases **/
  IF BENEFIT="Preventive Care" THEN DO;
      IF BENTYPE="Composite" THEN WIDTH3=.;
      ELSE WIDTH3=80;
  END;
  %if &prefix.=p %then %do;
     WIDTH3=.;
  %end;
  %else %if &var3.=0 %then %do;
      WIDTH_COL1=.;
    WIDTH3=40; */
/* MER 05/02/09 new values for V4 frames */
     WIDTH COL1=80;
     /* MER 05/02/09 */
     %if &var2.=0 %then %do;
       WIDTH3=44;
     %end;
     %else %do;
       WIDTH3=43;
     %end;
  %end;
RUN;
OPTIONS LS=152;
PROC PRINT;
VAR BENEFIT BENTYPE TIMEPD REGION REGCAT MAJGRP;
RUN CANCEL;
PROC PRINT;
```

```
VAR BENEFIT BENTYPE REGION REGCAT MAJGRP;
RUN CANCEL;
/***********************
/**** Put out Header rows of table
DATA HTML;
 SET SUBSET4;
 LENGTH HREFBACK $100;
 IF REGION IN("Benchmark");
  /** Determine where back button should link to **/
 %if &var1.=0 %then %do;
    HREFBACK=COMPRESS("&prefix.9-0-0.htm");
  %end;
 %else %do;
    HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
  /*** Create macro variable date with today's date ***/
 DATETIME=DATETIME();
 CALL SYMPUT ('DATETIME', left(put(datetime, datetime20.)));
 DROP DATETIME;
RUN;
/*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
%if &prefix=f %then %do;
   /*** Make frameset page split frames smaller on all ratings pages ***/
   %if &var3.=0 %then %do;
        %let splitpixel=228;
    %end;
   %else %if &var3.=1 OR &var3.=2 %then %do;
        %let splitpixel=211;
   %end;
   %else %if &var3.=5 OR &var3.=11 %then %do;
        %let splitpixel=181;
   %end;
   %else %if &var3.=3 %then %do;
        %let splitpixel=196;
   %else %if &var3.=4 %then %do;
        %let splitpixel=221;
   %else %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
        %let splitpixel=158;
   %else %if &var3.=10 %then %do;
        %let splitpixel=192;
   %end;
    %if &SEPPAGE.=2 %then %do;
       %let splitpixel=157;
   %end;
   /*** Create frameset page HTML page ***/
  DATA NULL;
    FILE "&FILEOUT1.";
    PUT "<html>";
    PUT "<frameset rows='&splitpixel.,*'>";
     %if &seppage.=2 %then %do;
      PUT " <frame src='f&var1.-&var2.-&var3.-&var4.qa.htm' MARGINHEIGHT='0'
MARGINWIDTH='0'>";
      PUT " <frame src='f&var1.-&var2.-&var3.-&var4.qb.htm' MARGINHEIGHT='0'
MARGINWIDTH='0'>";
     %end;
```

```
%else %do;
      PUT " <frame src='f&var1.-&var2.-&var3.-&var4.a.htm' MARGINHEIGHT='0'
MARGINWIDTH='0'>";
      PUT " <frame src='f&var1.-&var2.-&var3.-&var4.b.htm' MARGINHEIGHT='0'
MARGINWIDTH='0'>";
    %end;
   PUT "</frameset></html>";
  RIIN;
  /*** Since done making frameset page then assign fileout1 = frame 1 ***/
  %let fileout1=&fileout2.;
  %if &seppage.=1 %then %do;
     %let fileout1=&fileout2.;
   %end;
   %else %if &seppage.=2 %then %do;
     %let fileout1=&fileout2.;
   %end;
%end;
/*** Initialize HTML page ***/
DATA _NULL_;
 FILE "&FILEOUT1.";
 PUT "<! Created &datetime.>";
 PUT "<html><head><title>";
 PUT "&major. &comma. &sub_ben., &sub_regs.";
 PUT "</title></head>";
 PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";
 /*** link to printer friendly version moved, 10/25/2001 C.Rankin ***/
RUN;
/*----*/
/* 2000/11: begin xls code */
/*____*/
%if &outxls.=1 %then %do;
 X "COPY &template. &fileoutX.";
                                                        /* copy template xls to run-
specific xls file */
 X "START &fileoutX.";
                                                        /* open run-specific xls file
FILENAME XLSTITLE DDE 'excel|Sheet1!R1C1:R2C20' NOTAB;
                                                        /* xls rows 1 & 2 (titles)
FILENAME XLSDATA DDE 'excel|Sheet1!R6C1:R100C20' NOTAB;
                                                       /* xls rows 6+ (body of table)
* /
%end;
/*----*/
/* 2000/11: end xls code */
/*** If ALL benefits (VAR3=0) then do special column headers ***/
%if &var3.=0 %then %do;
DATA _NULL_;
 SET HTML END=EOF;
 *LENGTH HREF $ 250; /*MJS 01/29/04 Commented out statement*/
 IF _N_=1 THEN DO;
       FILE "&FILEOUT1." MOD;
                             /* 2000/11: moved file stmt inside if stmt */
        /*** put table title ***/
       </font></center></h2>"**/
```

```
/** MF Changes ROW 1 **/
      PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
colspan=12 width='&width1.'>";
      PUT "";
      PUT "
             <img border='0' height='25'</pre>
width='242' src=&logo.>";
      PUT "
           ";
      PUT "
                 <div align='right'>";
      PUT "
                 <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
alt='Return to Main Page'></a>&htmlsp. %htmlsp.";
      PUT "&goback.";
                 <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
      PUT "
border='0' alt='Return to Top Level'></a></noscript>";
      PUT "
                &htmlsp. &htmlsp.";
      PUT "
                 <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
      PUT "
            ";
      PUT "";
      PUT "";
      יי דווק
                ";
      PUT "
                      <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs.<br>";
      PUT "
                      &sub_ben.</b></font>";
      PUT "
               ";
      PUT "";
      /*** Print out 3rd row ***/
      /*** ÛÛ FRAMES SECTION ÛÛ ***/
       /***here***/
      %if &prefix=f %then %do;
          PUT "";
          /**RSG~02/2005 add in a dummy gif to align titles and comment out extra cell**/
          PUT "<IMG SRC='&imgdir.\dummy.gif' ALT=' ' BORDER=0>";
          PUT "<IMG SRC='&imgdir.\eoa.gif'ALT='Ease of Access'
BORDER=0>";
          {\tt PUT "<IMG SRC='\&imgdir.\com\_cus\_ser.gif' ALT='Communication'}
and Customer Service' BORDER=0>";
          PUT "<IMG SRC='&imqdir.\ratings0.qif' ALT='Ratings'
BORDER=0>";
          PUT "<IMG SRC='&imgdir.\prevention.gif' ALT='Prevention'
BORDER=0>";
          PUT "<IMG SRC='&imgdir.\healthy.gif' ALT='Healthy Behaviors'
BORDER=0>";
          PUT "";
          PUT "";
       %end;
       %else %do;
          PUT "";
          PUT "&htmlsp.";
          PUT "<font face='&fontface.'
size='2'><b>Ease of Access</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Communication and Customer Service</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Ratings</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Prevention</b></font>";
          PUT "<font face='&fontface.'
size='2'><b>Healthy Behaviors</b></font>";
          PUT "";
          PUT "";
       %end;
      /*** Print out 1st column of 4th row ***/
```

```
/*** ÛÛ FRAMES SECTION ÛÛ ***/
       %if &prefix=f %then %do;
          PUT "&htmlsp.";
       %end;
       %else %do;
          PUT "<font face='&fontface.'>&htmlsp.</font>";
       %end;
       bennum=1; /** index to all 11 benefits **/
       /*____*/
       /* 2000/11: begin xls code */
       /*----*/
       %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        PUT "&major. &comma. &sub_regs.";
        PUT "%cmpres('&sub_ben.')";
       %end;
       /* 2000/11: begin xls code */
 END;
  FILE "&FILEOUT1." MOD ;
                                  /* 2000/11: refer back to htm file */
  /*** Put Benefits across columns (Continuation of 4th row) ***/
  HREF=COMPRESS("..\html\&prefix.&var1.-&var2.-"||bennum||"-&var4..htm");
  /** If TOTAL benefit then don't have HREF **/
  /*** ÛÛ FRAMES SECTION ÛÛ ***/
  %if &prefix=f %then %do;
    IMAGE=COMPRESS("&imgdir.\image0_"||bennum||".gif");
    IF BENNUM=0 THEN PUT "<IMG SRC='&imgdir.\image0_0.gif'
alt='Total' BORDER=0>";
   ELSE PUT "<a href=""" HREF +(-1) """ &target.><IMG SRC='"
IMAGE "' alt='" BENEFIT "' BORDER=0></a>";
  %end;
  %else %do;
    IF BENNUM=0 THEN PUT "<font
face='&fontface.'size='1'>" &HEADVAR. "</font>";
   ELSE PUT "<font face='&fontface.'size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
  %end;
 bennum+1;
 IF EOF THEN DO;
  PUT "";
 END;
RUN;
%end;
/*** If Sub-benefit (VAR3^=0) then do differently ***/
/*** If not separate page (SEPPAGE=0) for quarterly info then do as before ***/
%else %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
DATA _NULL_;
 SET HTML END=EOF;
 *LENGTH HREF $ 250;
 COLUMNS=&columns.;
```

```
SPAN2=ROUND(COLUMNS/2,1);
 SPAN1=COLUMNS-SPAN2;
 IF _N_=1 THEN DO;
      FILE "&FILEOUT1." MOD ;
       /** MF Changes ROW 1 **/
       PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bqcolor='#D8D8D8'
width='&width2.'>";
       PUT "";
       PUT " <img border='0'
height='25' width='242' src=&logo.>";
       PUT " <td colspan=""" SPAN2 +(-1) """ align='right' valign='bottom'
bgcolor='#999999'>";
       PUT "
                    <div align='right'>";
       PUT "
                   <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
alt='Return to Main Page'></a>&htmlsp. %htmlsp.";
       PUT "&goback.";
       PUT "
                    <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
       PUT "
                   &htmlsp. &htmlsp.";
       PUT "
                    <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
       PUT " ";
       PUT "";
       /** MF Changes ROW 2 **/
       PUT "";
       PUT "
                   <td valign='center' align='center' colspan=""" COLUMNS +(-1) """
bgcolor='#D8D8D8'>";
       PUT "
                         <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";
       /*** If ratings then don't display reference period ***/
       %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
                     ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;
                               &sub_ben.</b></font>";
            יי ידווק
       %end;
       %else %do;
            PUT "
                               &sub_ben.<BR>&currentperiod.</b></font>";
       %end;
       PUT "
                  ";
       PUT "";
       /*** Sub head macro variable added C.Rankin 10/25/2001 ***/
       %if &sub_head.=1 %then %do;
          /** 3rd Row ***/
          /** ÛÛ FRAMES SECTION ÛÛ ***/
          %if &prefix=f %then %do;
              PUT "&htmlsp."; /** Column 1 **/
              /*** If sub-benefits then output sub-benefit columns ***/
              %if &subcols.^=0 %then %do;
                IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
                PUT "<IMG SRC=" IMAGE "
alt='" BENEFIT "' BORDER=0>";
               PUT "<IMG
SRC='&imgdir.\composite.gif' ALT='Composite' BORDER=0>";
              %end;
              %else %do;
                PUT "<IMG
SRC='&imgdir.\border_rating.gif' ALT='Ratings' BORDER=0>";
```

```
%end;
          %else %do;
              PUT "&htmlsp."; /** Column 1 **/
              /*** If sub-benefits then output sub-benefit columns ***/
              %if &subcols.^=0 %then %do;
               PUT "<font
face='&fontface.'><b>&sub_ben.<br/>omponents</b></font>";
               PUT "<font
face='&fontface.'><b>Composite</b></font>";
              %end;
              %else %do;
               PUT "<font
face='&fontface.'><b>Ratings</b></font>";
              %end;
          %end;
       %end;
       /*** 4th Row start (column 1) ***/
       /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
       %if &prefix=f %then %do;
         PUT "<font face='&fontface.'>";
         PUT "<img src='&imgdir.\blank_35_50.gif'
border=0>";
       %end;
       %else %do;
        PUT "<font face='&fontface.'>";
        PUT "&htmlsp.";
       %end;
       /*____*/
       /* 2000/11: begin xls code */
       /*_____*/
       %if &outxls.=1 %then %do;
        FILE XLSTITLE;
         PUT "&major. &comma. &sub_regs.";
        PUT "%cmpres('&sub_ben.')";
       /* 2000/11: begin xls code */
 END:
 FILE "&FILEOUT1." MOD ;
                                  /* 2000/11: refer back to htm file */
 /*** Print out column headings ***/
     HREF=COMPRESS("..\html\help.htm#q&var3.");
     HREF1=COMPRESS("..\html\help.htm#trend");
 /*** 4th Row (columns 2+) ***/
 /*** If quarter column then HREF link is different ****/
 /*** ÛÛ FRAMES SECTION ÛÛ ***/
 %if &prefix=f %then %do;
    IF _N_>&subcols. THEN IMAGE=COMPRESS("&imgdir.\col"||_N_-&subcols.||".gif");
    ELSE IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
    /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE */
    IF TIMEPD NE "TREND" AND TIMEPD NE "TREND*" THEN PUT "<a
href=""" HREF +(-1) """ &target.><IMG SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a>";
   ELSE PUT "<a href=""" HREF1 +(-1) """ &target.><IMG
SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a>";
 %else %do;
    /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE */
    IF TIMEPD NE "TREND" AND TIMEPD NE "TREND*" THEN PUT "<td width='10%' align='center'
valign='bottom'><font face='&fontface.' size='1'><a href=""" HREF +(-1) """ &target.>" &HEADVAR.
"</a></font><
```

```
ELSE PUT "<font face='&fontface.' size='1'><a
\label{eq:href} \verb| href=""" HREF1 + (-1) """ & target.>" & HEADVAR. "</a></font>|
 %end;
 IF EOF THEN DO;
   PUT "</font>";
RUN;
%end;
/*** Added MAB 11-20-2000 ***/
/*** If Sub-benefit then do differently ***/
/*** If separate page (SEPPAGE=1) then create 1st of 2 HTML files ***/
/*** 1 for data without qtrly info and 1 for just qtrly info ***/
%else %if &seppage.=1 %then %do;
DATA HTML2;
 SET HTML;
 IF TIMEPD="&currentperiod.";
 IF BENTYPE="Composite" THEN DELETE;
/*** Remove gtrs from column counts ***/
%let columns=%EVAL(&columns.-&qtrs.);
/*** Do sub-benefit page without any qtrly info ***/
DATA _NULL_;
 SET HTML2 END=EOF;
 FILE "&FILEOUT1." MOD ;
 COLUMNS=&columns :
 SPAN2=ROUND(COLUMNS/2,1);
 SPAN1=COLUMNS-SPAN2;
 IF _N_=1 THEN DO;
       FILE "&FILEOUT1." MOD ;
        /** MF Changes ROW 1 **/
        PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bqcolor='#D8D8D8'
width='&width2.'>";
        PUT "";
        PUT " <img border='0'
height='25' width='242' src=&logo.>";
       PUT " <td colspan=""" SPAN2 +(-1) """ align='right' valign='bottom'
bgcolor='#999999'>";
        PUT "
                     <div align='right'>";
        /** RSG - 09/02/03 Second set of trend pages need to refer to var4=0 pages **/
        PUT "
                    <a href='..\html\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img</pre>
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
        PUT "
                    <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
alt='Return to Main Page'></a>&htmlsp. ";
        PUT "&goback.";
```

```
PUT "
                 <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
            &htmlsp. ";
       PUT "
       PUT "
                  <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
       PUT " ";
       PUT "";
       /** MF Changes ROW 2 **/
       PUT "";
       PUT "
                 <td valign='center' align='center' colspan=""" COLUMNS +(-1) """
bgcolor='#D8D8D8'>";
      PUT "
                        <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";
       PUT "
                        &sub_ben.<BR>&currentperiod.</b></font>";
       PUT " ";
       PUT "";
       /*** Sub_head macro variable added C.Rankin 10/25/2001 ***/
       %if &sub_head.=1 %then %do;
         /*** 3rd Row ***/
         /*** ÛÛ FRAMES SECTION ÛÛ ***/
         %if &prefix=f %then %do;
            PUT "&htmlsp."; /** Column 1 **/
            IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
           PUT "<IMG SRC=" IMAGE "
alt='" BENEFIT "' BORDER=0>";
         %end;
         %else %do;
           PUT "&htmlsp."; /** Column 1 **/
           PUT "<font
face='&fontface.'><b>&sub_ben.<br/>components</b></font>";
         %end;
       %end;
       /*** 4th Row start (column 1) ***/
       /*** ÛÛ FRAMES SECTION ÛÛ ***/
       %if &prefix=f %then %do;
        PUT "<font face='&fontface.'>";
     if columns ne 3 and columns ne 6 and columns ne 4 then do;
          PUT "<img src='&imgdir.\blank_50_50.gif'
border=0>";
        end;
     else if columns = 3 or columns = 4 then do;
          PUT "<img src='&imgdir.\blank_120_50.gif'
border=0>";
     end;
     else if columns = 6 then do;
          PUT "<img src='&imgdir.\blank_145_50.gif'
border=0>";
     end;
       %end;
       %else %do;
        PUT "<font face='&fontface.'>";
        PUT "&htmlsp.";
       %end;
 qnum=1; /**RSG 08/07/03 Added as counter to use to for link to the trend pages**/
       /*----*/
       /* 2000/11: begin xls code */
       /*____*/
       %if &outxls.=1 %then %do;
        FILE XLSTITLE;
        PUT "&major. &comma. &sub_regs.";
```

```
PUT "%cmpres('&sub_ben.')";
        %end;
        /* 2000/11: begin xls code */
        /*----*/
 END;
 FILE "&FILEOUT1." MOD ;
                                    /* 2000/11: refer back to htm file */
 /*** Print out column headings ***/
 /*HREF=COMPRESS("help.htm#g&var3.");
 HREF=COMPRESS("..\html\&prefix.&var1.-&var2.-&var3.-"||qnum||"&unq..htm");
   *** RSG 08/07/03 Use qnum counter to refer to subbenefit trend pages;
******************************
 /*** 4th Row (columns 2+) ***/
 /*** If quarter column then HREF link is different ****/
 /*** ÛÛ FRAMES SECTION ÛÛ ***/
 %if &prefix=f %then %do;
    IMAGE=COMPRESS("&imgdir.\image&var3._"||_N_||".gif");
    PUT "<a href=""" HREF +(-1) """ &target.><IMG SRC='"
IMAGE "' alt='" BENTYPE "' BORDER=0></a>";
 %end;
 %else %do;
   PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
 %end;
 qnum+1; *** RSG 08/07/03 Added to increase the counter;
 IF EOF THEN DO;
  PUT "</font>";
   /*** 2-2 MAB removed scale row ***/
 END;
RUN;
%end;
/*** If separate page (SEPPAGE=2) then create 2nd of 2 HTML files ***/
/*** 1 for data without qtrly info and 1 for just qtrly info ***/
%else %if &seppage.=2 %then %do;
/*** Keep only qtrs in column counts ***/
%let columns=%EVAL(&qtrs.+2);
/*** Then do sub-benefit page with just qtrly info ***/
DATA JUSTQTR;
 SET HTML;
 /*** Since spliting up table need to delete some records ***/
 * IF BENTYPE="Composite"; ***DKB ADDED TREND on 4/29/2002 to account for trend col;
 %if &var4. = 0 %then %do; **RSG ADDED TREND FOR BENTYPES on 8/7/2003 - select
                                records appropriate for bentype;
       IF BENTYPE="Composite";
 %end;
 %else %if &var4. ne 0 and BENTYPE ne "Composite" %then %do;
       %if &var3. = 1 %then %do;
          %if &var4. = 1 %then %do;
              IF BENTYPE = "Getting to See a Specialist";
          %else %if &var4. = 2 %then %do;
             IF BENTYPE = "Getting Treatment";
```

```
%if &var4. = 1 %then %do;
               IF BENTYPE = "Wait for Routine Visit";
            %end;
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Wait for Urgent Care";
        %end;
        %else %if &var3. = 3 %then %do;
            %if &var4. = 1 %then %do;
               IF BENTYPE = "Listens Carefully";
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Explains so You Can Understand";
            %end;
            %else %if &var4. = 3 %then %do;
               IF BENTYPE = "Shows Respect";
            %end;
            %else %if &var4. = 4 %then %do;
               IF BENTYPE = "Spends Time with You";
        %end;
        %else %if &var3. = 4 %then %do;
            %if &var4. = 1 %then %do;
               IF BENTYPE = "Getting Information";
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Courteous Customer Service";
            %end;
        %end;
        %else %if &var3. = 5 %then %do;
            %if &var4. = 1 %then %do;
                IF BENTYPE = "Claims Handled in a Reasonable Time";
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Claims Handled Correctly";
            %end;
        %end;
        %else %if &var3. = 10 %then %do;
            %if &var4. = 1 %then %do;
                IF BENTYPE = "Mammography";
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Pap Smear";
            %end;
            %else %if &var4. = 3 %then %do;
               IF BENTYPE = "Hypertension";
            %else %if &var4. = 4 %then %do;
               IF BENTYPE = "Prenatal Care";
        %end;
        %else %if &var3. = 11 %then %do; /*** MAB Added 2/11/2005 ***/
            %if &var4. = 1 %then %do;
                IF BENTYPE = "Non-Smoking Rate";
            %else %if &var4. = 2 %then %do;
               IF BENTYPE = "Counselled To Quit";
            %end;
                        %else %if &var4. = 3 %then %do;
                                IF BENTYPE = "Percent Not Obese";
                        %end;
        %end;
        call symput('sub2_ben',BENTYPE); **create macro var to use in sub-benefit
                                           trend pages (below) - RSG 08/07/03;
  %end;
RUN;
DATA _NULL_;
```

%end;

%else %if &var3. = 2 %then %do;

```
SET JUSTQTR END=EOF;
 FILE "&FILEOUT1." MOD ;
 COLUMNS=&columns.;
 SPAN2=ROUND(COLUMNS/2.1);
 SPAN1=COLUMNS-SPAN2;
 IF _N_=1 THEN DO;
      FILE "&FILEOUT1." MOD ;
        /** MF Changes ROW 1 **/
       PUT "<center><table border='&border.' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
width='&width2.'>";
       PUT "";
       PUT " <img border='0'
height='25' width='242' src=&logo.>";
       PUT " <td colspan=""" SPAN2 +(-1) """ align='right' valign='bottom'
bgcolor='#999999'>";
                     <div align='right'>";
       PUT "
                    <a href='..\html\&prefix.&var1.-&var2.-&var3.-0&unq..htm' &target.><img</pre>
src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
       PUT "
                   <a href='..\html\index.htm' &target.><img src=&home_but. border='0'</pre>
alt='Return to Main Page'></a>&htmlsp. %htmlsp.";
       PUT "&goback.";
       PUT "
                    <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
       PIIT "
              &htmlsp.";
       PUT "
                    <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a></div>";
       PUT " ";
       PUT "";
       /** MF Changes ROW 2 **/
       PUT "";
       PUT "
                   bgcolor='#D8D8D8'>";
       יי ידוזק
                          <font face='&fontface.' color='#3333cc' size='5'><b>&major. &comma.
&sub_regs. <br>";
       PIIT "
                           &sub_ben.</b></font><br>";
       /*** For trend data for each benefit type, display benefit type - RSG 08/07/03***/
       %if &var4. ne 0 %then %do;
                          <font face='&fontface.' color='#3333cc' size='4'><b>";
       PUT "
                           &sub2_ben.</b></font>";
        %end;
       PUT "
                  ";
       PUT "";
       /*** 3rd Row ***/
        /*** ÛÛ FRAMES SECTION ÛÛ ***/
        /**PUT ""**/
        /*** 4th Row start (column 1) ***/
        /*** ÛÛ FRAMES SECTION ÛÛ ***/
        %if &prefix=f %then %do;
         PUT "<font face='&fontface.'>";
PUT "<img src='&imgdir.\blank_75_50.gif'</pre>
border=0>";
       %end;
        %else %do;
         PUT "<font face='&fontface.'>";
         PUT "&htmlsp.";
```

```
/* 2000/11: begin xls code */
        %if &outxls.=1 %then %do;
         FILE XLSTITLE;
         PUT "&major. &comma. &sub_regs.";
         %if &var4. = 0 %then %do;
          PUT "%cmpres('&sub_ben.')";
         %end;
         %else %do;
          PUT "%CMPRES('&sub_ben. &comma. &sub2_ben.')";
        %end;
        /* 2000/11: begin xls code */
        /*----*/
 END;
 FILE "&FILEOUT1." MOD ;
                                    /* 2000/11: refer back to htm file */
 /*** Print out column headings ***/
     LENGTH HREFf1 $250;
     LENGTH HREFf2 $250;
     LENGTH HREFf3 $250;
     LENGTH HREFp1 $250;
     LENGTH HREFp2 $250;
     LENGTH HREFp3 $250;
     LENGTH HREF5 $250;
     ****7-29-2002 DKB ADDED LINKS TO COMPONENT PAGES OF PREVIOUS QUARTERS FROM TREND PAGE****;
     ***FRAMES***;
      HREFf1=COMPRESS("..\Period1\f&var1.-&var2.-&var3.-0.htm");
      HREFf2=COMPRESS("..\Period2\f&var1.-&var2.-&var3.-0.htm");
      HREFf3=COMPRESS("f&var1.-&var2.-&var3.-0.htm");
      ***NO FRAMES***;
      HREFp1=COMPRESS("..\Period1\p&var1.-&var2.-&var3.-0.htm");
      HREFp2=COMPRESS("..\Period2\p&var1.-&var2.-&var3.-0.htm");
      HREFp3=COMPRESS("p&var1.-&var2.-&var3.-0.htm");
      ****HELP FILE FOR TREND COLUMN***;
      HREF5=COMPRESS("..\html\help.htm#trend"); /*7-29-2002 DKB ADDED LINK FOR TREND SECTION
OF HELP FILE*/
   /*** 4th Row (columns 2+) ***/
 /*** If quarter column then HREF link is different ****/
 /*** ÛÛ FRAMES SECTION ÛÛ ***/
 %if &prefix=f %then %do;
   IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif"); *DKB CHANGED IMAGE NAME FROM QTR TO COL;
   IF N =1 THEN HREF=HREFf1;
   ELSE IF _N_=2 THEN HREF=HREFf2;
   ELSE IF _N_=3 THEN HREF=HREFf3;
ELSE IF _N_=4 THEN HREF=HREF5;
   PUT "<a href=""" HREF +(-1) """ &target.><IMG SRC='" IMAGE
"' alt='" TIMEPD "' BORDER=0></a>";
 %end;
 %else %do;
```

```
IF _N_=1 THEN HREF=HREFp1;
   ELSE IF _N_=2 THEN HREF=HREFp2;
   ELSE IF _N_=3 THEN HREF=HREFp3;
ELSE IF _N_=4 THEN HREF=HREF5;
    /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE*/
   PUT "<font face='&fontface.' size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font>";
  %end;
 IF EOF THEN DO;
   PUT "</font>";
 END;
RUN;
%end;
/*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
%if &prefix=f %then %do;
 /*** Close out header HTML page ***/
 DATA _NULL_;
   FILE "&FILEOUT1." MOD;
   PUT "</center>";
   PUT "</body></html>";
 RUN;
  /*** Since done making frame 1 page then assign fileout1 = frame 2 ***/
  %let fileout1=&fileout3.;
  /*** Initialize out data HTML page ***/
 DATA _NULL_;
   FILE "&FILEOUT3.";
   PUT "<! Created &datetime.>";
   PUT "<html>";
   PUT "<body bgcolor='#999999' text='#000099' link='#660066' alink='#660066' vlink='#996699'>";
   PUT "<center><table border='1' cellpadding='2' cellspacing='0' bgcolor='#D8D8D8'
cols=&columns. width=640>";
%end;
%if &seppage.=0 OR &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
DATA HTML3;
 SET SUBSET4;
RIIN;
%end;
%else %if &seppage.=1 %then %do;
DATA HTML3;
 SET SUBSET4;
 IF TIMEPD="&currentperiod.";
  /*** Since spliting up table need to delete some records ***/
  %IF &VAR3. NE 0 %THEN %DO;
     IF BENTYPE="Composite" THEN DELETE;
 %END;
RUN;
```

```
%end;
%else %if &seppage.=2 %then %do;
DATA HTML3;
  SET SUBSET4;
  /*** Since spliting up table need to delete some records ***/
  /*** Modified 2-2 MAB to deal with new period values **/
 IF BENTYPE=&BEN_TYPE;
RUN;
%end;
/*\hat{\mathbb{U}}\hat{\mathbb{U}}\hat{\mathbb{U}} ALL MAJGRPS \hat{\mathbb{U}}\hat{\mathbb{U}}\hat{\mathbb{U}}^*/
%if &var1.=0 %then %do;
DATA HTML4;
  SET HTML3 END=EOF;
  IF MAJGRP="Prime Enrollees" THEN MAJNUM=1;
  IF MAJGRP="Enrollees with Military PCM" THEN MAJNUM=2;
  IF MAJGRP="Enrollees with Civilian PCM" THEN MAJNUM=3;
  IF MAJGRP="Standard/Extra Users" THEN MAJNUM=4;
  IF MAJGRP="Purchased Care Users" THEN MAJNUM=5;
  IF MAJGRP="Active Duty" THEN MAJNUM=6;
  IF MAJGRP="Active Duty Dependents" THEN MAJNUM=7;
  IF MAJGRP="Retirees and Dependents" THEN MAJNUM=8;
  IF MAJGRP="All Users" THEN MAJNUM=9;
  /*** HREF link to another page ***/
/* HREF=COMPRESS("..\html\&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
    RSG 02/2005 - changed for period1-3, link goes to that period component page*/
    HREF=COMPRESS("&prefix."||MAJNUM||"-0-&var3.-&var4.&q..htm");
  LENGTH HREFQ LMAJGRP $ 100;
  RETAIN LMAJGRP;
  IF _N_=1 THEN DO;
     T.MA.TGRP=" ";
     ROW=0;
    /*** Add links to trend data 7.6.2001 MAB ***/
    %let columns_less1=%EVAL(&columns.-1);
    %if &seppage.=0 %then %do;
          FILE "&FILEOUT1." MOD ;
          PUT "<font face='&fontface.'
size='2'><b>Trends</b></font>";
          %do i=1 %to 11;
             %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do; ***MJS 04/14/03 Changed
8,9,10,11 to 7,8,9,10;
                 HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0q.htm");
             %end;
             %else %do;
                HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0.htm");
             %if &prefix.=f %then %do;
               PUT "<a href='" HREFO "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a>";
             %else %do;
               PUT "<a href='" HREFQ "' &target.><CENTER><img src='&imgdir.\trend_row.gif'
border=0></CENTER></a>";
             %end;
          %end;
          PUT "";
    %end;
```

```
IF LMAJGRP^=MAJGRP THEN DO;
                                 /*** Start new row ***/
      FILE "&FILEOUT1." MOD ;
      ROW+1;
      IF LMAJGRP^=" " THEN PUT "";
      /*** Column 1 / Row 1 ***/
      /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
      %if &prefix=f %then %do;
         IF MAJGRP IN("Benchmark") THEN PUT "<b><font
face='&fontface.' size='2'>" MAJGRP "</font></b>"; /*** no HREF links ***/
      %end;
      %else %do;
         IF MAJGRP IN("Benchmark") THEN PUT "<b><font face='&fontface.' size='2'>"
MAJGRP "</font></b>";
                                           /*** no HREF links ***/
      %end;
      /*** Column 1 / Row 2+ ***/
      ELSE IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.'
size='2'><a href=""" HREF +(-1) """ &target.> " MAJGRP " </a></font>"; /** Shade row **/
      ELSE PUT "<font face='&fontface.' size='2'><a href=""" HREF +(-1) """ &target.> "
MAJGRP " </a></font>";
      /* 2000/11: begin xls code */
      /*----*/
       %if &outxls.=1 %then %do;
        FILE XLSDATA;
        IF LMAJGRP^=" " THEN
                                 PUT " ";
        IF REGION IN("Benchmark") THEN PUT REGION '09'x @@; /* '09'x ensures text string is
put into one cell */
                                 PUT MAJGRP '09'x @@; /* rather than spanning across
       ELSE IF MOD(ROW, 2)=0 THEN
cells
                                  PUT MAJGRP '09'x @@;
        ELSE
       %end;
      /* 2000/11: end xls code */
      LMAJGRP=MAJGRP;
 END;
 /*** Column 2+ ***/
 /***********************************
 /**** Need to output different formats ****/
 /**************
 FILE "&FILEOUT1." MOD ;
                         /* 2000/11: refer back to htm file */
 IF MAJGRP IN("Benchmark") THEN DO;
     IF SCORE=. THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SCORE=.A THEN PUT "<b><font
color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
 END;
 ELSE DO;
   IF SCORE=. THEN DO;
      PUT "<b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE IF SCORE=.A THEN DO;
      PUT "<b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b>";
```

```
END;
   ELSE DO;
      IF SIG=1 THEN PUT "<b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=. THEN PUT "<b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=.A THEN PUT "<b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=-1 THEN PUT "<i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i>";
     ELSE PUT "<font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font>";
   END;
 END;
 /* 2000/11: begin xls code */
 /*----*/
 %if &outxls.=1 %then %do;
   FILE XLSDATA;
   IF MAJGRP IN("Benchmark") THEN DO;
       IF SCORE=. THEN
                      PUT "***" '09'x @@;
       ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
                          PUT SCORE '09'x @@;
   END;
   ELSE DO;
     IF SCORE=. THEN DO;
       PUT "***" '09'x @@;
     END;
     ELSE IF SCORE=.A THEN DO;
       PUT "NA" '09'x @@;
     END;
     ELSE DO;
        IF SIG=1 THEN
                        PUT SCORE '09'x @@;
        ELSE IF SIG=. THEN PUT "***" '09'x @@;
        ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
        ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
        ELSE
                         PUT SCORE '09'x @@;
     END;
   END;
 %end;
 /*----*/
 /* 2000/11: end xls code */
 /*----*/
 IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ;
                                             /* 2000/11: to refer back to htm file */
    PUT ""; /*** terminate last row ***/
    %BOTTOM_NOTES; /** Macro with bottom notes **/
   /*____*/
   /* 2000/11: begin xls code */
   /*----*/
    %if &outxls.=1 %then %do;
      FILE XLSDATA;
      PITT; PITT;
       %if (&var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2) %then %do;
        PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through
&SRCYR2"; ***MJS 03/24/04 Changed hard-coded year to macro variable;
                                                                  /* MER 11/21/08
Changed "and" to "through" */
       %end;
       %else %do;
        PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04
Changed hard-coded year to macro variable;
       %end;
        PUT "Indicates score significantly exceeds benchmark";
        PUT "Indicates score significantly falls short of benchmark";
        PUT "NA Indicates not applicable";
```

```
PUT "*** Indicates suppressed due to small sample size";
        %if &var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2 %then %do;
           %if &var2.=0 %then %do;
            PUT "* For 2011, Walter Reed and Ft. Belvoir are included in North Joint Service
despite not being classified as such until 2012"; /*MER 11/22/12 Temp note for 2010/11*/
           %else %if &var2.=12 %then %do;
            PUT "* For 2011, Walter Reed and Ft. Belvoir are included in North Joint Service
despite not being classified as such until 2012"; /*MER 11/22/12 Temp note for 2010/11*/
            PUT "# For 2011, Walter Reed Natl Mil Med Cntr scores include NNMC Bethesda and
Walter Reed AMC which were consolidated in 2012"; /*MER 11/22/12 Temp note for 2010/11*/
          %end;
        %end;
     %end;
    /*----*/
    /* 2000/11: end xls code */
    /*----*/
 END;
RIIN:
%end;
/*\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}} All Regions \hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}*/
%if &var2.=0 %then %do;
DATA HTML4;
 SET HTML3 END=EOF;
 LENGTH LREGION HREFQ $ 100;
 RETAIN LREGION;
  IF _N_=1 THEN DO;
     LREGION=" ";
    REGNUM=1;
    ROW=0;
   %let columns_less1=%EVAL(&columns.-1);
    %if &seppage.=0 %then %do;
         FILE "&FILEOUT1." MOD ;
         PUT "<font face='&fontface.'
size='2'><b>Trends</b></font>";
           %do i=1 %to 11;
                           ***RSG 02/2005 changed 11 to 12 since we now have 12 benefits;
             %if &i.^=6 AND &i.^=7 AND &i.^=8 AND &i.^=9 %then %do; ***MJS 04/14/03 Changed
from 8,9,10,11 to 7,8,9,10;
                HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0q.htm"); /*** href to 2nd
html file ***/
             %end;
             %else %do;
                HREFQ=COMPRESS("..\html\&prefix.&var1.-&var2.-&i.-0.htm"); /*** href to 2nd
html file ***/
             %end;
             %if &prefix.=f %then %do;
              PUT "<a href='" HREFQ "' &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a>";
        %end;
        %else %do;
              PUT "<a href='" HREFQ "' &target.><CENTER><img src='&imgdir.\trend_row.gif'
border=0></CENTER></a>";
        %end;
          %end;
         PUT "";
    %end;
```

END;

```
IF LREGION^=REGION THEN DO;
                                     /*** Start new row ***/
       FILE "&FILEOUT1." MOD ;
       ROW+1;
       IF LREGION^=" " THEN PUT ""; /*** terminate previous row ***/
       /*____*/
       /* 2000/11: begin xls code */
       /*----*/
       %if &outxls.=1 %then %do;
         FILE XLSDATA;
        IF LREGION^=" " THEN PUT " ";
                                           /*** terminate previous row ***/
        FILE "&FILEOUT1." MOD ;
                                            /* 2000/11: to refer back to htm file */
       %end;
       /* 2000/11: end xls code */
       /*----*/
       /*** Column 1 / Row 1 ***/
       /*** \hat{\mathbf{U}}\hat{\mathbf{U}} FRAMES SECTION \hat{\mathbf{U}}\hat{\mathbf{U}} ***/
       %if &prefix=f %then %do;
         IF REGION IN("Benchmark") THEN PUT "<b><font
face='&fontface.' size='2'>" REGCAT "</font></b>"; /*** no HREF links ***/
       %else %do;
         IF REGION IN("Benchmark") THEN PUT "<br/>font face='&fontface.' size='2'>"
REGCAT "</font></b>"; /*** no HREF links ***/
       ELSE DO; /*** HREF links for each region ***/
         /*HREF=COMPRESS("..\html\&prefix.&var1.-"||REGNUM||"-&var3.-&var4.&q..htm");*/ /** MAB
3-16-2005 Added VAR1 **/
         / {\rm *RSG~02/2005~-~Changed~link~so~period1-3~will~link~to~appropriate~component~page*/} \\
         HREF=COMPRESS("&prefix.&var1.-"||REGNUM||"-&var3.-&var4.&q..htm");
         /*** Column 1 / Row 2+ ***/
         %if &prefix=f %then %do;
         %if &var1.=3 or &var1.=4 or &var1.=5 or &var1.=7 or &var1.=8 %then %do;
               IF MOD(ROW, 2) = 0 THEN PUT "<font face='&fontface.'
size='2'> " REGCAT " </font>";
                ELSE PUT "<font face='&fontface.' size='2'> " REGCAT " </font>";
         %end;
         %else %do;
                if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
                  regcat = "OVERSEAS" or regcat="US MHS" then do;
               IF MOD(ROW,2)=0 THEN PUT "<b><font face='&fontface.'
size='2'> " REGCAT " </b></font>";
                  ELSE PUT "<b><font face='&fontface.' size='2'> " REGCAT "
</b></font>";
                else if regcat = "ARMY" or regcat = "NAVY" or regcat = "AIR FORCE" or
                   regcat = "OTHER" or regcat = "JOINT SERVICE" or regcat = "JOINT SERVICE*"
then do;
               IF MOD(ROW,2)=0 THEN PUT "font face='&fontface.'
size='2'> " REGCAT " </font>";
                  ELSE PUT "<font face='&fontface.' size='2'> " REGCAT "
</font>";
                end;
                else do;
                  IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.'
size='2'><a href=""" HREF +(-1) """ &target.> " REGCAT " </a></font>"; /** Shade row **/
                  ELSE PUT "font face='&fontface.' size='2'><a href=""" HREF +(-1)
""" &target.> " REGCAT " </a></font>";
                end;
            %end;
     %end;
         %else %do;
         %if &var1.=3 or &var1.=4 or &var1.=5 or &var1.=7 or &var1.=8 %then %do;
```

```
IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.'
size='2'> " REGCAT " </font>";
              ELSE PUT "<font face='&fontface.' size='2'> " REGCAT " </font>";
           %end;
           %else %do;
              if regcat = "NORTH" or regcat = "SOUTH" or regcat="WEST" or
                regcat = "OVERSEAS" or regcat="US MHS" then do;
              IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.'
size='2'> " REGCAT " </b></font>";
                 ELSE PUT "<b><font face='&fontface.' size='2'> " REGCAT "
</b></font>";
              end;
              else if regcat = "ARMY" or regcat = "NAVY" or regcat = "AIR FORCE" or
                 regcat = "OTHER" or regcat = "JOINT SERVICE" or regcat = "JOINT SERVICE*"
then do;
                IF MOD(ROW, 2) = 0 THEN PUT "<font face='&fontface.'
size='2'> " REGCAT " </font>";
                ELSE PUT "<font face='&fontface.' size='2'> " REGCAT "
</font>";
              end;
              else do;
                IF MOD(ROW,2)=0 THEN PUT "font face='&fontface.'
size='2'><a href=""" HREF +(-1) """ &target.> " REGCAT " </a></font>"; /** Shade row **/
                ELSE PUT "<font face='&fontface.' size='2'><a href=""" HREF +(-1)
""" &target.> " REGCAT " </a></font>";
              end;
           %end;
        %end;
        REGNIIM+1;
      END;
      /* 2000/11: begin xls code */
      /*____*/
      %if &outxls.=1 %then %do;
        FILE XLSDATA;
        IF REGION IN("Benchmark") THEN PUT REGCAT '09'x @@; /* no logic difference */
        ELSE DO;
         IF MOD(ROW, 2) = 0 THEN
                                 PUT REGCAT '09'x @@; /* just presentation difference
in htm */
                                  PUT REGCAT '09'x @@; /* keeping as is to preserve htm
         ELSE
code structure */
       END;
      /* 2000/11: end xls code */
      LREGION=REGION;
 END;
 /*** Column 2+ ***/
 /****************
 /*** Need to output different formats ****/
 /**********************************
 FILE "&FILEOUT1." MOD ;
                                 /* 2000/11: refer back to htm file */
 IF REGION IN("Benchmark") THEN DO;
    %if &prefix.=f %then %do;
     IF SCORE=. THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SCORE=.A THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE PUT "<b><font face='&fontface.'
color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
    %end;
    %else %do;
     IF SCORE=. THEN PUT "<b><font face='&fontface.'
color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
```

```
ELSE IF SCORE=.A THEN PUT "<b><font face='&fontface.'
color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE PUT "<b><font face='&fontface.' color=&blue.
size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
   %end;
 END;
 ELSE DO;
   IF SCORE=. THEN DO;
     PUT "<b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE IF SCORE=.A THEN DO;
      PUT "<b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   ELSE DO;
     IF SIG=1 THEN PUT "<b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=. THEN PUT "<b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=.A THEN PUT "<b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=-1 THEN PUT "<i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i>";
     ELSE PUT "<font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font>";
  END;
 END;
 /* 2000/11: begin xls code */
 /*____*/
 %if &outxls.=1 %then %do;
  FILE XLSDATA;
   IF REGION IN("Benchmark") THEN DO;
       IF SCORE=. THEN PUT "***" '09'x @@;
       ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
                       PUT SCORE '09'x @@;
       ELSE
   END;
   ELSE DO;
    IF SCORE=. THEN DO;
       PUT "***" '09'x @@;
    END:
    ELSE IF SCORE=.A THEN DO;
      PUT "NA" '09'x @@;
    END;
    ELSE DO;
        IF SIG=1 THEN
                    PUT SCORE '09'x @@;
        ELSE IF SIG=. THEN PUT "***" '09'x @@;
        ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
        ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
                       PUT SCORE '09'x @@;
       ELSE
    END;
   END;
 %end;
 /* 2000/11: end xls code */
 IF EOF THEN DO;
   FILE "&FILEOUT1." MOD ;
                                   /* 2000/11: refer back to htm file */
    PUT ""; /*** terminate last row ***/
    %BOTTOM_NOTES; /** Macro with bottom notes **/
    /* 2000/11: begin xls code */
```

```
%if &outxls.=1 %then %do;
        FILE XLSDATA;
        PUT; PUT;
        %if (&var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2) %then %do;
         PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through
&SRCYR2"; ***MJS 03/24/04 Changed hard-coded year to macro variable;
                                                                              /* MER 11/21/08
Changed "and" to "through" */
        %end;
        %else %do;
         PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04
Changed hard-coded year to macro variable;
          PUT "Indicates score significantly exceeds benchmark";
          PUT "Indicates score significantly falls short of benchmark";
          PUT "NA Indicates not applicable";
          PUT "*** Indicates suppressed due to small sample size";
        %if &var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2 %then %do;
           %if &var2.=0 %then %do;
             PUT "* For 2011, Walter Reed and Ft. Belvoir are included in North Joint Service
despite not being classified as such until 2012"; /*MER 11/22/12 Temp note for 2010/11*/
           %else %if &var2.=12 %then %do;
             PUT "* For 2011, Walter Reed and Ft. Belvoir are included in North Joint Service
despite not being classified as such until 2012"; /*MER 11/22/12 Temp note for 2010/11*/
            PUT "# For 2011, Walter Reed Natl Mil Med Cntr scores include NNMC Bethesda and
Walter Reed AMC which were consolidated in 2012"; /*MER 11/22/12 Temp note for 2010/11*/
           %end;
        %end;
     %end:
     /* 2000/11: end xls code */
     /*----*/
 END;
RIIN;
%end;
/*\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}} Single Regions \hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}\hat{\mathbf{U}}*/
/* This code is not applicable for the 2000 report cards */
/* since not enough data to display sub-region info. */
/* Will leave in code in case this changes */
%if &var2.^=0 AND &var1.^=0 %then %do;
DATA HTML4;
 SET HTML3 END=EOF;
 LENGTH LREGCAT $ 100;
 RETAIN LREGCAT;
  IF _N_=1 THEN DO;
    TREGCAT=" ";
    ROW=0;
 END;
  IF LREGCAT THEN DO;
                                           /*** Start new row ***/
        FILE "&FILEOUT1." MOD ;
        ROW+1:
        IF LREGCAT^=" " THEN PUT ""; /*** terminate previous row ***/
        IF REGCAT IN("Benchmark") THEN PUT "<b><font
face='&fontface.' size='2'>" REGCAT "</font></b>";
        ELSE IF SUBSTR(REGCAT,1,2) = "US" THEN PUT "<b><font
face='&fontface.' size='2'>" REGCAT "</font></b>";
        ELSE IF REGCAT NE "ARMY" AND REGCAT NE "NAVY" AND REGCAT NE "AIR FORCE" AND REGCAT NE
"OTHER" AND REGCAT NE "JOINT SERVICE" AND REGCAT NE "JOINT SERVICE*" AND
            UPCASE(SUBSTR(REGCAT,1,5)) NE "NORTH" AND UPCASE(SUBSTR(REGCAT,1,5)) NE "SOUTH" AND
```

```
UPCASE(SUBSTR(REGCAT,1,4)) NE "WEST" AND UPCASE(SUBSTR(REGCAT,1,8)) NE "OVERSEAS"
THEN DO;
          IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.'
size='2'><a href=""..\HTML\help.htm#MTFs"">" REGCAT " </a></font>"; /** Shade row **/
          ELSE PUT "<font face='&fontface.' size='2'><a
href=""..\HTML\help.htm#MTFs"">" REGCAT " </a></font>";
      END:
      ELSE DO;
         IF MOD(ROW,2)=0 THEN PUT "<font face='&fontface.' size='2'>"
REGCAT "</font>"; /** Shade row **/
         ELSE PUT "<font face='&fontface.' size='2'>" REGCAT "</font>";
      EMD:
      /* 2000/11: begin xls code */
      /*----*/
      %if &outxls.=1 %then %do;
       FILE XLSDATA;
       IF LREGCAT^=" " THEN PUT " ";
       IF REGCAT IN("Benchmark") THEN
                                   PUT REGCAT '09'x @@;
                                                          /* no logic difference
* /
       ELSE IF SUBSTR(REGCAT,1,5) = "CONUS" THEN PUT REGCAT '09'x @@;
                                                         /*** MAB 3/27/2005
Fixed error ***/
       ELSE IF MOD(ROW, 2) = 0 THEN
                                    PUT REGCAT '09'x @@;
                                                           /* just presentation
difference in htm */
       ELSE
                                   PUT REGCAT '09'x @@;
                                                          /* keeping as is to
preserve htm code structure */
      %end;
      /* 2000/11: end xls code */
      /*----*/
      LREGCAT=REGCAT;
 END;
 /**********************************
 /**** Need to output different formats ****/
 /***************
 FILE "&FILEOUT1." MOD ;
                              /* 2000/11: refer back to htm file */
 IF REGION IN("Benchmark") THEN DO;
     IF SCORE=. THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SCORE=.A THEN PUT "<b><font
face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE PUT "<b><font face='&fontface.'
color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
 END;
 ELSE DO;
   IF SCORE=. THEN DO;
      PUT "<b><font face='&fontface.' size='2'>***<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE IF SCORE=.A THEN DO;
     PUT "<b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b>";
   END;
   ELSE DO;
      IF SIG=1 THEN PUT "<b><font face='&fontface.' size='2'
color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b>";
      ELSE IF SIG=. THEN PUT "<b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b>";
     ELSE IF SIG=.A THEN PUT "<b><font face='&fontface.'
size='2'>NA<!CODE="+(-1)ORDERZ5."></font></b>";
     ELSE IF SIG=-1 THEN PUT "<i>>font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i>";
     ELSE PUT "<font face='&fontface.' size='2'>" SCORE 3.0
"<!CODE= " +(-1) ORDER Z5. "></font>";
  END;
 END;
```

```
/* 2000/11: begin xls code */
  /*----*/
  %if &outxls.=1 %then %do;
   FILE XLSDATA;
   IF REGION IN("Benchmark") THEN DO;
                         PUT "***" '09'x @@;
        IF SCORE=. THEN
        ELSE IF SCORE=.A THEN PUT "NA" '09'x @@;
                              PUT SCORE '09'x @@;
        ELSE
   END;
   ELSE DO;
     IF SCORE=. THEN DO;
        PUT "***" '09'x @@;
     END;
     ELSE IF SCORE=.A THEN DO;
        PUT "NA" '09'x @@;
     END:
     ELSE DO;
         IF SIG=1 THEN
                           PUT SCORE '09'x @@;
         ELSE IF SIG=. THEN PUT "***" '09'x @@;
         ELSE IF SIG=.A THEN PUT "NA" '09'x @@;
         ELSE IF SIG=-1 THEN PUT SCORE '09'x @@;
         ELSE
                            PUT SCORE '09'x @@;
     END;
   END;
  %end;
  /*____*/
  /* 2000/11: end xls code */
  /*____*/
 IF EOF THEN DO;
    FILE "&FILEOUT1." MOD ;
                                         /* 2000/11: refer back to htm file */
    PUT ""; /*** terminate last row ***/
    %BOTTOM_NOTES; /** Macro with bottom notes **/
    /*----*/
    /* 2000/11: begin xls code */
    /*----*/
    %if &outxls.=1 %then %do;
       FILE XLSDATA;
       PUT; PUT;
       %if (&var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2) %then %do;
        PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 through
&SRCYR2"; ***MJS 03/24/04 Changed hard-coded year to macro variable;
                                                                         /* MER 11/21/08
Changed "and" to "through" */
       %end;
       %else %do;
         PUT "Source: &SRCYR2 Health Care Survey of DOD Beneficiaries"; ***MJS 03/24/04
Changed hard-coded year to macro variable;
         PUT "Indicates score significantly exceeds benchmark";
         PUT "Indicates score significantly falls short of benchmark";
         PUT "NA Indicates not applicable";
         PUT "*** Indicates suppressed due to small sample size";
       %if &var3.=6 or &var3.=7 or &var3.=8 or &var3.=9 or &seppage.=2 %then %do;
          %if &var2.=0 %then %do;
            PUT "* For 2011, Walter Reed and Ft. Belvoir are included in North Joint Service
despite not being classified as such until 2012"; /*MER 11/22/12 Temp note for 2010/11*/
          %else %if &var2.=12 %then %do;
            PUT "* For 2011, Walter Reed and Ft. Belvoir are included in North Joint Service
despite not being classified as such until 2012"; /*MER 11/22/12 Temp note for 2010/11*/
           PUT "# For 2011, Walter Reed Natl Mil Med Cntr scores include NNMC Bethesda and
Walter Reed AMC which were consolidated in 2012"; /*MER 11/22/12 Temp note for 2010/11*/
          %end;
       %end;
    %end;
```

/*----*/

```
/* 2000/11: end xls code */
 END;
RUN;
%end;
/*************
/**** Print out footer info
/*************
DATA _NULL_;
   FILE "&FILEOUT1." MOD ;
   LENGTH HREF $250;
    /** Determine where back button should link to **/
   %if &var1.=0 %then %do;
      HREFBACK=COMPRESS("&prefix.9-0-0.htm");
   %end;
   %else %do;
     HREFBACK=COMPRESS("&prefix.&var1.-0-0.htm");
    /** MF Changes **/
   PUT "<t.r>";
   PUT " ";
   PUT "
            <center>";
   PUT "
                <a href='..\html\index.htm' &target.><img src=&home_but. border='0' alt='Return</pre>
to Main Page'></a>&htmlsp.&htmlsp.";
           /*** 7-17 MAB added JS code to go back ***/
   PUT "&goback.";
   PUT "
                 <noscript><a href=""" HREFBACK +(-1) """ &target.><img src=&back_but.</pre>
border='0' alt='Return to Top Level'></a></noscript>";
   PUT "
                 <a href='..\html\help.htm' &target.><img src=&help_but. border='0'</pre>
alt='Help'></a><br>";
   PUT "
                 <font face='Arial, Helvetica, Swiss, Geneva' size='2'><b>&grpmsg.<br>";
   PUT "
                 </b></font>";
   majgrp1=COMPRESS("&prefix.1-&var2.-&var3.-&var4.&q..htm");
   majgrp2=COMPRESS("&prefix.2-&var2.-&var3.-&var4.&q..htm");
   majgrp3=COMPRESS("&prefix.3-&var2.-&var3.-&var4.&q..htm");
                                                               ***MJS 05/04/03 Removed Civilian
   majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");
                                                               ***(majgrp3), and changed 4-8 to
   majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");
                                                               /* added purchased care MER
11/11/09 */
   majgrp6=COMPRESS("&prefix.6-&var2.-&var3.-&var4.&q..htm");
   majgrp7=COMPRESS("&prefix.7-&var2.-&var3.-&var4.&q..htm");
   majgrp8=COMPRESS("&prefix.8-&var2.-&var3.-&var4.&q..htm");
                                                               /**RSG - ADD IN MAJGRP 8**/
   majgrp9=COMPRESS("&prefix.9-&var2.-&var3.-&var4.&q..htm");
     /*** Certain major groups are not large enough to show ***/
     /*** catchment level detail. So if we are in html file ***/
     /*** which has this detail then don't link to a html ***/
     /*** file which doesn't exist
   %if &var1.^=0 %then %do;
     %if &var1.^=3 and &var1.^=4 and &var1.^=5 and &var1.^=7 and &var1.^=8 and &var2.^=0 %then
%do;
        PUT "<a href=""" MAJGRP1 +(-1) """ &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.&htmlsp.";
        PUT "<a href=""" MAJGRP2 +(-1) """ &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.&htmlsp.";
```

```
PUT "<a href=""" MAJGRP6 +(-1) """ &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
        PUT "<a href=""" MAJGRP9 +(-1) """ &target.><font face='&fontface.' size='2'>All
Users</font></a>";
     %end;
     %else %do;
       PUT "<a href=""" MAJGRP1 +(-1) """ &target.><font face='&fontface.' size='2'>Prime
Enrollees</font></a>&htmlsp.@htmlsp.";
       PUT "<a href=""" MAJGRP2 +(-1) """ &target.><font face='&fontface.' size='2'>Enrollees
with Military PCM</font></a>&htmlsp.%htmlsp.";
       PUT "<a href=""" MAJGRP3 +(-1) """ &target.><font face='&fontface.' size='2'>Enrollees
with Civilian PCM</font></a>&htmlsp.%i /*RSG 02/2005 added Civilian PCM*/
       PUT "<a href=""" MAJGRP4 +(-1) """ &target.><font face='&fontface.'
size='2'>Standard/Extra Users</font></a>&htmlsp.%htmlsp.";
       PUT "<a href=""" MAJGRP5 +(-1) """ &target.><font face='&fontface.' size='2'>Purchased
Care Users</font></a>&htmlsp.&htmlsp.";
       PUT "<br>";
       PUT "<a href=""" MAJGRP6 +(-1) """ &target.><font face='&fontface.' size='2'>Active
Duty</font></a>&htmlsp.&htmlsp.";
       PUT "<a href=""" MAJGRP7 +(-1) """ &target.><font face='&fontface.' size='2'>Active Duty
Dependents</font></a>&htmlsp.&htmlsp.";
       PUT "<a href=""" MAJGRP8 +(-1) """ &target.><font face='&fontface.' size='2'>Retirees and
Dependents</font></a>&htmlsp.&htmlsp.";
       PUT "<a href=""" MAJGRP9 +(-1) """ &target.><font face='&fontface.' size='2'>All
Users</font></a>";
     %end;
   %end;
   /*** link to printer friendly version moved C.Rankin 10/25/2001 ***/
   /*** If creating frames need link to printer friendly version of file ***/
  %if &prefix=f %then %do;
     HREFP=COMPRESS("p&var1.-&var2.-&var3.-&var4.&q..htm");
     PUT " <BR><font face='Arial,Helvetica,Swiss,Geneva' size='1'><a href='" HREFP "'
&target.><img src='&imgdir.\printer.gif' alt='Printer Friendly Page' border=0>Printer Friendly
Page</a></font>
  %end;
RIIN:
/*** Close HTML page ***/
DATA _NULL_;
 FILE "&FILEOUT1." MOD ;
 PUT "</center>";
 PUT "</body></html>";
RUN;
/*_____*/
/* 2000/12: begin xls color code */
/*----*/
%if &outxls.=1 %then %do;
 FILENAME CMDS DDE 'excel|system';
  /* Align 2 titles */
 DATA _NULL_;
    FILE CMDS;
     %if &var3 = 3 or &var3 = 6 %then %do;
        CELL=COMPRESS("[SELECT(""R1C1:R1C"||4||""")]"); PUT CELL;
        PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across columns **/
        CELL=COMPRESS("[SELECT(""R2C1:R2C"||4||""")]"); PUT CELL;
        PUT '[ALIGNMENT(3, False, 3,0, False,,,,True)]'; /** Merges titles across columns **/
     %end;
     %else %do;
```

```
CELL=COMPRESS("[SELECT(""R1C1:R1C"||&columns.||""")]"); PUT CELL;
        PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across columns **/
        CELL=COMPRESS("[SELECT(""R2C1:R2C"||&columns.||""")]"); PUT CELL;
        PUT '[ALIGNMENT(3, False, 3,0, False,,,True)]'; /** Merges titles across columns **/
    %end;
 RUN;
 DATA _NULL_;
   FILE CMDS;
   SET HTML4(DROP=ROW) END=EOF;
   RETAIN ROW COLUMN;
    /*** Need to initialize row and column pointers ***/
   IF _N_=1 THEN DO;
     ROW=6;
     COLUMN=1;
   END;
  COLUMN=COLUMN+1;
   IF COLUMN>&columns. THEN DO;
      ROW=ROW+1;
      COLUMN=2;
   END;
   CELL=COMPRESS("[SELECT(""R" | | ROW | | "C" | | COLUMN | | ":R" | | ROW | | "C" | | COLUMN | | """)]");
    /** Before color cell center data **/
   PUT '[ALIGNMENT(3, False, 3,0, False)]';
   IF REGION IN("Benchmark") OR MAJGRP IN("Benchmark") THEN PUT
'[FORMAT.FONT("Arial",10,True,False,False,False,9)]'; /*** BOLD & DARK RED ***/
   ELSE IF SCORE NOT IN(.,.A) THEN DO;
     IF SIG=1 THEN PUT '[FORMAT.FONT("Arial",10,True,False,False,False,10)]';
                                                                                      /*** BOLD
& GREEN ***/
     ELSE IF SIG=-1 THEN PUT '[FORMAT.FONT("Arial",10,False,True,False,False,3)]';
                                                                                      /*** RED
     ELSE PUT '[FORMAT.FONT("Arial",10,False,False,False,False,5)]'; /*** BLUE ***/
    /*** If last record then output footer ***/
   IF EOF THEN DO;
      ROW=ROW+3; COLUMN=1;
      CELL=COMPRESS("[SELECT(""R"||ROW||"C"||COLUMN||":R"||ROW||"C"||COLUMN||"""));
      PUT '[FORMAT.FONT("Arial",10,True,False,False,False,10)]';
                                                                         /*** BOLD & GREEN ***/
      ROW=ROW+1;
      CELL=COMPRESS("[SELECT(""R"||ROW||"C"||COLUMN||":R"||ROW||"C"||COLUMN||"""));
      PUT CELL;
      PUT '[FORMAT.FONT("Arial",10,False,True,False,False,3)]'; /*** RED ***/
   END;
 RUN;
 FILENAME CMDS DDE 'excel|system';
 DATA _NULL_;
   FILE CMDS;
   PUT '[SAVE()]';
   PUT '[CLOSE()]';
 RUN;
%end;
/*----*/
/* 2000/12: end xls color code */
```

```
%MEND MKHTML;
%LET PREFIX=p;
%LET OUTXLS=0;
%MKHTML(3,0,1,2,1);
%MKHTML(1,0,12,2,1);
%MKHTML(1,0,12,1,0);
%MKHTML(1,0,12,2,2);
%MKHTML(1,0,12,2,3);
%MKHTML(1,0,12,2,0);
**** Create macros to all MKHTML macro ****;
/*** Create 9 HTML pages (9 Majgrps / All Regions / All Benefits)***/
%MACRO DOALL1();
           %MKHTML(1,0,0,0,0);
           %MKHTML(2,0,0,0,0);
           %MKHTML(3,0,0,0,0);
           %MKHTML(4,0,0,0,0);
           %MKHTML(5,0,0,0,0);
           %MKHTML(6,0,0,0,0);
           %MKHTML(7,0,0,0,0);
           %MKHTML(8,0,0,0,0);
           %MKHTML(9,0,0,0,0);
%MEND DOALL1;
/*** Create 368 HTML pages (8 Majgrps / All Regions / 12 Benefits)***/
%MACRO DOALL2();
  %DO J=1 %TO 9;
     %DO K=1 %TO 11;
        %MKHTML(&J.,0,&K.,1,0);
        %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
           %IF &K. = 3 OR &K. = 10 %THEN %DO L= 0 %TO 4;
              %MKHTML(&J.,0,&K.,2,&L.);
           %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2; ***RSG
02/2005 - ADDED 12TH BENEFIT;
             %MKHTML(&J.,0,&K.,2,&L.);
           %END;
           %ELSE %IF &K. = 11 %THEN %DO L = 0 %TO 3;
             %MKHTML(&J.,0,&K.,2,&L.);
           %END;
        %END;
      %END;
  %END;
%MEND DOALL2;
/*** Need to populate new table for all majgrps ***/
/*** Create 736 HTML pages (All Majgrps / 16 Regions / 12 Benefits) ***/
%MACRO DOALL4(i=);
       %DO K = 1 %TO 11;
           /*** Call macro for 2nd page (except for ratings benefits) ***/
           DO J = 8 TO 12;
               %MKHTML(&I.,&J.,&K.,1,0);
               %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
                  %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
                       %MKHTML(&I.,&J.,&K.,2,&L.);
                  %END;
                  %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
/*** MAB Added 2/11/2005 ***/
                       %MKHTML(&I.,&J.,&K.,2,&L.);
                  %END;
                  %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
                       %MKHTML(&I.,&J.,&K.,2,&L.);
                  %END;
```

```
%end;
             %END;
             %DO J = 14 %TO 17;
                %MKHTML(&I.,&J.,&K.,1,0);
                %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
                    %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
                         %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                    %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
/*** MAB Added 2/11/2005 ***/
                        %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                    %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
                         %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                %end;
             %END;
             %DO J = 19 %TO 22;
                %MKHTML(&I.,&J.,&K.,1,0);
                %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
                    %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
                         %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                    <code>%ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;</code>
/*** MAB Added 2/11/2005 ***/
                        %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                    %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
                         %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                %end;
             %END;
             DO J = 24 TO 26;
                %MKHTML(&I.,&J.,&K.,1,0);
                %if &k.^=6 AND &k.^=7 AND &k.^=8 AND &k.^=9 %then %do;
                    %IF &K. = 3 OR &K. = 10 %THEN %DO L = 0 %TO 4;
                         %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                    %ELSE %IF &K. = 1 OR &K. = 2 OR &K. = 4 OR &K. = 5 %THEN %DO L = 0 %TO 2;
/*** MAB Added 2/11/2005 ***/
                         %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                    %ELSE %IF &K.=11 %THEN %DO L = 0 %TO 3;
                        %MKHTML(&I.,&J.,&K.,2,&L.);
                    %END;
                %end;
             %END;
    %END;
%MEND DOALL4;
 /*** Create 16 HTML pages (8 Majgrps / 16 Regions / All Benefits) ***/
%MACRO DOALL5(I=);
     %DO J=8 %TO 12;
           %MKHTML(&i.,&j.,0,0,0);
      %END;
      %DO J=14 %TO 17;
          %MKHTML(&i.,&j.,0,0,0);
      %END;
      %DO J=19 %TO 22;
           %MKHTML(&i.,&j.,0,0,0);
      %DO J=24 %TO 26;
          %MKHTML(&i.,&j.,0,0,0);
      %END;
%MEND DOALL5;
```

```
/*** Run macro to create Frame HTML files ***/
%LET PREFIX=f;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;
%DOALL4(I=1);
%DOALL4(I=2);
%DOALL4(I=6);
%DOALL4(I=9);
%DOALL5(I=1);
%DOALL5(I=2);
%DOALL5(I=6);
%DOALL5(I=9);
/*** Run macro to create Printer Friendly HTML files (non-frames) ***/
%LET PREFIX=p;
%LET OUTXLS=0;
%DOALL1;
%DOALL2;
%DOALL4(I=1);
%DOALL4(I=2);
%DOALL4(I=6);
%DOALL4(I=9);
%DOALL5(I=1);
%DOALL5(I=2);
%DOALL5(I=6);
%DOALL5(I=9);
/*** Run macro to create Excel files ONLY ***/
%LET PREFIX=p;
%LET OUTXLS=1;
%DOALL1;
%DOALL2;
%DOALL4(I=1);
%DOALL4(I=2);
%DOALL4(I=6);
%DOALL4(I=9);
%DOALL5(I=1);
%DOALL5(I=2);
%DOALL5(I=6);
%DOALL5(I=9);
%PUT "&number_html_files. HTML files created.";
```

APPENDIX H

SAS CODE FOR 2013 TRICARE CONSUMER WATCH QUARTERS I-III AND COMBINED ANNUAL

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

H.1.A ConsumerWatch\CONSUMERWATCH-CMACRO.INC - Produce numbers for annual Consumer Watch reports.

```
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-Cmacro.INC
* PURPOSE: To pull from Beneficiary Reports the numbers that go into the data
          sheet in Excel to produce graphs
          Catchment level only
* AUTHOR : NATALIE JUSTH
* DATE : 2/12/02
* UPDATED: 2/5/03
* UPDATED: 11/17/03
* UPDATED 03/15/2005 LUCY LU
          --REMOVE LIBNAME FORM THE PROGRAM
          --SUBSTITUDE ACTUAL YEAR VALUES BY MACRO YEAR VARIABLES
           --ADD SMOKING CESSATION RATE ON PREVENTIVE CARE TABLE
* UPDATED: 01/31/2006 LUCY LU FOR 2005 ANNUAL CATCHMENT
           --CHANGE 'CHOLESTEROL TESTING' TO 'PERCENT OF NORMAL WEIGHT'
* UPDATED: 04/07/2006 LUCY LU: ADD THE CODE TO COMPARE THE ANNUAL COMSUMER WATCH
          WITH REPORT CARDS IN SCORESAND SIGNIFICANCE.
* MODIFIED 11/24/09 BY LUCY LU
          1.START THIS YEAR, THE DATA DOES NOT INCLUDE THE VALUE OF
             'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
            RELATED CODE.
          2. CHANGE IN CLCULATION OF VARIABLE SCORE
* MODIFIED 7/23/2010 BY LUCY LU
          1. ADD MACRO TO MINIMIZE EXCEL WAITING, REDUCE PROGRAM
             RUNNING TIME
           2. ELIMINATE UNNECESSARY MACRO VARIABLE &VAL
 INPUT : ..\..\&YEAR.\PROGRAMS\LOADWEB\TREND_A.SAS7BDAT
* OUTPUT : INTO EXCEL SPREADSHEET
                              *********************************
OPTIONS NOXWAIT NOFMTERR /*MPRINT*/;
TITLE "Consumer Watch &YEAR. - Catchment";
%MACRO RUNCW (AREA=,
                       /*AREA=Catchment area
                       /*NAME=Name of Excel file being created for catchment area
             FOLDER=
                       /*FOLDER=Regional folder
/* Change parameter for each catchment area */
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  LENGTH FID RC START STOP TIME 8;
  FID = FOPEN('CMDS' , 'S');
  IF (FID LE 0) THEN DO;
     RC = SYSTEM('START EXCEL');
     START = DATETIME();
     STOP = START + 10;
     DO WHILE (FID LE 0);
        FID = FOPEN('CMDS' , 'S');
        TIME = DATETIME();
        IF (TIME GE STOP) THEN FID = 1;
     END;
  END;
  RC = FCLOSE(FID);
RUN;
*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;
%MACRO SETUP;
%GLOBAL OPENXLS SAVEXLS;
```

```
DATA _NULL_;
   SINGLE="'";
   DOUBLE='"';
LENGTH OPENXLS SAVEXLS $120;
  OPENXLS=SINGLE | | "[OPEN(" | DOUBLE | | "&PATH.\templateAnnual.XLSB" | DOUBLE | | ")]" | SINGLE;
  SAVEXLS=SINGLE | "[SAVE.AS("|DOUBLE||"&PATH.\&FOLDER.\&NAME.XLSB"|DOUBLE||")]"||SINGLE;
  CALL SYMPUT ("OPENXLS", TRIM(OPENXLS));
  CALL SYMPUT ("SAVEXLS", TRIM(SAVEXLS));
RIIN;
%MEND SETUP;
%SETUP;
DATA _NULL_;
  FILE CMDS;
  PUT &OPENXLS;
  X=SLEEP(2);
  PUT '[ERROR(FALSE)]';
  PUT &SAVEXLS;
  PUT '[app.minimize()]';
************************
* FIGURE 1: Health Care Rating
TITLE2 'Figure 1: Health Care Rating';
PROC FREQ DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT = 'Health Care'
    AND TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/NOPRINT OUT=FIG1_SC(DROP=COUNT PERCENT);
PROC FREQ DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT = 'Health Care'
    AND TIMEPD = "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/NOPRINT OUT=FIG1_BE(DROP=COUNT PERCENT);
DATA FIG1_SC FIG1_A(KEEP=SCORE TIMEPD);
  SET FIG1 SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG1_A;
     ELSE OUTPUT FIG1_SC;
RUN;
PROC SORT DATA=FIG1_SC;
  BY TIMEPD;
RUN;
PROC SORT DATA=FIG1_A;
  BY TIMEPD;
 /*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG1;
  SET FIG1_SC;
KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;
DATA FIG1_SC(DROP=ASCORE);
  MERGE FIG1_SC
        FIG1_A(RENAME=(SCORE=ASCORE));
  BY TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;
```

```
* /
DATA FIG1;
  SET FIG1_BE FIG1_SC;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
    ROW = 1;
    BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP2." THEN DO;
   ROW = 2;
     SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
    SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEAR." THEN DO;
  ROW =4 ;
    SCORE=BSCORE+SCORE;
  END;
  COL2 = SCORE / 100;
  COL3 = SIG;
RUN;
PROC SORT;
  BY ROW;
RUN;
*TITLE2 'FIGURE 1';
*PROC PRINT;
RUN;
*************************
* DDE LINK (EXCEL file has to be open )
FILENAME CMDS DDE "EXCEL|SYSTEM";
FILENAME TBL DDE "EXCEL RATINGS!R18C2:R21C3";
DATA _NULL_;
  SET FIG1;
  FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3;
RIIN:
************************
* FIGURE 2: Health Plan Rating
TITLE2 'Figure 2: Health Plan Rating';
PROC FREO NOPRINT DATA=TREND A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT = 'Health Plan'
    AND TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG2_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT = 'Health Plan'
    AND TIMEPD = "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG2_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG2_SC FIG2_A(KEEP=SCORE TIMEPD);
  SET FIG2_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG2_A;
    ELSE OUTPUT FIG2_SC;
RUN;
/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG2;
  SET FIG2_SC;
```

```
KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;
PROC SORT DATA=FIG2_SC;
  BY TIMEPD;
PROC SORT DATA=FIG2_A;
  BY TIMEPD;
RIIN;
DATA FIG2_SC(DROP=ASCORE);
  MERGE FIG2_SC
       FIG2_A(RENAME=(SCORE=ASCORE));
  BY TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;
DATA FIG2;
  SET FIG2_BE FIG2_SC;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
    ROW = 1;
    BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP2." THEN DO;
    ROW = 2;
     SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
     SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEAR." THEN DO;
    ROW = 4;
    SCORE=BSCORE+SCORE;
  END;
  COL2 = SCORE / 100;
  COL3 = SIG;
RUN;
PROC SORT;
  BY ROW;
RUN;
*TITLE2 'FIGURE 2';
*PROC PRINT;
RIIN;
* DDE LINK (EXCEL file has to be open )
******************************
FILENAME TBL DDE "EXCEL|RATINGS!R18C6:R21C7";
DATA _NULL_;
  SET FIG2;
  FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3;
*************************
* FIGURE 3: Personal Doctor
TITLE2 'Figure 3: Personal Doctor Rating';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT = 'Personal Doctor'
    AND TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG3_SC(DROP=COUNT PERCENT);
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
```

```
AND REGCAT = 'Benchmark'
    AND BENEFIT = 'Personal Doctor'
    AND TIMEPD = "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG3_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG3_SC FIG3_A(KEEP=SCORE TIMEPD);
  SET FIG3_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG3_A;
     ELSE OUTPUT FIG3_SC;
RUN;
 /*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG3;
  SET FIG3_SC;
KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;
PROC SORT DATA=FIG3_SC;
  BY TIMEPD;
PROC SORT DATA=FIG3_A;
 BY TIMEPD;
RUN;
DATA FIG3 SC(DROP=ASCORE);
  MERGE FIG3_SC
       FIG3_A(RENAME=(SCORE=ASCORE));
  BY TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;
* /
DATA FIG3;
  SET FIG3_BE FIG3_SC;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
     ROW = 1;
     BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP2." THEN DO;
     ROW = 2;
      SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
     SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEAR." THEN DO;
   ROW = 4;
     SCORE=BSCORE+SCORE;
  END;
  COL2 = SCORE / 100;
  COL3 = SIG;
RUN;
PROC SORT;
 BY ROW;
RUN;
*TITLE2 'FIGURE 3';
*PROC PRINT;
************************
* DDE LINK (EXCEL file has to be open )
*************************
FILENAME TBL DDE "EXCEL RATINGS!R18C10:R21C11";
DATA _NULL_;
  SET FIG3;
```

```
FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3;
RUN;
************************
* FIGURE 4: Specialist Rating
****************************
TITLE2 'Figure 4: Specialist Rating';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT = 'Specialty Care'
    AND TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG4_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT = 'Specialty Care'
    AND TIMEPD = "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG4_BE(DROP=COUNT PERCENT);
RIIN;
DATA FIG4_SC FIG4_A(KEEP=SCORE TIMEPD);
  SET FIG4 SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG4_A;
     ELSE OUTPUT FIG4_SC;
RUN;
 /*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG4;
  SET FIG4_SC;
KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;
PROC SORT DATA=FIG4_SC;
  BY TIMEPD;
RUN;
PROC SORT DATA=FIG4_A;
  BY TIMEPD;
RUN;
DATA FIG4_SC(DROP=ASCORE);
  MERGE FIG4_SC
       FIG4_A(RENAME=(SCORE=ASCORE));
  BY TIMEPD;
  SCORE=SCORE-ASCORE;
RUN;
* /
DATA FIG4;
  SET FIG4_BE FIG4_SC;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
     ROW = 1;
     BSCORE=SCORE;
  ELSE IF TIMEPD = "&YEARP2." THEN DO;
     ROW = 2;
      SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP1." THEN DO;
     ROW = 3;
     SCORE=BSCORE+SCORE;
  END;
  ELSE IF TIMEPD = "&YEAR." THEN DO;
    ROW = 4;
      SCORE=BSCORE+SCORE;
  END;
  COL2 = SCORE / 100;
  COL3 = SIG;
RUN;
```

```
PROC SORT;
  BY ROW;
RUN;
*TITLE2 'FIGURE 4';
*PROC PRINT;
RIIN:
***********************
* DDE LINK (EXCEL file has to be open )
************************
FILENAME TBL DDE "EXCEL RATINGS!R18C14:R21C15";
DATA _NULL_;
  SET FIG4;
  FILE TBL NOTAB LRECL=200;
  PUT COL2 '09'X COL3;
RUN;
*******************
* FIGURE 5: Access Composites
******************************
TITLE2 'Figure 5: Access Composites';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT IN ('Getting Needed Care', 'Getting Care Quickly')
    AND BENTYPE='Composite' & TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG5_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT IN ('Getting Needed Care','Getting Care Quickly')
    AND BENTYPE='Composite' & TIMEPD = "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG5_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG5_SC FIG5_A(KEEP=SCORE TIMEPD BENEFIT);
  SET FIG5 SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG5_A;
     ELSE OUTPUT FIG5_SC;
RUN;
/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG5;
  SET FIG5_SC;
KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;
PROC SORT DATA=FIG5_SC;
 BY BENEFIT TIMEPD;
RUN;
PROC SORT DATA=FIG5_A;
 BY BENEFIT TIMEPD;
RUN;
/*DATA FIG5_SC(DROP=ASCORE);
  MERGE FIG5_SC
       FIG5_A(RENAME=(SCORE=ASCORE));
  BY BENEFIT TIMEPD;
  SCORE=SCORE-ASCORE;
RUN; */
PROC SORT DATA=FIG5_BE;
  BY BENEFIT;
RUN;
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
    COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
    COL4(DROP=SCORE RENAME=(SCORE1=COL4))
    COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
```

```
COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
    COL7(kEEP=ROW SIG RENAME=(SIG=COL7));
  SET FIG5_BE FIG5_SC ; BY BENEFIT;
  RETAIN BSCORE;
  IF REGCAT = 'Benchmark' THEN DO;
     ROW = 1;
     BSCORE=SCORE;
     SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP2." THEN DO;
     ROW = 2;
      SCORE=BSCORE+SCORE;
     SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
      SCORE=BSCORE+SCORE;
     SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&YEAR." THEN DO;
     ROW = 4;
     SCORE=BSCORE+SCORE;
     SCORE1=SCORE;
  END;
  IF (BENEFIT = 'Getting Needed Care' AND REGCAT NE 'Benchmark') THEN OUTPUT COL2 COL6;
  IF (BENEFIT = 'Getting Needed Care' AND REGCAT = 'Benchmark') THEN OUTPUT COL3;
  IF (BENEFIT = 'Getting Care Quickly' AND REGCAT NE 'Benchmark') THEN OUTPUT COL4 COL7;
  IF (BENEFIT = 'Getting Care Quickly' AND REGCAT = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 04/07/2006*/
DATA FIG5A;
  MERGE COL2 COL6;
 BY ROW;
RIIN;
DATA FIG5B;
  MERGE COL4 COL7;
 BY ROW;
RUN;
DATA FIG5AB;
  SET FIG5A FIG5B;
 BY ROW;
RUN;
DATA FIG5;
  MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
  BY ROW;
RUN;
*TITLE2 'ACCESS COMPOSITES';
*PROC PRINT;
*************************
* DDE LINK (EXCEL file has to be open )
*************************
FILENAME TBL DDE "EXCEL COMPOSITES!R18C2:R21C2";
```

```
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  PUT COL2;
RUN;
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C3:R18C3";
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  PUT COL3;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C4:R21C4";
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  PUT COL4;
RIIN:
FILENAME TBL DDE "EXCEL COMPOSITES!R18C5:R18C5";
DATA NULL;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  PUT COL5;
RUN;
FILENAME TBL DDE "EXCEL COMPOSITES!R23C2:R26C4";
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  PUT COL6 '09'X '09'X COL7;
RIIN;
************************
* FIGURE 6: Office Composites
TITLE2 'Figure 6: Office Composites';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT IN ('How Well Doctors Communicate')
    AND BENTYPE="Composite" & TIMEPD
   IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG6_SC(DROP=COUNT PERCENT);
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT IN ('How Well Doctors Communicate')
    AND BENTYPE="Composite" & TIMEPD = "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG6_BE(DROP=COUNT PERCENT);
DATA FIG6_SC FIG6_A(KEEP=SCORE TIMEPD BENEFIT);
  SET FIG6_SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG6_A;
     ELSE OUTPUT FIG6_SC;
RUN;
 /*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG6;
  SET FIG6_SC;
KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RUN;
PROC SORT DATA=FIG6_SC;
  BY BENEFIT TIMEPD;
```

```
RUN;
PROC SORT DATA=FIG6 A;
  BY BENEFIT TIMEPD;
/*DATA FIG6_SC(DROP=ASCORE);
   MERGE FIG6_SC
         FIG6_A(RENAME=(SCORE=ASCORE));
   BY BENEFIT TIMEPD;
  SCORE=SCORE-ASCORE;
RUN; */
PROC SORT DATA=FIG6_BE;
   BY BENEFIT;
DATA COL4(DROP=SCORE RENAME=(SCORE1=COL4))
     COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
     COL7(kEEP=ROW SIG RENAME=(SIG=COL7));
   SET FIG6_BE FIG6_SC ; BY BENEFIT;
   RETAIN BSCORE;
   IF REGCAT = 'Benchmark' THEN DO;
      ROW = 1;
      BSCORE=SCORE;
      SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&YEARP2." THEN DO;
      ROW = 2;
       SCORE=BSCORE+SCORE;
      SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&YEARP1." THEN DO;
      ROW = 3;
       SCORE=BSCORE+SCORE;
      SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&YEAR." THEN DO;
     ROW = 4;
       SCORE=BSCORE+SCORE;
      SCORE1=SCORE;
   END;
   IF (BENEFIT = 'How Well Doctors Communicate' AND REGCAT NE 'Benchmark') THEN OUTPUT COL4 COL7; IF (BENEFIT = 'How Well Doctors Communicate' AND REGCAT = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 04/07/2006*/
DATA FIG6B;
  MERGE COL4 COL7;
 BY ROW;
RUN;
DATA FIG6AB;
  SET FIG6B;
  BY ROW;
RUN;
DATA FIG6;
  MERGE COL4(KEEP=ROW COL4) COL5 COL7;
RUN;
*TITLE2 'OFFICE COMPOSITES';
*PROC PRINT;
RUN;
```

```
*****
* DDE LINK (EXCEL file has to be open )
************************
FILENAME TBL DDE "EXCEL COMPOSITES!R18C8:R21C8";
DATA _NULL_;
  SET FIG6;
  FILE TBL NOTAB LRECL=200;
  PUT COL4;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C9:R18C9";
DATA _NULL_;
  SET FIG6;
  FILE TBL NOTAB LRECL=200;
  PUT COL5;
RUN;
FILENAME TBL DDE "EXCEL COMPOSITES!R23C8:R26C8";
DATA NULL;
  SET FIG6;
  FILE TBL NOTAB LRECL=200;
  PUT COL7;
********************
* FIGURE 7: Claims/Service Composites
*****************************
TITLE2 'Figure 7: Claims/Service Composites';
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT in ("&AREA", "Benchmark")
    AND BENEFIT IN ('Customer Service', 'Claims Processing')
    AND BENTYPE = "Composite" & TIMEPD IN ("&YEARP2.", "&YEARP1.", "&YEAR.");
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE*SIG/ OUT=FIG7_SC(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND BENEFIT IN ('Customer Service', 'Claims Processing')
    AND BENTYPE = "Composite" & TIMEPD= "&YEAR.";
  TABLES MAJGRP*REGCAT*BENEFIT*TIMEPD*SCORE/ OUT=FIG7_BE(DROP=COUNT PERCENT);
RUN;
DATA FIG7_SC FIG7_A(KEEP=SCORE TIMEPD BENEFIT);
  SET FIG7 SC;
  IF REGCAT='Benchmark' THEN OUTPUT FIG7_A;
     ELSE OUTPUT FIG7_SC;
/*add the code here to preserve above dataset for later comparision, LLu 4/6/2006*/
DATA CFIG7;
  SET FIG7_SC;
KEEP MAJGRP REGCAT BENEFIT TIMEPD SCORE SIG;
RIIN;
PROC SORT DATA=FIG7_SC;
 BY BENEFIT TIMEPD;
RUN;
PROC SORT DATA=FIG7_A;
 BY BENEFIT TIMEPD;
RUN;
/*DATA FIG7_SC(DROP=ASCORE);
  MERGE FIG7_SC
       FIG7_A(RENAME=(SCORE=ASCORE));
  BY BENEFIT TIMEPD;
  SCORE=SCORE-ASCORE;
```

```
RUN; */
PROC SORT DATA=FIG7 BE;
  BY BENEFIT;
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
     COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
     COL4(DROP=SCORE RENAME=(SCORE1=COL4))
     COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
     COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
    COL7(kEEP=ROW SIG RENAME=(SIG=COL7));
   SET FIG7_BE FIG7_SC ; BY BENEFIT;
   RETAIN BSCORE;
   IF REGCAT = 'Benchmark' THEN DO;
     ROW = 1;
     BSCORE=SCORE;
     SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&YEARP2." THEN DO;
     ROW = 2;
     SCORE=BSCORE+SCORE;
     SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&YEARP1." THEN DO;
    ROW = 3;
    * SCORE=BSCORE+SCORE;
     SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&YEAR." THEN DO;
     ROW = 4;
    * SCORE=BSCORE+SCORE;
     SCORE1=SCORE;
   END;
  IF (BENEFIT = 'Customer Service' AND REGCAT NE 'Benchmark') THEN OUTPUT COL2 COL6;
   IF (BENEFIT = 'Customer Service' AND REGCAT = 'Benchmark') THEN OUTPUT COL3;
   IF (BENEFIT = 'Claims Processing' AND REGCAT NE 'Benchmark') THEN OUTPUT COL4 COL7;
   IF (BENEFIT = 'Claims Processing' AND REGCAT = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 04/07/2006*/
DATA FIG7A;
  MERGE COL2 COL6;
 BY ROW;
RUN;
DATA FIG7B;
  MERGE COL4 COL7;
 BY ROW;
RUN;
DATA FIG7AB;
  SET FIG7A FIG7B;
 BY ROW;
RUN;
  MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
*TITLE2 'CLAIMS/SERVICE COMPOSITES';
*PROC PRINT;
RUN;
```

```
* DDE LINK (EXCEL file has to be open )
FILENAME TBL DDE "EXCEL COMPOSITES!R18C14:R21C14";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  PUT COL2;
RIIN;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C15:R18C15";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  PUT COL3;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C16:R21C16";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  PUT COL4;
RUN;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C17:R18C17";
DATA NULL;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  PUT COL5;
FILENAME TBL DDE "EXCEL COMPOSITES!R23C14:R26C16";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  PUT COL6 '09'X '09'X COL7;
RIIN:
************************
* TABLE 1: Preventive Care
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = "&AREA"
    AND TIMEPD = "&YEAR"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                   'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit');
  TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*SIG/ OUT=TAB1_03(DROP=COUNT PERCENT);
  TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*N_OBS/ OUT=TAB2_03(DROP=COUNT PERCENT);
RIIN;
PROC FREQ NOPRINT DATA=TREND_A;
  WHERE MAJGRP = 'Prime Enrollees'
    AND REGCAT = 'Benchmark'
    AND TIMEPD = "&YEAR"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                  'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit');
    TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*SIG/ OUT=TAB3_03(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
   WHERE MAJGRP = 'Prime Enrollees'
     AND REGCAT = "&AREA"
     AND TIMEPD = "&YEARP1"
     AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
     AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
```

```
'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit');
    TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*N_OBS*N_WGT*SIG/ OUT=TAB1_02(DROP=COUNT
PERCENT);
RUN;
PROC FREQ NOPRINT DATA=TREND_A;
   WHERE MAJGRP = 'Prime Enrollees'
     AND REGCAT = "&AREA"
     AND TIMEPD = "&YEARP2"
     AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
     AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care'
                    'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit');
   TABLES MAJGRP*REGCAT*BENEFIT*BENTYPE*SEMEAN*SCORE*N_OBS*N_WGT*SIG/ OUT=TAB1_01(DROP=COUNT
PERCENT);
RIIN;
DATA TAB303;
   SET TAB3_03;
   IF REGCAT = 'Benchmark' THEN DO;
      ROW=5;
      IF BENTYPE='Mammography' THEN COL2=SCORE;
         ELSE IF BENTYPE='Pap Smear' THEN COL3=SCORE;
         ELSE IF BENTYPE='Hypertension' THEN COL4=SCORE;
         ELSE IF BENTYPE='Prenatal Care' THEN COL5=SCORE;
         ELSE IF BENTYPE='Percent Not Obese' THEN COL6=SCORE;
         ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=SCORE;
         ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=SCORE;
   END;
PROC SORT;
   BY ROW;
RIIN:
DATA TAB203;
   SET TAB2_03;
   ROW=4;
   IF MAJGRP='Prime Enrollees';
   IF BENTYPE='Mammography' THEN COL2=N_OBS;
      ELSE IF BENTYPE='Pap Smear' THEN COL3=N_OBS;
      ELSE IF BENTYPE='Hypertension' THEN COL4=N_OBS;
      ELSE IF BENTYPE='Prenatal Care' THEN COL5=N_OBS;
      ELSE IF BENTYPE='Percent Not Obese' THEN COL6=N_OBS;
      ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=N_OBS;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=N_OBS;
PROC SORT;
   BY ROW;
RIIN:
DATA TAB103;
   SET TAB1_03;
   ROW=3;
   IF BENTYPE='Mammography' THEN DO;
      COL2=SCORE;
      COL9=SIG;
   END;
   ELSE IF BENTYPE='Pap Smear' THEN DO;
      COL3=SCORE;
      COL10=SIG;
   ELSE IF BENTYPE='Hypertension' THEN DO;
      COL4=SCORE;
      COL11=SIG;
   END;
   ELSE IF BENTYPE='Prenatal Care' THEN DO;
      COL5=SCORE;
      COL12=SIG;
   END;
   ELSE IF BENTYPE='Percent Not Obese' THEN DO;
      COL6=SCORE;
      COL13=SIG;
   END;
   ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
      COL7=SCORE;
      COL14=SIG;
   ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
      COL8=SCORE;
```

```
COL15=SIG;
   END;
   PROC SORT;
   BY ROW;
RUN;
DATA TAB101;
   SET TAB1_01;
   ROW=1;
   IF BENTYPE='Mammography' THEN DO;
      IF (N_WGT < 200 \text{ OR } N_OBS < 30) THEN COL2 = .;
      ELSE DO;
         COL2=SCORE;
         COL9=SIG;
      END;
   END;
   ELSE IF BENTYPE='Pap Smear' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL3=.;
      ELSE DO;
         COL3=SCORE;
         COL10=SIG;
      END;
   END;
   ELSE IF BENTYPE='Hypertension' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL4=.;
      ELSE DO;
         COL4=SCORE;
         COL11=SIG;
      END;
   END;
   ELSE IF BENTYPE='Prenatal Care' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL5=.;</pre>
      ELSE DO;
         COL5=SCORE;
         COL12=SIG;
      END;
   END;
   ELSE IF BENTYPE='Percent Not Obese' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL6=.;</pre>
      ELSE DO;
         COL6=SCORE;
         COL13=SIG;
      END;
   END;
   ELSE IF BENTYPE='Non-Smoking Rate' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL7=.;</pre>
      ELSE DO;
         COL7=SCORE;
         COL14=SIG;
      END;
   END;
   ELSE IF BENTYPE='Counselled To Quit' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL8=.;</pre>
      ELSE DO;
         COL8=SCORE;
         COL15=SIG;
      END;
    END;
PROC SORT;
   BY ROW;
RUN;
DATA TAB102;
   SET TAB1_02;
   ROW=2;
   IF BENTYPE='Mammography' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL2=.;
      ELSE DO;
         COL2=SCORE;
         COL9=SIG;
      END;
   END;
```

```
ELSE IF BENTYPE='Pap Smear' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL3=.;
      ELSE DO;
        COL3=SCORE;
         COL10=SIG;
      END;
   END;
   ELSE IF BENTYPE='Hypertension' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL4=.;
      ELSE DO;
        COL4=SCORE;
         COL11=SIG;
      END;
   END;
   ELSE IF BENTYPE='Prenatal Care' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL5=.;
      ELSE DO;
        COL5=SCORE;
         COL12=SIG;
      END;
   END;
   ELSE IF BENTYPE='Percent Not Obese' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL6=.;
      ELSE DO;
        COL6=SCORE;
         COL13=SIG;
      END;
   END;
   ELSE IF BENTYPE='Non-Smoking Rate' THEN DO;
      IF (N_WGT<200 OR N_OBS<30) THEN COL7=.;
      ELSE DO;
        COL7=SCORE;
         COL14=SIG;
     END;
   END;
   ELSE IF BENTYPE='Counselled To Quit' THEN DO;
     IF (N_WGT<200 OR N_OBS<30) THEN COL8=.;
      ELSE DO;
        COL8=SCORE;
         COL15=SIG;
      END;
  END;
PROC SORT;
  BY ROW;
DATA TAB1;
  MERGE TAB101 TAB102 TAB103 TAB203 TAB303;
  BY ROW;
DATA COL2(DROP=COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL3(DROP=COL2 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL4(DROP=COL2 COL3 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL5(DROP=COL2 COL3 COL4 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL6(DROP=COL2 COL3 COL4 COL5 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL7(DROP=COL2 COL3 COL4 COL5 COL6 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL8(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL9(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL10 COL11 COL12 COL13 COL14 COL15)
     COL10(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL11 COL12 COL13 COL14 COL15)
     COL11(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL12 COL13 COL14 COL15)
     COL12(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL13 COL14 COL15)
     COL13(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL14 COL15)
     COL14(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL15)
     COL15(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14)
   SET TAB1;
   IF COL2 NE . THEN OUTPUT COL2;
   IF COL3 NE . THEN OUTPUT COL3;
   IF COL4 NE . THEN OUTPUT COL4;
   IF COL5 NE . THEN OUTPUT COL5;
   IF COL6 NE . THEN OUTPUT COL6;
   IF COL7 NE . THEN OUTPUT COL7;
```

```
IF COL8 NE . THEN OUTPUT COL8;
  IF COL9 NE . THEN OUTPUT COL9;
  IF COL10 NE . THEN OUTPUT COL10;
  IF COL11 NE . THEN OUTPUT COL11;
  IF COL12 NE . THEN OUTPUT COL12;
  IF COL13 NE . THEN OUTPUT COL13; IF COL14 NE . THEN OUTPUT COL14;
  IF COL15 NE . THEN OUTPUT COL15;
RIIN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
PROC SORT DATA=COL8; BY ROW; RUN;
PROC SORT DATA=COL9; BY ROW; RUN;
PROC SORT DATA=COL10; BY ROW; RUN;
PROC SORT DATA=COL11; BY ROW; RUN;
PROC SORT DATA=COL12; BY ROW; RUN;
PROC SORT DATA=COL13; BY ROW; RUN;
PROC SORT DATA=COL14; BY ROW; RUN;
PROC SORT DATA=COL15; BY ROW; RUN;
DATA ALLROWS;
  LENGTH ROW 8.;
  DO ROW = 1 TO 5;
    OUTPUT;
  END:
RUN;
PROC SORT DATA=ALLROWS; BY ROW; RUN;
DATA TABLE1;
  MERGE COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11
       COL12 COL13 COL14 COL15 ALLROWS;
  BY ROW;
RUN;
************************
* DDE LINK (EXCEL file has to be open )
FILENAME TBL DDE "EXCEL TABLES!R4C9:R8C22";
DATA _NULL_;
  SET TABLE1;
  FILE TBL NOTAB LRECL=200;
  IF ROW=5 THEN DO;
  PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X '-' '09'X COL9 '09'X
COL10
      '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
  ELSE DO;
  PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X COL8 '09'X COL9 '09'X
COL10
      '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  FND;
RUN;
/*Run Excel macro signif, May 9 2006, LLU*/
options noxsync;
*-- Specify XL filename ;
*%let excelf = &NAME..XLS ;
*-- Specify XL macro name ;
%let macron = signif ;
```

```
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
 FILE CMDS;
 DDECommand = '[Run("' || "&macron" || '",0)]';
 put DDEcommand ;
RUN;
*FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[CLOSE]';
RUN;
*******************
      COMPARE SCORES AND SIG B/T CONSUMER WATCH AND REPORT CARDS.
      SET 0.015 DIFFERENCE AS THRESHOLD.
     LUCY LU 04/04/2006
PROC SORT DATA=FIG1(DROP=SCORE);
                                     *FROM CONSUMER WATCH;
BY BENEFIT TIMEPD REGCAT;
PROC SORT DATA=FIG2(DROP=SCORE);
BY BENEFIT TIMEPD REGCAT;
PROC SORT DATA=FIG3(DROP=SCORE);
BY BENEFIT TIMEPD REGCAT;
PROC SORT DATA=FIG4(DROP=SCORE);
BY BENEFIT TIMEPD REGCAT;
PROC SORT DATA=FIG5AB OUT=FIG5;
BY BENEFIT TIMEPD REGCAT;
PROC SORT DATA=FIG6AB OUT=FIG6;
BY BENEFIT TIMEPD REGCAT;
PROC SORT DATA=FIG7AB OUT=FIG7;
BY BENEFIT TIMEPD REGCAT;
RIIN;
%MACRO COMPARE(I=, TITL=);
PROC SORT DATA=CFIG&I;
                                   *FROM REPROT CARDS;
BY BENEFIT TIMEPD REGCAT;
RUN;
DATA COMBFIG&I;
 MERGE CFIG&I.(IN=F1) FIG&I(IN=F2);
BY BENEFIT TIMEPD REGCAT;
IF F1 AND F2;
FIG = &I;
IF FIG <=4 THEN DO;
  SCORE2=COL2*100;
  SIG2=COL3;
ELSE IF FIG >4 THEN DO;
```

```
IF COL2 >= 0 THEN SCORE2=COL2;
  ELSE IF COL4 >0 THEN SCORE2=COL4;
  IF COL6 >= .Z THEN SIG2=COL6;
  ELSE IF COL7>=.Z THEN SIG2=COL7;
END;
   SCOREDIF=SCORE2-SCORE;
   SIGDIF=SIG2-SIG;
IF ABS(SCOREDIF)>.015 OR SIGDIF>0 THEN FLAG=1;
ELSE FLAG=0;
KEEP BENEFIT TIMEPD REGCAT SCORE SIG SCORE2 SIG2 SCOREDIF SIGDIF FLAG;
FLAG="DIFF IN SCORES >0.015 OR/AND DIFF IN SIG >0"
SCORE="SCORES FROM CONUS"
SCORE2="SCORES FROM CONSUMER WATCH"
SIG="SIG FROM CONUS"
SIG2="SIG FROM CONSUMER WATCH"
TITLE " ";
TITLE3 "&YEAR. CATCHMENT CONSUMER WATCH, &AREA ";
PROC PRINT L NOOBS;
TITLE4 "Compare &TITL.";
RUN;
%MEND COMPARE;
%COMPARE(I=1, TITL=Health Care Rating);
%COMPARE(I=2, TITL=Health Plan Rating);
%COMPARE(I=3, TITL=Personal Provider Rating);
%COMPARE(I=4, TITL=Specialist Rating);
%COMPARE(I=5, TITL=Access composites);
%COMPARE(I=6, TITL=Office composites);
%COMPARE(I=7, TITL=Claims/Service composites);
%MEND RUNCW;
```

H.1.B ConsumerWatch\CONSUMERWATCH-C.SAS - Run annual MTF TRICARE Consumer Watch reports.

```
************************
* PROJECT: 8860-420
* PROGRAM: CONSUMERWATCH-C.SAS
* PURPOSE: Run Catchment Consumer Watch
* AUTHOR : NATALIE JUSTH
* DATE
       : 2/12/02
* UPDATED: 2/5/03
* UPDATED: 11/17/03
* UPDATED: 03/17/05 BY LUCY LU.
* UPDATED: 01/02/06 BY LUCY LU.
* UPDATED: 11/22/06 BY LUCY LU.
* UPDATED: 11/16/07 BY LUCY LU.
* MODIFIED: 11/23/2010 BY LUCY LU. WITH IMPROVED PROGRAMMING, WE
         COMBINED ALL REGIONAL PROGRAMS INTO A SINGLE RUN.
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 NOCENTER SOURCE2 NOFMTERR SPOOL;
/* TIME PERIOD MACROS */
%LET YEAR = 2013;
%LET YEARP1 = 2012;
%LET YEARP2 = 2011;
%LET PATH = L:\2013\Programs\Consumerwatch;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND A;
  SET INT.TREND_A(RENAME=(REGCAT=XREGCAT));
REGCAT=COMPRESS(XREGCAT,"'");
DROP XREGCAT;
RUN;
%INCLUDE "CONSUMERWATCH-CMACRO.INC";
/*** MACRO TO RUN CATCHMENT LEVEL REPORTS BY REGION ****/
%MACRO RUNBYREG (REG=,
                        /*Region as it appears in TREND_A */
                FOLDER= /*Regional folder name
               );
  PROC FREQ DATA=TREND_A;
     TABLES REGION*REGCAT / LIST MISSING OUT=TEMP;
     WHERE (REGION=&REG AND REGCAT NE &REG) OR REGION='USA MHS';
  RIIN:
  DATA TEMP;
     SET TEMP;
     /* DO NOT PRODUCE CONSUMER WATCH REPORTS FOR OUT OF CATCHMENT AREAS */
     IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;
  RUN;
  DATA _NULL_;
     SET TEMP END=FINISHED;
     LENGTH CMPRS $39;
```

```
LENGTH NUM $4;
      CMPRS=COMPRESS(REGCAT)||".xls";
     NUM=COMPRESS(PUT(_N_,4.));
      CALL SYMPUT("REGCAT" | | NUM, REGCAT);
     CALL SYMPUT("CMPRS" | NUM, CMPRS);
     IF FINISHED THEN DO;
        CALL SYMPUT("N",_N_);
     END;
   RUN;
   %MACRO PROCESS;
     %DO I=1 %TO &N;
        %RUNCW(AREA=&&REGCAT&I,NAME=&&CMPRS&I,FOLDER=&FOLDER);
   %MEND PROCESS;
   %PROCESS;
%MEND RUNBYREG;
%RUNBYREG(REG="North Army", FOLDER=North);
%RUNBYREG(REG="USA MHS",FOLDER=USAMHS);
%RUNBYREG(REG="North Air Force",FOLDER=North);
%RUNBYREG(REG="North Navy",FOLDER=North);
%RUNBYREG(REG="North Other",FOLDER=North);
%RUNBYREG(REG="North Joint Service",FOLDER=North);
%RUNBYREG(REG="South Air Force",FOLDER=South);
%RUNBYREG(REG="South Army",FOLDER=South);
%RUNBYREG(REG="South Navy", FOLDER=South);
%RUNBYREG(REG="South Other",FOLDER=South);
%RUNBYREG(REG="West Air Force",FOLDER=West);
%RUNBYREG(REG="West Army",FOLDER=West);
%RUNBYREG(REG="West Navy", FOLDER=West);
%RUNBYREG(REG="West Other",FOLDER=West);
%RUNBYREG(REG="Overseas Pacific",FOLDER=Overseas);
%RUNBYREG(REG="Overseas Europe",FOLDER=Overseas);
%RUNBYREG(REG="Overseas Latin America",FOLDER=Overseas);
```

H.2.A ConsumerWatch\LISTOFMTF-NORTH.SAS - Produce the list of MTF to run automated consumer watch report in Word-North.

```
************************
* PROJECT: 6663-420
* PROGRAM: ListOfMTF-xxxxx.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE
        : 11/30/09
* NOTE : Run listOfMTF-xxxxx.Sas first to copy the list of MTF in .lst file.
OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMTERR SPOOL ;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
%LET REG=("North Air Force", "North Army", "North Navy", "North Other", "North Joint Service");
%LET FOLDER=North;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
  SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);
  REGCAT=COMPRESS(XREGCAT, "'");
CMPRS=COMPRESS(REGCAT) | | ".xlsb";
CMPRS2=COMPRESS(REGCAT);
IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;
LENGTH MTFLIST $200;
MTFLIST='%RUNWD'||'('||'AREA='||TRIM(LEFT(REGCAT))||','||'NAME='
          TRIM(LEFT(CMPRS))||','||'NAME2='||TRIM(LEFT(CMPRS2))||','||'FOLDER='
          |"&FOLDER"||')'||';';
IF (REGION in &REG AND REGCAT not in &REG) THEN OUTPUT;
RUN;
PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;
TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;
```

H.2.B ConsumerWatch\LISTOFMTF-OVERSEAS.SAS - Produce the list of MTF to run automated consumer watch report in Word-Overseas.

```
*************************
* PROJECT: 6663-420
* PROGRAM: ListOfMTF.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE
        : 11/30/09
* NOTE : Run listOfMTF-South.Sas first to copy the list of MTF in .lst file.
OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMTERR SPOOL ;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
%LET REG=("Overseas Europe", "Overseas Pacific");
%LET FOLDER=Overseas;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
  SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);
  REGCAT=COMPRESS(XREGCAT,"'");
CMPRS=COMPRESS(REGCAT) | | ".xls";
CMPRS2=COMPRESS(REGCAT);
IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;
LENGTH MTFLIST $200;
MTFLIST='%RUNWD'||'('||'AREA='||TRIM(LEFT(REGCAT))||','||'NAME='
          |TRIM(LEFT(CMPRS))||','||'NAME2='||TRIM(LEFT(CMPRS2))||','||'FOLDER='
|"&FOLDER"||')'||';';
IF (REGION in &REG AND REGCAT not in &REG) THEN OUTPUT;
RUN;
PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;
TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;
```

H.2.C ConsumerWatch\LISTOFMTF-SOUTH.SAS - Produce the list of MTF to run automated consumer watch report in Word-South.

```
************************
* PROJECT: 6663-420
* PROGRAM: ListOfMTF.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE : 11/30/09
OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMTERR SPOOL ;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
%LET REG="South Air Force", "South Army", "South Navy", "South Other";
%LET FOLDER=South;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
  SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);
  REGCAT=COMPRESS(XREGCAT,"'");
CMPRS=COMPRESS(REGCAT)||".xls";
CMPRS2=COMPRESS(REGCAT);
**RUNWD(AREA=&&REGCAT&I,NAME=&&CMPRS&I,NAME2=&&CMPRS2&I,FOLDER=&FOLDER);
IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;
LENGTH MTFLIST $400;
MTFLIST='%RUNWD'||'('||'AREA='||TRIM(LEFT(REGCAT))||','||'NAME='
||TRIM(LEFT(CMPRS))||','||'NAME2='||TRIM(LEFT(CMPRS2))||','||'FOLDER='
         |"&FOLDER"||')'||';';
IF (REGION in (&REG) AND REGCAT NOT in (&REG)) THEN OUTPUT;
RUN;
PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;
TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;
```

H.2.D ConsumerWatch\LISTOFMTF-WEST.SAS - Produce the list of MTF to run automated consumer watch report in Word-West.

```
*************************
* PROJECT: 6663-420
* PROGRAM: ListOfMTF-xxxxx.SAS
* PURPOSE: Produce the list of MTF to run automated consumer watch report in Word
* AUTHOR : Lucy Lu
* DATE
        : 11/30/09
* NOTE : Run listOfMTF-xxxxx.Sas first to copy the list of MTF in .lst file.
OPTIONS PS=120 LS=256 NOCENTER /*MPRINT*/ NOFMTERR SPOOL ;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
%LET REG=("West Air Force", "West Army", "West Navy", "West Other");
%LET FOLDER=West;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
DATA TREND_A;
  SET INT.TREND_A(RENAME=(REGCAT=XREGCAT) KEEP=REGCAT REGION);
  REGCAT=COMPRESS(XREGCAT, "'");
CMPRS=COMPRESS(REGCAT)||".xls";
CMPRS2=COMPRESS(REGCAT);
IF SUBSTR(REGCAT,1,16)="Out of Catchment" THEN DELETE;
LENGTH MTFLIST $200;
MTFLIST='%RUNWD'||'('||'AREA='||TRIM(LEFT(REGCAT))||','||'NAME='
         | | TRIM(LEFT(CMPRS)) | | ',' | 'NAME2=' | | TRIM(LEFT(CMPRS2)) | | ',' | | 'FOLDER=' | | "&FOLDER" | | ')' | | ';';
IF (REGION in &REG AND REGCAT not in &REG) THEN OUTPUT;
RIIN;
PROC SORT DATA=TREND_A(KEEP=MTFLIST) OUT=MTFLIST NODUPKEY;
BY MTFLIST; RUN;
TITLE "AREA = &FOLDER";
PROC PRINT DATA=MTFLIST NOOBS;
RUN;
```

H.3.A ConsumerWatch\CONSUMERWATCH-CMACRO-WORD.INC - Produce numbers for annual Consumer Watch reports.

```
************************
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-Cmarco-WORD.INC
* AUTHOR : LUCY LU
 PURPOSE: Automate the copy and paste process, update the year, region,
          response rate and sample size for annual catchment Consumer
          Watch report.
* DATE : 10/29/2009
* OUTPUT : WORD DOCUMENTS
OPTIONS NOXWAIT SPOOL NOXSYNC;
%MACRO RUNWD(AREA=,NAME=,NAME2=,FOLDER=);
*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME
Wait until Excel ready;
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  LENGTH FID RC START STOP TIME 8;
  FID = FOPEN('CMDS' , 'S');
  IF (FID LE 0) THEN DO;
     RC = SYSTEM('START EXCEL');
     START = DATETIME();
     STOP = START + 10;
     DO WHILE (FID LE 0);
        FID = FOPEN('CMDS' , 'S');
        TIME = DATETIME();
        IF (TIME GE STOP) THEN FID = 1;
     END;
  END;
  RC = FCLOSE(FID);
RUN;
%MACRO SETUP;
  DATA TEST _NULL_;
  SINGLE="'";
  DOUBLE='"';
  LENGTH OPENXLS OPENWRD SAVEWRD $120;
 *11/28/2010, temporary fix for xls.xlsb problem to meet the dealine. Need
  perm fix in Excel pmg;
  OPENXLS=SINGLE||"[OPEN("||DOUBLE||"&PATH.\&FOLDER.\&NAME2..xls.xlsb"||DOUBLE||")]"||SINGLE;
OPENWRD=SINGLE||"[FileOpen.Name="||DOUBLE||"&PATH.\templateAnnual.doc"||DOUBLE||"]"||SINGLE;
SAVEWRD=SINGLE||"[FileSaveAs.Name="||DOUBLE||"&PATH.\&FOLDER.\&NAME2..DOC"||DOUBLE||"]"||SINGLE;
  CALL SYMPUT ("OPENXLS", TRIM(OPENXLS));
  CALL SYMPUT ("OPENWRD", TRIM(OPENWRD));
  CALL SYMPUT ("SAVEWRD", TRIM(SAVEWRD));
RIIN;
%MEND SETUP;
%SETUP;
DATA _NULL_;
FILE CMDS;
PUT &OPENXLS;
X=SLEEP(2);
PUT '[app.minimize()]';
```

```
RUN;
*7/23/2010 LLU, Wait until Word ready;
FILENAME CMNDS DDE "WINWORD | SYSTEM";
DATA _NULL_;
 LENGTH FID RC START STOP TIME 8;
 FID=FOPEN('CMNDS','S');
 IF (FID LE 0) THEN DO;
   RC=SYSTEM('START WINWORD');
   START=DATETIME();
   STOP=START+10;
    DO WHILE (FID LE 0);
     FID=FOPEN('CMNDS','S');
     TIME=DATETIME();
     IF (TIME GE STOP) THEN FID=1;
      END;
   END;
 RC=FCLOSE(FID);
RUN;
DATA _NULL_;
 FILE CMNDS;
  PUT &OPENWRD;
 X=SLEEP(2);
 PUT &SAVEWRD;
 PUT '[APPMINIMIZE]';
RUN;
%MACRO COPYIT;
%DO I=1 %TO 8;
   %IF &I NE 7 %THEN %DO;
      %LET WDMACRO=NEWPASTE&I;
      %LET EXMACRO=COPY&I;
      FILENAME CMDS DDE "EXCEL SYSTEM";
      DATA _NULL_;
        FILE CMDS;
      X=SLEEP(3);
      RUN;
      DATA _NULL_;
      FILE CMDS;
      DDECommand = '[Run("' || "&exmacro" || '",0)]';
      PUT DDEcommand ;
      RUN;
      FILENAME CMDS CLEAR;
      FILENAME CMNDS DDE 'WINWORD SYSTEM';
      DATA _NULL_;
      X=SLEEP(3);
      RUN;
      DATA _NULL_;
      FILE CMNDS;
      put '[ToolsMacro .Name = "' "&wdmacro" '", .Run]';
      RUN;
      FILENAME CMNDS CLEAR;
      RUN;
   %END;
%END;
%MEND COPYIT;
```

```
%COPYIT;
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[QUIT]';
RUN; */
*READ THE SAMPLE SIZE AND RESPONSE RATE IN .OUT FILES
AND CREATE MACRO VARIABLES for Word document;
%MACRO RATE1 (DAT);
  DATA &DAT;
      INFILE "&RATEPATH.\&DAT..OUT" LRECL=9999 RECFM=V;
      INPUT LINEIN $100 @; DROP LINEIN;
      IF _N_ GE 7 THEN DO;
         INPUT
            @001 DOMAIN $CHAR40.
            @141 FRR_UNWT 4.3
            @147 POP
                         $CHAR7.;
          OUTPUT;
     END;
 RUN;
*MS 2007 doesnt take comma7 format. This is to hard code the comma into the text;
DATA &DAT;
  SET &DAT;
LENGTH POP_UNWT $10;
  POP1=SUBSTR(RIGHT(POP),1,1);
   POP2=SUBSTR(RIGHT(POP),2,3);
   POP3=SUBSTR(RIGHT(POP),5,3);
  POP_UNWT=CATX(',',POP1,POP2,POP3);
RUN;
%MEND RATE1;
%RATE1(TABLE02A); /*for USA MHS*/
                  /*for catchment area*/
%RATE1(XCATCH);
DATA ALLRATE;
  SET TABLE02A
     XCATCH
   DOMAIN=UPCASE(COMPRESS(DOMAIN, "' "));
   IF DOMAIN='' THEN DOMAIN="USAMHS";
   FRR_UNWT=FRR_UNWT*100;
 *PUT POP_UNWT= FRR_UNWT=;
IF DOMAIN=UPCASE("&NAME2") THEN OUTPUT;
RUN;
%LET FORMAT=FORMAT1;
%LET MARK1=MTF1;
%LET MARK2=size;
%LET MARK3=rate;
%LET MARK4=MTF2;
%LET MARK5=YourSay;
%LET MARK6=MTF3;
DATA _NULL_;
   SET ALLRATE;
```

```
CALL SYMPUT ("TEXT1", "&AREA");
CALL SYMPUT ("TEXT2", COMPRESS(POP_UNWT));
CALL SYMPUT ("TEXT3", COMPRESS(FRR_UNWT));
CALL SYMPUT ("TEXT4", "&AREA");
CALL SYMPUT ("TEXT5", "&YOURSAY");
CALL SYMPUT ("TEXT6", "&AREA");
RUN;
FILENAME CMNDS DDE "WINWORD SYSTEM";
DATA _NULL_;
   FILE CMNDS;
   *X=SLEEP(2);
   PUT '[AppMinimize]';
RUN;
DATA _NULL_;
 FILE CMNDS;
 *X=SLEEP(.2);
 put '[EditGoto.Destination="MTF1"]';
 put '[FormatFont.Font="Arial",.Points="20"]';
 PUT "&TEXT1";
RUN;
DATA _NULL_;
 FILE CMNDS;
 *X=SLEEP(.2);
 put '[EditGoto.Destination="SIZE"]';
 put '[FormatFont.Font="Arial",.Points="8"]';
 PUT "&TEXT2";
RUN;
DATA _NULL_;
 FILE CMNDS;
 *X=SLEEP(.2);
 put '[EditGoto.Destination="RATE"]';
 put '[FormatFont.Font="Arial",.Points="8"]';
 PUT "&TEXT3";
RUN;
DATA _NULL_;
 FILE CMNDS;
 *X=SLEEP(.2);
 put '[EditGoto.Destination="MTF2"]';
 put '[FormatFont.Font="Arial",.Points="8"]';
 PUT "&TEXT4";
RUN;
DATA _NULL_;
 FILE CMNDS;
 *X=SLEEP(.2);
 put '[EditGoto.Destination="YourSay"]';
 put '[FormatFont.Font="Times New Roman",.Points="11"]';
 PUT "&TEXT5";
RUN;
DATA _NULL_;
 FILE CMNDS;
 *X=SLEEP(.2);
 put '[EditGoto.Destination="MTF3"]';
 put '[FormatFont.Font="Arial",.Points="16"]';
 PUT "&TEXT6";
RUN;
\slash\hspace{-0.05cm} The Triplet doeasn't work for MS 2007/SAS 9. Comment out here;
%MACRO DOWORD;
%DO I= 1 %TO 6;
                     *LLU 2/15/08. Problem with Banner in Word. No change in banner this time;
FILENAME CMNDS DDE "WINWORD | &PATH. \&FOLDER. \doc! &&MARK&I." NOTAB;
```

```
DATA _NULL_;
FILE CMNDS;
PUT "&&TEXT&I.";
FILENAME CMNDS CLEAR;
%END;
%MEND;
%DOWORD;
FILENAME CMNDS DDE 'WINWORD SYSTEM';
DATA _NULL_;
FILE CMNDS;
PUT '[ToolsMacro .Name = "' "&FORMAT" '", .Run]';
*/
*copy and paste figure 7--must do after changing subtitle on page 2;
%LET WDMACRO7=NEWPASTE7;
%LET EXMACRO7=COPY7;
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
   FILE CMDS;
X=SLEEP(3);
RUN;
DATA _NULL_;
 FILE CMDS;
 DDECommand = '[Run("' || "&exmacro7" || '",0)]' ;
 PUT DDEcommand ;
FILENAME CMDS CLEAR;
FILENAME CMNDS DDE 'WINWORD SYSTEM';
DATA _NULL_;
 FILE CMNDS;
put '[ToolsMacro .Name = "' "&wdmacro7" '", .Run]';
RUN;
FILENAME CMNDS CLEAR;
RUN;
DATA _NULL_;
X=SLEEP(.2);
RUN;
*savs as pdf;
%LET CMACRO=SaveAspdf;
FILENAME CMNDS DDE 'WINWORD SYSTEM';
DATA _NULL_;
FILE CMNDS;
PUT '[ToolsMacro .Name = "' "&CMACRO" '", .Run]';
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
```

```
FILE CMDS;
  *PUT '[SAVE]'; *no save for Excel;
  PUT '[CLOSE(FALSE)]';
  PUT '[QUIT]';
RUN;

/*The following code is reserved for future use;
FILENAME CMNDS DDE 'WINWORD|SYSTEM';

DATA _NULL_;
  FILE CMNDS;

PUT '[fileSave] ';
  PUT '[fileClose 2] ';
RUN;*/

%MEND;
```

H.3.B ConsumerWatch\CONSUMERWATCH-WORD-CNORTH.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-North.

```
PROJECT: 6663-420
PROGRAM: consumerwatch-word-CNorth.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR : Lucy Lu
      : 11/30/09
     : This is the second step to automnate the Consumer Watch report.
NOTE

    step 1--run listOfMTF-xxxx.sas

        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
*****************
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 MPRINT NOCENTER NOFMTERR SPOOL;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
/**************
/* TIME PERIOD MACROS */
/**************
          = 2013;
%LET YEAR
%LET YEARP1 = 2012;
%LET YEARP2 = 2011;
%LET YOURSAY= MTF;
%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
%INCLUDE "CONSUMERWATCH-CMACRO-WORD.INC";
%RUNWD(AREA=375th Med Grp-Scott,NAME=375thMedGrp-Scott.xlsb,NAME2=375thMedGrp-
Scott, FOLDER=North);
%RUNWD(AREA=633rd Med Grp Langley-Eustis,NAME=633rdMedGrpLangley-
Eustis.xlsb,NAME2=633rdMedGrpLangley-Eustis,FOLDER=North);
%RUNWD(AREA=66th Med Grp-Hanscom,NAME=66thMedGrp-Hanscom.xlsb,NAME2=66thMedGrp-
Hanscom, FOLDER=North);
%RUNWD(AREA=779th Med Grp-Andrews, NAME=779thMedGrp-Andrews.xlsb,NAME2=779thMedGrp-
Andrews, FOLDER=North);
%RUNWD(AREA=88th Med Grp-Wright-Patterson, NAME=88thMedGrp-Wright-Patterson.xlsb, NAME2=88thMedGrp-
Wright-Patterson, FOLDER=North);
%RUNWD(AREA=Blanchfield ACH-Ft. Campbell,NAME=BlanchfieldACH-
Ft.Campbell.xlsb,NAME2=BlanchfieldACH-Ft.Campbell,FOLDER=North);
%RUNWD(AREA=Ft Belvoir Community Hosp-FBCH, NAME=FtBelvoirCommunityHosp-
FBCH.xlsb,NAME2=FtBelvoirCommunityHosp-FBCH,FOLDER=North);
%RUNWD(AREA=Ireland ACH-Ft. Knox,NAME=IrelandACH-Ft.Knox.xlsb,NAME2=IrelandACH-
Ft.Knox,FOLDER=North);
%RUNWD(AREA=Kenner AHC-Ft. Lee,NAME=KennerAHC-Ft.Lee.xlsb,NAME2=KennerAHC-Ft.Lee,FOLDER=North);
%RUNWD(AREA=Kimbrough Amb Car Cen-Ft Meade, NAME=KimbroughAmbCarCen-
FtMeade.xlsb,NAME2=KimbroughAmbCarCen-FtMeade,FOLDER=North);
%RUNWD(AREA=McDonald AHC-Ft. Eustis,NAME=McDonaldAHC-Ft.Eustis.xlsb,NAME2=McDonaldAHC-
Ft.Eustis,FOLDER=North);
%RUNWD(AREA=NBHC Little Creek, NAME=NBHCLittleCreek.xlsb, NAME2=NBHCLittleCreek, FOLDER=North);
%RUNWD(AREA=NBHC Navsta
Sewells, NAME=NBHCNavstaSewells.xlsb, NAME2=NBHCNavstaSewells, FOLDER=North);
%RUNWD(AREA=NBHC Oceana,NAME=NBHCOceana.xlsb,NAME2=NBHCOceana,FOLDER=North);
%RUNWD(AREA=NH Camp Lejeune,NAME=NHCampLejeune.xlsb,NAME2=NHCampLejeune,FOLDER=North);
%RUNWD(AREA=NHC Annapolis,NAME=NHCAnnapolis.xlsb,NAME2=NHCAnnapolis,FOLDER=North);
%RUNWD(AREA=NHC Cherry Point, NAME=NHCCherryPoint.xlsb, NAME2=NHCCherryPoint, FOLDER=North);
%RUNWD(AREA=NHC Patuxent River,NAME=NHCPatuxentRiver.xlsb,NAME2=NHCPatuxentRiver,FOLDER=North);
%RUNWD(AREA=NHC Quantico,NAME=NHCQuantico.xlsb,NAME2=NHCQuantico,FOLDER=North);
%RUNWD(AREA=NMC Portsmouth,NAME=NMCPortsmouth.xlsb,NAME2=NMCPortsmouth,FOLDER=North);
```

```
%RUNWD(AREA=Naval Hlth Clinic New
England,NAME=NavalHlthClinicNewEngland.xlsb,NAME2=NavalHlthClinicNewEngland,FOLDER=North);
%RUNWD(AREA=Walter Reed Natl Mil Med
Cntr,NAME=WalterReedNatlMilMedCntr.xlsb,NAME2=WalterReedNatlMilMedCntr,FOLDER=North);
%RUNWD(AREA=Womack AMC-Ft. Bragg,NAME=WomackAMC-Ft.Bragg.xlsb,NAME2=WomackAMC-Ft.Bragg,FOLDER=North);
/*--dont need to run for pdf report--;
%RUNWD(AREA=North Region-Air force,NAME=NorthRegion-Airforce.xlsb,NAME2=NorthRegion-Airforce,FOLDER=North);
%RUNWD(AREA=North Region-Other,NAME=NorthRegion-Other.xlsb,NAME2=NorthRegion-Other,FOLDER=North);
```

H.3.C ConsumerWatch\CONSUMERWATCH-WORD-COVERSEAS.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-Overseas.

```
PROJECT: 6663-420
PROGRAM: consumerwatch-word-Coverseas.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR : Lucy Lu
      : 11/30/09
     : This is the second step to automnate the Consumer Watch report.
NOTE

    step 1--run listOfMTF-xxxx.sas

        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
*****************
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 MPRINT NOCENTER NOFMTERR SPOOL;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
/* TIME PERIOD MACROS */
/******************/
          = 2013;
%LET YEAR
%LET YEARP1 = 2012;
%LET YEARP2 = 2011;
%LET YOURSAY= MTF;
%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
%INCLUDE "consumerwatch-Cmacro-word.inc";
%RUNWD(AREA=18th Med Grp-Kadena AB,NAME=18thMedGrp-KadenaAB.xls,NAME2=18thMedGrp-
KadenaAB, FOLDER=Overseas);
%RUNWD(AREA=374th Med Grp-Yokota AB,NAME=374thMedGrp-YokotaAB.xls,NAME2=374thMedGrp-
YokotaAB, FOLDER=Overseas);
%RUNWD(AREA=48th Med Grp-Lakenheath,NAME=48thMedGrp-Lakenheath.xls,NAME2=48thMedGrp-
Lakenheath.FOLDER=Overseas);
%RUNWD(AREA=51st Med Grp-Osan AB, NAME=51stMedGrp-OsanAB.xls, NAME2=51stMedGrp-
OsanAB, FOLDER=Overseas);
%RUNWD(AREA=52nd Med Group-Spangdahlem,NAME=52ndMedGroup-Spangdahlem.xls,NAME2=52ndMedGroup-
Spangdahlem,FOLDER=Overseas);
%RUNWD(AREA=86th Medical Group-Ramstein,NAME=86thMedicalGroup-
Ramstein.xls,NAME2=86thMedicalGroup-Ramstein,FOLDER=Overseas);
%RUNWD(AREA=Bavaria Meddac,NAME=BavariaMeddac.xls,NAME2=BavariaMeddac,FOLDER=Overseas);
%RUNWD(AREA=Landstuhl Regional
Medcen, NAME=LandstuhlRegionalMedcen.xls, NAME2=LandstuhlRegionalMedcen, FOLDER=Overseas);
%RUNWD(AREA=NH Guam-Agana,NAME=NHGuam-Agana.xls,NAME2=NHGuam-Agana,FOLDER=Overseas);
%RUNWD(AREA=NH Okinawa,NAME=NHOkinawa.xls,NAME2=NHOkinawa,FOLDER=Overseas);
%RUNWD(AREA=NH Yokosuka,NAME=NHYokosuka.xls,NAME2=NHYokosuka,FOLDER=Overseas);
/*--dont need to run for pdf report--;
%RUNWD(AREA=Europe-Air force,NAME=Europe-Airforce.xls,NAME2=Europe-Airforce,FOLDER=Overseas);
%RUNWD(AREA=Europe-Navy,NAME=Europe-Navy.xls,NAME2=Europe-Navy,FOLDER=Overseas);
```

H.3.D ConsumerWatch\CONSUMERWATCH-WORD-CSOUTH.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-South.

```
PROJECT: 6663-420
PROGRAM: consumerwatch-word-Coverseas.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR : Lucy Lu
      : 11/30/09
     : This is the second step to automnate the Consumer Watch report.
NOTE

    step 1--run listOfMTF-xxxx.sas

        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
*****************
OPTIONS PS=63 LS=200 COMPRESS=NO ERRORS=2 MPRINT NOCENTER NOFMTERR SPOOL;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
/* TIME PERIOD MACROS */
/******************/
          = 2013;
%LET YEAR
%LET YEARP1 = 2012;
%LET YEARP2 = 2011;
%LET YOURSAY= MTF;
%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
%INCLUDE "CONSUMERWATCH-CMACRO-WORD.INC";
%RUNWD(AREA=14th Med Grp-Columbus,NAME=14thMedGrp-Columbus.xls,NAME2=14thMedGrp-
Columbus, FOLDER=South);
%RUNWD(AREA=17th Med Grp-Goodfellow,NAME=17thMedGrp-Goodfellow.xls,NAME2=17thMedGrp-
Goodfellow,FOLDER=South);
%RUNWD(AREA=19th Medical Group-Little Rock,NAME=19thMedicalGroup-
LittleRock.xls,NAME2=19thMedicalGroup-LittleRock,FOLDER=South);
%RUNWD(AREA=1st Spec Ops Med Grp-Hurlburt,NAME=1stSpecOpsMedGrp-
Hurlburt.xls,NAME2=1stSpecOpsMedGrp-Hurlburt,FOLDER=South);
%RUNWD(AREA=20th Med Grp-Shaw,NAME=20thMedGrp-Shaw.xls,NAME2=20thMedGrp-Shaw,FOLDER=South);
%RUNWD(AREA=2nd Med Grp-Barksdale,NAME=2ndMedGrp-Barksdale.xls,NAME2=2ndMedGrp-
Barksdale, FOLDER=South);
%RUNWD(AREA=325th Med Grp-Tyndall,NAME=325thMedGrp-Tyndall.xls,NAME2=325thMedGrp-
Tyndall, FOLDER=South);
%RUNWD(AREA=359th Med Grp-Randolph,NAME=359thMedGrp-Randolph.xls,NAME2=359thMedGrp-
Randolph,FOLDER=South);
%RUNWD(AREA=42nd Medical Group-Maxwell,NAME=42ndMedicalGroup-Maxwell.xls,NAME2=42ndMedicalGroup-
Maxwell,FOLDER=South);
%RUNWD(AREA=45th Med Grp-Patrick,NAME=45thMedGrp-Patrick.xls,NAME2=45thMedGrp-
Patrick, FOLDER=South);
%RUNWD(AREA=59th Med Wing-Lackland,NAME=59thMedWing-Lackland.xls,NAME2=59thMedWing-
Lackland, FOLDER=South);
%RUNWD(AREA=6th Med Grp-MacDill,NAME=6thMedGrp-MacDill.xls,NAME2=6thMedGrp-MacDill,FOLDER=South);
%RUNWD(AREA=72nd Med Grp-Tinker,NAME=72ndMedGrp-Tinker.xls,NAME2=72ndMedGrp-Tinker,FOLDER=South);
%RUNWD(AREA=78th Med Grp-Robins,NAME=78thMedGrp-Robins.xls,NAME2=78thMedGrp-Robins,FOLDER=South);
%RUNWD(AREA=7th Med Grp-Dyess,NAME=7thMedGrp-Dyess.xls,NAME2=7thMedGrp-Dyess,FOLDER=South);
%RUNWD(AREA=81st Med Grp-Keesler,NAME=81stMedGrp-Keesler.xls,NAME2=81stMedGrp-
Keesler, FOLDER=South);
%RUNWD(AREA=82nd Med Grp-Sheppard,NAME=82ndMedGrp-Sheppard.xls,NAME2=82ndMedGrp-
Sheppard, FOLDER=South);
%RUNWD(AREA=96th Med Grp-Eglin,NAME=96thMedGrp-Eglin.xls,NAME2=96thMedGrp-Eglin,FOLDER=South);
%RUNWD(AREA=Bayne-Jones ACH-Ft. Polk,NAME=Bayne-JonesACH-Ft.Polk.xls,NAME2=Bayne-JonesACH-
Ft.Polk,FOLDER=South);
```

```
%RUNWD(AREA=Brooke AMC-Ft. Sam Houston, NAME=BrookeAMC-Ft.SamHouston.xls, NAME2=BrookeAMC-
Ft.SamHouston,FOLDER=South);
%RUNWD(AREA=Darnall ACH-Ft. Hood,NAME=DarnallACH-Ft.Hood.xls,NAME2=DarnallACH-
Ft. Hood, FOLDER=South);
%RUNWD(AREA=Eisenhower AMC-Ft. Gordon,NAME=EisenhowerAMC-Ft.Gordon.xls,NAME2=EisenhowerAMC-
Ft.Gordon,FOLDER=South);
%RUNWD(AREA=Fox AHC-Redstone Arsenal,NAME=FoxAHC-RedstoneArsenal.xls,NAME2=FoxAHC-
RedstoneArsenal,FOLDER=South);
%RUNWD(AREA=Lyster AHC-Ft. Rucker,NAME=LysterAHC-Ft.Rucker.xls,NAME2=LysterAHC-
Ft.Rucker,FOLDER=South);
%RUNWD(AREA=Moncrief ACH-Ft. Jackson, NAME=MoncriefACH-Ft.Jackson.xls, NAME2=MoncriefACH-
Ft.Jackson,FOLDER=South);
%RUNWD(AREA=NBHC Mayport,NAME=NBHCMayport.xls,NAME2=NBHCMayport,FOLDER=South);
%RUNWD(AREA=NH Beaufort,NAME=NHBeaufort.xls,NAME2=NHBeaufort,FOLDER=South);
%RUNWD(AREA=NH Jacksonville,NAME=NHJacksonville.xls,NAME2=NHJacksonville,FOLDER=South);
%RUNWD(AREA=NH Pensacola,NAME=NHPensacola.xls,NAME2=NHPensacola,FOLDER=South);
%RUNWD(AREA=NHC Corpus Christi,NAME=NHCCorpusChristi.xls,NAME2=NHCCorpusChristi,FOLDER=South);
%RUNWD(AREA=Naval Health Clinic
Charleston, NAME=NavalHealthClinicCharleston.xls, NAME2=NavalHealthClinicCharleston, FOLDER=South);
%RUNWD(AREA=Reynolds ACH-Ft. Sill,NAME=ReynoldsACH-Ft.Sill.xls,NAME2=ReynoldsACH-
Ft.Sill,FOLDER=South);
/*--dont need to run for pdf report--;
%RUNWD(AREA=South Region-Air force, NAME=SouthRegion-Airforce.xls, NAME2=SouthRegion-
Airforce, FOLDER=South);
```

H.3.E ConsumerWatch\CONSUMERWATCH-WORD-CWEST.SAS - Run annual automated word MTF TRICARE Consumer Watch reports-West.

```
PROJECT: 6663-420
PROGRAM: consumerwatch-word-Coverseas.sas
PURPOSE: Automatet the Consumer Watch Report
        Only be able to automate one Word product at a time, multiple file-open
        and File-save causes SAS to lock up with JAWs screen reader unless
        fixing the problem by downloading "Hot Fix" in SAS institute website.
AUTHOR : Lucy Lu
      : 11/30/09
     : This is the second step to automnate the Consumer Watch report.
NOTE

    step 1--run listOfMTF-xxxx.sas

        2. Step 2--copy the list of MTF in listOfMTF.lst file and run this macro.
************
OPTIONS PS=63 LS=200 ERRORS=2 MPRINT NOCENTER NOFMTERR SPOOL;
LIBNAME LIBRARY '...\..\Data\fmtlib';
LIBNAME INT '..\loadweb';
/* TIME PERIOD MACROS */
/******************/
          = 2013;
%LET YEAR
%LET YEARP1 = 2012;
%LET YEARP2 = 2011;
%LET YOURSAY= MTF;
%LET PATH=L:\&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Response_Rate\xcatch;
/*LLU 03/17/2005, REMOVE APOSTROPHE FROM VARIABLE REGCAT FOR EXCEL NAMING*/
%INCLUDE "CONSUMERWATCH-CMACRO-WORD.INC";
%RUNWD(AREA=10th Med Group-USAF Academy CO, NAME=10thMedGroup-
USAFAcademyCO.xls,NAME2=10thMedGroup-USAFAcademyCO,FOLDER=West);
%RUNWD(AREA=21st Med Grp-Peterson, NAME=21stMedGrp-Peterson.xls, NAME2=21stMedGrp-
Peterson, FOLDER=West);
%RUNWD(AREA=30th Med Grp-Vandenberg,NAME=30thMedGrp-Vandenberg.xls,NAME2=30thMedGrp-
Vandenberg,FOLDER=West);
%RUNWD(AREA=341st Med Grp-Malmstrom,NAME=341stMedGrp-Malmstrom.xls,NAME2=341stMedGrp-
Malmstrom, FOLDER=West);
%RUNWD(AREA=355th Med Grp-Davis Monthan, NAME=355thMedGrp-DavisMonthan.xls, NAME2=355thMedGrp-
DavisMonthan, FOLDER=West);
%RUNWD(AREA=366th Med Grp-Mountain Home,NAME=366thMedGrp-MountainHome.xls,NAME2=366thMedGrp-
MountainHome, FOLDER=West);
%RUNWD(AREA=377th Med Grp-Kirtland,NAME=377thMedGrp-Kirtland.xls,NAME2=377thMedGrp-
Kirtland,FOLDER=West);
%RUNWD(AREA=3rd Med Grp-Elmendorf,NAME=3rdMedGrp-Elmendorf.xls,NAME2=3rdMedGrp-
Elmendorf,FOLDER=West);
%RUNWD(AREA=509th Med Grp-Whiteman,NAME=509thMedGrp-Whiteman.xls,NAME2=509thMedGrp-
Whiteman, FOLDER=West);
%RUNWD(AREA=55th Med Grp-Offutt,NAME=55thMedGrp-Offutt.xls,NAME2=55thMedGrp-Offutt,FOLDER=West);
%RUNWD(AREA=56th Med Grp-Luke,NAME=56thMedGrp-Luke.xls,NAME2=56thMedGrp-Luke,FOLDER=West);
%RUNWD(AREA=5th Med Grp-Minot,NAME=5thMedGrp-Minot.xls,NAME2=5thMedGrp-Minot,FOLDER=West);
%RUNWD(AREA=60th Med Grp-Travis,NAME=60thMedGrp-Travis.xls,NAME2=60thMedGrp-Travis,FOLDER=West);
%RUNWD(AREA=61st Med Group-Los Angeles, NAME=61stMedGroup-LosAngeles.xls, NAME2=61stMedGroup-
LosAngeles, FOLDER=West);
%RUNWD(AREA=75th Med Grp-Hill,NAME=75thMedGrp-Hill.xls,NAME2=75thMedGrp-Hill,FOLDER=West);
%RUNWD(AREA=90th Med Grp-F.E. Warren, NAME=90thMedGrp-F.E. Warren.xls, NAME2=90thMedGrp-
F.E.Warren, FOLDER=West);
%RUNWD(AREA=92nd Med Grp-Fairchild,NAME=92ndMedGrp-Fairchild.xls,NAME2=92ndMedGrp-
Fairchild,FOLDER=West);
%RUNWD(AREA=95th Med Grp-Edwards, NAME=95thMedGrp-Edwards.xls, NAME2=95thMedGrp-
Edwards,FOLDER=West);
```

```
%RUNWD(AREA=99th Med Grp-OCallaghan Hosp,NAME=99thMedGrp-OCallaghanHosp.xls,NAME2=99thMedGrp-
OCallaghanHosp, FOLDER=West);
%RUNWD(AREA=Evans ACH-Ft. Carson, NAME=EvansACH-Ft.Carson.xls, NAME2=EvansACH-
Ft.Carson,FOLDER=West);
%RUNWD(AREA=Irwin ACH-Ft. Riley,NAME=IrwinACH-Ft.Riley.xls,NAME2=IrwinACH-Ft.Riley,FOLDER=West);
%RUNWD(AREA=L. Wood ACH-Ft. Leonard Wood, NAME=L.WoodACH-Ft.LeonardWood.xls, NAME2=L.WoodACH-
Ft.LeonardWood,FOLDER=West);
%RUNWD(AREA=Madigan AMC-Ft. Lewis, NAME=MadiganAMC-Ft.Lewis.xls, NAME2=MadiganAMC-
Ft.Lewis,FOLDER=West);
%RUNWD(AREA=Munson AHC-Ft. Leavenworth,NAME=MunsonAHC-Ft.Leavenworth.xls,NAME2=MunsonAHC-
Ft.Leavenworth,FOLDER=West);
%RUNWD(AREA=NBHC NAS North
Island,NAME=NBHCNASNorthIsland.xls,NAME2=NBHCNASNorthIsland,FOLDER=West);
%RUNWD(AREA=NBHC NTC San Diego,NAME=NBHCNTCSanDiego.xls,NAME2=NBHCNTCSanDiego,FOLDER=West);
%RUNWD(AREA=NBHC Port Hueneme,NAME=NBHCPortHueneme.xls,NAME2=NBHCPortHueneme,FOLDER=West);
%RUNWD(AREA=NH Bremerton,NAME=NHBremerton.xls,NAME2=NHBremerton,FOLDER=West);
%RUNWD(AREA=NH Camp Pendleton, NAME=NHCampPendleton.xls, NAME2=NHCampPendleton, FOLDER=West);
%RUNWD(AREA=NH LeMoore, NAME=NHLeMoore.xls, NAME2=NHLeMoore, FOLDER=West);
%RUNWD(AREA=NH Oak Harbor,NAME=NHOakHarbor.xls,NAME2=NHOakHarbor,FOLDER=West);
%RUNWD(AREA=NHC Hawaii,NAME=NHCHawaii.xls,NAME2=NHCHawaii,FOLDER=West);
%RUNWD(AREA=NMC San Diego,NAME=NMCSanDiego.xls,NAME2=NMCSanDiego,FOLDER=West);
%RUNWD(AREA=R W Bliss AHC-Ft. Huachuca, NAME=RWBlissAHC-Ft. Huachuca.xls, NAME2=RWBlissAHC-
Ft.Huachuca,FOLDER=West);
%RUNWD(AREA=TRICARE Outpatient-Chula Vista, NAME=TRICAREOutpatient-
ChulaVista.xls,NAME2=TRICAREOutpatient-ChulaVista,FOLDER=West);
%RUNWD(AREA=Tripler AMC-Ft. Shafter, NAME=TriplerAMC-Ft.Shafter.xls, NAME2=TriplerAMC-
Ft.Shafter,FOLDER=West);
%RUNWD(AREA=Weed ACH-Ft. Irwin,NAME=WeedACH-Ft.Irwin.xls,NAME2=WeedACH-Ft.Irwin,FOLDER=West);
%RUNWD(AREA=William Beaumont AMC-Ft. Bliss, NAME=WilliamBeaumontAMC-
Ft.Bliss.xls,NAME2=WilliamBeaumontAMC-Ft.Bliss,FOLDER=West);
/*--dont need to run for pdf report--;
%RUNWD(AREA=West Region-Air force, NAME=WestRegion-Airforce.xls, NAME2=WestRegion-
Airforce, FOLDER=West);
```

H.4.A Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH.SAS - Run CONUS TRICARE Consumer Watch reports - Run Quarterly.

```
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH.SAS
* PURPOSE: CALL CONSUMERWATCH MACRO PROGRAM
          TO PRODUCE EXCEL TABLE.
* WRITTEN: 02/10/2005 BY LUCY LU FOR Q4 2004.
* UPDATE: 4/26/2005 FOR Q1 2005.
* UPDATE: 8/4/2005 FOR Q2 2005.
* UPDATE: 12/15/2005 FOR Q4 2005.
* UPDATE: 04/04/2006 FOR Q2 FISCAL YEAR 2006, LUCY Lu. STARTING THIS QUARTER,
          THE PERIOD IS CHANGED TO FISCAL YEAR.
* UPDATE: 09/01/2006 Lucy Lu FOR FY 3 2006.
* UPDATE: 10/05/2006 Lucy Lu FOR FY 4 2006.
* MODIFIED 7/30/2007 BY LUCY LU
          UNIFY THE PERDIOD MACRO VARIABLES WITH BENEFICIARY REPORT CARDS PROGRAMS
          CURRNT ===> PERIOD4
          CURRNTQ ===> PERIOD4Q
          PREV1 ===> PERIOD3
          PREV1Q ===> PERIOD3Q
          PREV2
                 ===> PERIOD2
          PREV2Q ===> PERION2Q
                  ===> PERIOD1
          PREV3
          PREV3Q ===> PERIOND1Q
* UPDATED 12/27/2008 BY LUCY LU FOR Q1 FY 2008
          AUTOMATE THE CONSUMER WATCH REPORT PRODUCTION
 MODIFIED 5/11/09 BY LUCY LU
          1.MACRO INCLUDE PROGRAM IS MODIFIED BY REMOVING VALUE OF
            'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
            RELATED CODE.
          2. THE EXCEL AND WORD TEMPLATES ARE MODIFIED TO REMOVE THE CHARTS
            FOR 'Courteous and Helpful Office Staff'.
          3.MACRO VARIABLES %LET PERIODXQ WILL BE FIXED AT Q4-Q1.
            NO CHANGE NEEDED IN EACH QUARTER SINCE THEY ARE THE PROXIES FOR
            DATASET NAMES ONLY.
* MODIFIED 7/22/2010 LUCY LU
          MODIFY MACRO VARIABLES TO REFLECT THE CHANGE OF INCLUDE MACRO
          PROGRAM. SEE consumerwatch-macro.inc FOR DETAILS.
          1.CONSOLIDATE USMHS, REGION, SERVICE PROGRAMS INTO ONE SAS PROGRAM.
          2.REPLACE PERIOD MACRO VARIABLES WITH CURRENTQ AND CURRENTY.
 INPUT : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\LOADWEB\TOTAL_Q.SAS7BDAT
* OUTPUT : INTO EXCEL SPREADSHEET
* PROGRAM TO CALL: CONSUMERWATCH-MACRO.INC
                        ******************
OPTIONS MPRINT;
LIBNAME CURNTR '..\Loadweb';
*LIBNAME CURNTR 'L:\Q3FY2010\Programs\LoadWeb'; *TEMP;
*starting 2006, the period is changed to fiscal year, LLU 4/5/06;
%LET CURRENTY=2013;
                        *CURRENT FISCAL YEAR;
%LET CURRENTQ=3;
                        *CURRENT FISCAL QUARTER;
%LET PATH=L:\Q&CURRENTQ.FY&CURRENTY.\Programs\ConsumerWatch;
*%LET PATH=L:\Q4FY&CURRENTY.\Programs\ConsumerWatch; *TEMP;
TITLE "DOD CONSUMER WATCH Q&CURRENTQ FY &CURRENTY";
%INCLUDE "CONSUMERWATCH_MACRO.INC";
```

```
%RUNCW(AREA=USA MHS,FOLDER=USMHS);
/*

%RUNCW(AREA=NAVY,FOLDER=Navy);
%RUNCW(AREA=AIR FORCE,FOLDER=AirForce);
%RUNCW(AREA=ARMY,FOLDER=Army);
%RUNCW(AREA=WEST,FOLDER=West);
%RUNCW(AREA=NORTH,FOLDER=North);

%RUNCW(AREA=SOUTH,FOLDER=South);

%RUNCW(AREA=JOINT SERVICE,FOLDER=JointService);
%RUNCW(AREA=Overseas Europe,FOLDER=Europe);
%RUNCW(AREA=Overseas Pacific,FOLDER=Pacific);
*/
```

H.4.B Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH_MACRO.INC - Produce numbers for quarterly Consumer Watch reports.

```
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-MACRO.INC
* PURPOSE: To produce numbers that go into data sheet in Excel to produce graphs
          for regional consumer watch
* AUTHOR : MIKI SATAKE
* DATE
       : 4/24/01
* UPDATED: 7/16/01 FOR QUARTER 2 BY NATALIE JUSTH
* UPDATED: 10/16/01 FOR QUARTER 3 BY NATALIE JUSTH
* UPDATED: 1/11/02 FOR QUARTER 4 BY NATALIE JUSTH
 UPDATED AND RENAMED: 4/9/02 FOR OUARTER 1 2002 BY NATALIE JUSTH
* UPDATED: 7/5/02 FOR QUARTER 2 2002 BY NATALIE JUSTH
* UPDATED: 7/15/02 FOR QUARTER 3 2002 BY NATALIE JUSTH
* UPDATED: 11/12/02 FOR QUARTER 4 2002 BY NATALIE JUSTH
* UPDATED: 4/3/03 FOR QUARTER 1 2003 BY NATALIE JUSTH
* UPDATED: 5/19/03 FOR QUARTER 2 2003 BY NATALIE JUSTH
* UPDATED: 8/28/03 FOR QUARTER 3 2003 BY NATALIE JUSTH
 UPDATED: 11/14/03 FOR QUARTER 4 2003 BY NATALIE JUSTH
* UPDATED: 05/18/2004 FOR QUARTER 1 2004 BY KEITH RATHBUN
* UPDATED: 06/30/2004 FOR QUARTER 2 2004 BY LUCY LU
 UPDATED: 06/30/2004 FOR QUARTER 3 2004 BY LUCY LU. CHANGING XREGION TO XTNEXREG.
* UPDATED: 10/07/2004 BY LUCY LU. ADD THE CODE TO COMPARE CONSUMER WATCH
          WITH REPORT CARDS IN SCORES AND SIGNIFICANCE.*
* MODIFIED 2/10/05 BY LUCY LU:
          1). CREATE UNIVERSAL MACRO PROGRAM BASED ON PROGRAM CONSUMERWATCH-R.SAS
              TO ELIMINATE REDUNDANCY AND INCREASE THE EFFECTIVENESS OF PROGRAMMING.
          2). ADD ADDITIONAL PREVENTION MEASURE "SMOKING CESSATION"
              INTO PREVENTIVE CARE TABLE.
 MODIFIED 06/2/2005 BY LUCY LU FOR Q1 2005:
          1). REMOVE CHOLESTEROL MEASUREMENT AND ADD BMI MEASUREMENT
          2). COMMENT OUT DISENROLL CODE--NO DISENROLL DATA IN Q1 2005
          3). ADD SPECIALIST RATING.
 MODIFIED 11/16/2006 BY LUCY LU FOR FY Q4 2006
           ADD PURCHASE CARE VERSION -- CHANGE PRIME ENROLLEE TO
           Enrollees with Civilian PCM.
 MODIFIED 6/4/2007 BY LUCY LU. UNIFY THE MACRO PROGRAMS FOR CONSUMER WATCH.
          !! NEED TO DEFIND MACRO VARIABLE &POP IN SAS PROGRAMS:
          DIRECT CARE CONSUMDER WATCH: &POP=='Prime Enrollees'
          PURCHASE CARE CONSUMDER WATCH: &POP=='Enrollees with Civilian PCM'
 MODIFIED 7/30/2007 BY LUCY LU
          UNIFY THE PERDIOD MACRO VARIABLES WITH BENEFICIARY REPORT CARDS PROGRAMS
          CURRNT ===> PERIOD4
          CURRNTQ ===> PERIOD4Q
                 ===> PERIOD3
          PREV1
          PREV1Q ===> PERIOD3Q
          PREV2 ===> PERIOD2
          PREV2Q ===> PERION2Q
          PREV3 ===> PERIOD1
          PREV3Q ===> PERIOND1Q
 MODIFIED 5/11/09 BY LUCY LU
          1. STARTING THIS QUARTER, THE DATA DOES NOT INCLUDE THE VALUE OF
             'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
             RELATED CODE
          2. DELTED MACRO VAR &VAL AND REPLACED BY EXISTING MACRO VAR &AREA.
 MODIFIED 7/22/2010 BY LUCY LU
          1. AUTOMATE PERIOD (QAURTER/YEAR) TO MINIMIZE POSSIBLE ERROR
          2. ADD MACRO TO MINIMIZE EXCEL WAITING, REDUCE PROGRAM
             RUNNING TIME
          3. ELIMINATE UNNECESSARY MACRO VARIABLES PERIOD1Q-PERIOD4Q AND
             CONSOLIDATE MACRO PROGRAM
          4. REPLACE MACRO VAR &POP WITH 'Prime Enrollees'.
 INPUT : DATA FROM CONSUMER REPORTS:..\..\PROGRAMS\LOADWEB\TOTAL_Q.SAS7BDAT
* OUTPUT : INTO EXCEL SPREADSHEET
                     ***********************
```

```
OPTIONS PS=60 LS=120 ERRORS=2 NOCENTER NOFMTERR NOXWAIT NOXSYNC SPOOL;
*LLU 7/21/2010--AUTOMATING PERIOD, MINIMIZE POSSIBLE ERROR;
DATA M1;
*Set the first month of each quarter with order of running quarter 1 in FY;
DO MONTH='October', 'July', 'April', 'January';
END;
RUN;
%GLOBAL PERIOD4 PERIOD3 PERIOD2 PERIOD1;
DATA _NULL_;
  SET M1;
INDEX=_N_;
IF &CURRENTQ =1 THEN DO;
  ORDER=INDEX; YR= &CURRENTY -1;
END;
IF &CURRENTQ = 2 THEN DO;
  IF INDEX = 4 THEN DO; ORDER=1; YR=&CURRENTY; END; ELSE
  IF INDEX < 4 THEN DO; ORDER = INDEX+1; YR=&CURRENTY-1; END;
END;
IF &CURRENTQ = 3 THEN DO;
  IF INDEX >=3 THEN DO; ORDER=INDEX-2; YR=&CURRENTY; END; ELSE
  IF INDEX < 3 THEN DO; ORDER=INDEX+2; YR=&CURRENTY-1; END;</pre>
END;
IF &CURRENTQ = 4 THEN DO;
   IF INDEX IN (2,3,4) THEN DO; ORDER=INDEX-1; YR=&CURRENTY; END; ELSE
  IF INDEX =1 THEN DO; ORDER=4; YR=&CURRENTY-1; END; /*ELSE IF INDEX =4 THEN DO; ORDER=3; YR=&CURRENTY; END;*/
END;
LENGTH PERIOD $15;
PERIOD=TRIM(LEFT(MONTH))||','||' '||(PUT(YR,4.));
IF ORDER=1 THEN CALL SYMPUT('PERIOD4', TRIM(LEFT(PERIOD)));
IF ORDER=2 THEN CALL SYMPUT('PERIOD3', TRIM(LEFT(PERIOD)));
IF ORDER=3 THEN CALL SYMPUT('PERIOD2', TRIM(LEFT(PERIOD)));
IF ORDER=4 THEN CALL SYMPUT('PERIOD1', TRIM(LEFT(PERIOD)));
RUN;
%PUT PERIOD4 = &PERIOD4(current quarter);
%PUT PERIOD3 = &PERIOD3;
%PUT PERIOD2 = &PERIOD2;
%PUT PERIOD1 = &PERIOD1;
%MACRO RUNCW (AREA=,
                            /* Region/Service/conus
                          /* Folder containing excel template
              FOLDER=,
              CURRENT=CURNTR.TOTAL_Q
              );
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  LENGTH FID RC START STOP TIME 8;
  FID = FOPEN('CMDS' , 'S');
   IF (FID LE 0) THEN DO;
      RC = SYSTEM('START EXCEL');
      START = DATETIME();
      STOP = START + 10;
      DO WHILE (FID LE 0);
         FID = FOPEN('CMDS' , 'S');
         TIME = DATETIME();
         IF (TIME GE STOP) THEN FID = 1;
      END;
   END;
  RC = FCLOSE(FID);
RIIN;
```

```
*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;
%MACRO SETUP;
DATA _NULL_;
   SINGLE="'";
   DOUBLE='"';
LENGTH OPENXLS SAVEXLS $120;
  OPENXLS=SINGLE | " [OPEN(" | DOUBLE | | "&PATH.\TEMPLATE.XLSB" | DOUBLE | | ")]" | SINGLE;
  SAVEXLS=SINGLE | "[SAVE.AS("|DOUBLE||"&PATH.\&FOLDER..XLSB"|DOUBLE||")]"||SINGLE;
  CALL SYMPUT ("OPENXLS", TRIM(OPENXLS));
  CALL SYMPUT ("SAVEXLS", TRIM(SAVEXLS));
RUN;
%MEND SETUP;
%SETUP;
DATA _NULL_;
  FILE CMDS;
  PUT &OPENXLS;
  X=SLEEP(2);
  PUT '[ERROR(FALSE)]';
  PUT &SAVEXLS;
  PUT '[app.minimize()]';
RUN;
TITLE2 "&AREA.";
/* This macro pulls data from the specified dataset to be used in the Consumer Watch */
MACRO GETDATA (DATASET=, /* Current quarter data set */
                         /* Value of variable MAJGRP */
/* Value of variable REGION */
/* Value of variable REGCAT */
               MAJGRP=,
               REGION=,
               REGCAT=,
                          /* Value of variable BENEFIT */
/* Value of variable BENTYPE */
               BENEFIT=,
               BENTYPE=,
                          /* Value of variable BENTYPE */
/* Value of variable TIMEPD */
               TIMEPD=,
                           /* Name of output data set */
               OUTDATA=
PROC FREQ NOPRINT DATA=&DATASET;
  WHERE MAJGRP = &MAJGRP
    AND REGION IN &REGION
    AND REGCAT IN &REGCAT
    AND BENEFIT IN &BENEFIT
    AND BENTYPE = &BENTYPE
    AND TIMEPD = &TIMEPD;
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SCORE*N_OBS*N_WGT*SIG/ OUT=&OUTDATA(DROP=COUNT
PERCENT);
RUN;
%MEND GETDATA;
/* This macro re-calculates SCORE based on the quarterly benchmark */
7/20/2010 LLu, eliminate macro variables PERIOD1Q-PERIOD4Q and
consolidate the macro code:
      Figx_1=current quarter
      Figx_2=previous quarter 1
      Figx_3=previous quarter 2
      Figx_4=previous quarter 3
_____;
%DO QUARTER = 1 %TO 4;
```

```
DATA FIG&FIGURE._&QUARTER FIGB_&QUARTER(KEEP=SCORE N);
  SET FIG&FIGURE._&QUARTER;
N=1;
  IF REGION='Benchmark' THEN OUTPUT FIGB &OUARTER;
     ELSE OUTPUT FIG&FIGURE._&QUARTER;
RUN;
/*ADD CODE HERE TO PRESERVE ABOVE DATASET FOR LATER COMPARISON. LLU 10/7/04*/
DATA CFIG&FIGURE._&QUARTER;
  SET FIG&FIGURE._&QUARTER;
KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
DATA FIG&FIGURE. &OUARTER(DROP=RSCORE);
  MERGE FIGB_&QUARTER(RENAME=(SCORE=RSCORE))
        FIG&FIGURE._&QUARTER;
* SCORE=SCORE-RSCORE;
RIIN;
%END;
DATA FIG&FIGURE(DROP=BSCORE);
  SET BENCH FIG&FIGURE._1 FIG&FIGURE._2 FIG&FIGURE._3 FIG&FIGURE._4;
  RETAIN BSCORE;
  IF REGION = 'Benchmark' THEN DO;
     ROW = 3;
     BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD1" THEN DO;
     ROW = 4;
     SCORE=SCORE+BSCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD2" THEN DO;
    ROW = 5;
     SCORE=SCORE+BSCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD3" THEN DO;
    ROW = 6;
   * SCORE=SCORE+BSCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD4" THEN DO;
    ROW=7;
     SCORE=SCORE+BSCORE;
  END;
  COL2 = SCORE;
                 *3/4/08 LLu, increase the score by 100 to align with fig. 5-10;
  COL3 = SIG;
RUN;
PROC SORT;
  BY ROW;
RIIN;
%MEND NEWSCORE;
*************************
* FIGURE 1: Health Care Rating
TITLE2 'Figure 1: Health Care Rating';
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('Health Care'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD4"),
         OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
```

```
MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Health Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=FIG1_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Health Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD3"),
        OUTDATA=FIG1_2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Health Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD2"),
        OUTDATA=FIG1_3);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Health Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD1"),
        OUTDATA=FIG1_4);
%NEWSCORE (FIGURE=1);
************************
* DDE LINK
FILENAME TBL DDE "EXCEL RATINGS!R18C2:R22C3";
DATA _NULL_;
  SET FIG1;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2 '09'X COL3;
RIIN;
*****************
* FIGURE 2: Health Plan Rating
TITLE2 'Figure 2: Health Plan Rating';
GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=FIG2_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Health Plan'),
```

```
BENTYPE=('Composite'),
        TIMEPD=("&PERIOD3"),
        OUTDATA=FIG2_2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD2"),
        OUTDATA=FIG2_3);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Health Plan'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD1"),
        OUTDATA=FIG2_4);
%NEWSCORE (FIGURE=2);
***********************
* DDE LINK (EXCEL file has to be open )
FILENAME TBL DDE "EXCEL|RATINGS!R18C6:R22C7";
DATA _NULL_;
  SET FIG2;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2 '09'X COL3;
: MIIG
************************
* FIGURE 3: Personal Provider Rating
**************************************
TITLE2 'Figure 3: Personal Provider Rating';
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=FIG3_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD3"),
        OUTDATA=FIG3 2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD2"),
        OUTDATA=FIG3 3);
%GETDATA (DATASET=&CURRENT,
```

```
MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Personal Doctor'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD1"),
        OUTDATA=FIG3_4);
%NEWSCORE (FIGURE=3);
************************
* DDE LINK (EXCEL file has to be open )
****************************
FILENAME TBL DDE "EXCEL RATINGS!R18C10:R22C11";
DATA _NULL_;
  SET FIG3;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2 '09'X COL3;
*************************
* FIGURE 4: Specialist Rating--added for Q1 2005, LLu 6/2/05
TITLE2 'Figure 4: Specialist Rating';
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Specialty Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Specialty Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD4"),
        OUTDATA=FIG4_1);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Specialty Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD3"),
        OUTDATA=FIG4_2);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Specialty Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD2"),
        OUTDATA=FIG4_3);
%GETDATA (DATASET=&CURRENT,
        MAJGRP="Prime Enrollees",
        REGION=("&AREA",'Benchmark'),
REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Specialty Care'),
        BENTYPE=('Composite'),
        TIMEPD=("&PERIOD1"),
        OUTDATA=FIG4 4);
%NEWSCORE (FIGURE=4);
```

```
* DDE LINK (EXCEL file has to be open )
                                 *******************************
FILENAME TBL DDE "EXCEL RATINGS!R18C14:R22C15";
DATA _NULL_;
  SET FIG4;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2 '09'X COL3;
RIIN;
************************
* FIGURE 5: Access Composites
*****************************
TITLE2 'Figure 5: Access Composites';
GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD4"),
         OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD4"),
         OUTDATA=FIG5_1);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD3"),
         OUTDATA=FIG5 2);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA", 'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD2"),
         OUTDATA=FIG5_3);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA", 'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD1"),
         OUTDATA=FIG5 4);
*MOD 7/20/2010 LLu;
%MACRO COMPSCORE (FIGNUM=);
                              *Use macro for figures 5, 6, and 7;
%DO QUARTER = 1 %TO 4;
DATA FIG&FIGNUM._&QUARTER FIGB_&QUARTER (KEEP=SCORE BENEFIT SIG);
  SET FIG&FIGNUM._&QUARTER;
  IF REGION = 'Benchmark' THEN OUTPUT FIGB_&QUARTER;
     ELSE OUTPUT FIG&FIGNUM._&QUARTER;
PROC SORT DATA=FIG&FIGNUM._&QUARTER;
  BY BENEFIT;
PROC SORT DATA=FIGB_&QUARTER;
  BY BENEFIT;
RUN;
```

```
/*ADD CODE HERE TO PRESERVE THE SCORES IN CONUS_Q DATASET FOR LATER COMPARISON. LLU 10/7/04*/
DATA CFIG&FIGNUM._&QUARTER;
   SET FIG&FIGNUM._&QUARTER;
KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
DATA FIG&FIGNUM._&QUARTER(DROP=RSCORE);
  MERGE FIGB_&QUARTER(RENAME=(SCORE=RSCORE))
        FIG&FIGNUM._&QUARTER;
  BY BENEFIT;
  SCORE=SCORE-RSCORE;
RUN;
%END;
%MEND COMPSCORE;
%COMPSCORE (FIGNUM=5);
/*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER COMPARISON*/
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
    COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
     COL4(DROP=SCORE RENAME=(SCORE1=COL4))
     COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
     COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
    COL7(kEEP=ROW SIG RENAME=(SIG=COL7))
   SET BENCH FIG5_1 FIG5_2 FIG5_3 FIG5_4;
   BY BENEFIT;
   RETAIN BSCORE;
   IF REGION = 'Benchmark' THEN DO;
     BSCORE=SCORE;
     ROW = 18;
     SCORE1 = SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD1" THEN DO;
     ROW = 18;
      SCORE=BSCORE+SCORE;
      IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD2" THEN DO;
     ROW = 19;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   ELSE IF TIMEPD = "&PERIOD3" THEN DO;
     ROW = 20;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;</pre>
         ELSE SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD4" THEN DO;
     ROW = 21;
      SCORE=BSCORE+SCORE;
     SCORE1 = SCORE;
   END;
  IF (BENEFIT = 'Getting Needed Care' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
   IF (BENEFIT = 'Getting Needed Care' AND REGION = 'Benchmark') THEN OUTPUT COL3;
   IF (BENEFIT = 'Getting Care Quickly' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
   IF (BENEFIT = 'Getting Care Quickly' AND REGION = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
```

```
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 10/7/04*/
DATA FIG5A;
  MERGE COL2 COL6;
 BY ROW;
RUN;
DATA FIG5B;
  MERGE COL4 COL7;
 BY ROW;
RUN;
DATA FIG5AB;
  SET FIG5A FIG5B;
 BY ROW;
RUN;
DATA FIG5;
  MERGE COL2 COL3 COL4(KEEP=ROW COL4)
       COL5 COL6 COL7;
  BY ROW;
RUN;
***********
* DDE LINK (EXCEL file has to be open )
******************
FILENAME TBL DDE "EXCEL COMPOSITES!R18C2:R21C2";
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C3:R18C3";
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL3;
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C4:R21C4";
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL4;
RUN;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C5:R18C5";
DATA _NULL_;
  SET FIG5;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL5;
RUN;
FILENAME TBL DDE "EXCEL COMPOSITES!R23C2:R26C4";
DATA _NULL_;
  SET FIG5;
```

```
FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL6 '09'X '09'X COL7;
*************
* FIGURE 6: Office Composites
************
 /*LLU 5/11/09, DELETE datasets COL2,3,6 WITH SCORES OF
     'Courteous and Helpful Office Staff'*/
TITLE2 'Figure 6: Office Composites';
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD4"),
         OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD4"),
         OUTDATA=FIG6_1);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA", 'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD3"),
         OUTDATA=FIG6_2);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD2"),
         OUTDATA=FIG6_3);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD1"),
         OUTDATA=FIG6_4);
%COMPSCORE (FIGNUM=6);
/*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER COMPARISON*/
DATA COL4(DROP=SCORE RENAME=(SCORE1=COL4))
    COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
    COL7(kEEP=ROW SIG RENAME=(SIG=COL7))
  SET BENCH FIG6_1 FIG6_2 FIG6_3 FIG6_4;
  BY BENEFIT;
  RETAIN BSCORE;
  IF REGION = 'Benchmark' THEN DO;
     BSCORE=SCORE;
     ROW = 18;
     SCORE1 = SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD1" THEN DO;
     ROW = 18;
     SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
```

```
ELSE IF TIMEPD = "&PERIOD2" THEN DO;
     ROW = 19;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   END:
   ELSE IF TIMEPD = "&PERIOD3" THEN DO;
     ROW = 20;
    * SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   ELSE IF TIMEPD = "&PERIOD4" THEN DO;
     ROW = 21;
     * SCORE=BSCORE+SCORE;
     SCORE1 = SCORE;
   END;
   IF (BENEFIT = 'How Well Doctors Communicate' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7; IF (BENEFIT = 'How Well Doctors Communicate' AND REGION = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
DATA FIG6;
  MERGE COL4(KEEP=ROW COL4)
        COL5 COL7;
  BY ROW;
RIIN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 6. LLU 10/7/04*/
DATA FIG6AB;
  MERGE COL4 COL7;
 BY ROW;
RUN;
*****************
* DDE LINK (EXCEL file has to be open )
FILENAME TBL DDE "EXCEL|COMPOSITES!R18C9:R21C9";
DATA _NULL_;
  SET FIG6;
   FILE TBL NOTAB LRECL=200;
   X=SLEEP(.1);
   PUT COL4;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C10:R18C10";
DATA _NULL_;
  SET FIG6;
   FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL5;
FILENAME TBL DDE "EXCEL COMPOSITES!R23C9:R26C9";
DATA _NULL_;
  SET FIG6;
   FILE TBL NOTAB LRECL=200;
   X=SLEEP(.1);
```

END;

```
PUT COL7;
RUN;
* FIGURE 7: Claims/Service Composites
TITLE2 'Figure 7: Claims/Service Composites';
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD4"),
         OUTDATA=BENCH);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD4"),
         OUTDATA=FIG7 1);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD3"),
         OUTDATA=FIG7_2);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Customer Service', 'Claims Processing'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD2"),
         OUTDATA=FIG7 3);
%GETDATA (DATASET=&CURRENT,
         MAJGRP="Prime Enrollees",
         REGION=("&AREA", 'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         BENTYPE=('Composite'),
         TIMEPD=("&PERIOD1"),
         OUTDATA=FIG7_4);
%COMPSCORE (FIGNUM=7);
/*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER COMPARISON*/
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
    COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
     COL4(DROP=SCORE RENAME=(SCORE1=COL4))
    COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
    COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
    COL7(kEEP=ROW SIG RENAME=(SIG=COL7));
  SET BENCH FIG7_1 FIG7_2 FIG7_3 FIG7_4;
  BY BENEFIT;
  RETAIN BSCORE;
  IF REGION = 'Benchmark' THEN DO;
     BSCORE=SCORE;
     ROW = 18;
     SCORE1 = SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD1" THEN DO;
     ROW = 18;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
  ELSE IF TIMEPD = "&PERIOD2" THEN DO;
     ROW = 19;
```

```
SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD3" THEN DO;
     ROW = 20;
     SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD4" THEN DO;
     ROW = 21;
     * SCORE=BSCORE+SCORE;
     SCORE1 = SCORE;
  END;
  IF (BENEFIT = 'Customer Service' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
  IF (BENEFIT = 'Customer Service' AND REGION = 'Benchmark') THEN OUTPUT COL3;
  IF (BENEFIT = 'Claims Processing' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
  IF (BENEFIT = 'Claims Processing' AND REGION = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 7. LLU 10/7/04*/
DATA FIG7A;
  MERGE COL2 COL6;
 BY ROW;
RUN;
DATA FIG7B;
  MERGE COL4 COL7;
 BY ROW;
RUN;
DATA FIG7AB;
  SET FIG7A FIG7B;
 BY ROW;
RUN;
DATA FIG7;
  MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
  BY ROW;
RUN;
*************************
* DDE LINK (EXCEL file has to be open )
*******************************
FILENAME TBL DDE "EXCEL COMPOSITES!R18C14:R21C14";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL2;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C15:R18C15";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
```

```
PUT COL3;
RUN;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C16:R21C16";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL4;
FILENAME TBL DDE "EXCEL COMPOSITES!R18C17:R18C17";
DATA NULL;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL5;
FILENAME TBL DDE "EXCEL COMPOSITES!R23C14:R26C16";
DATA _NULL_;
  SET FIG7;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT COL6 '09'X '09'X COL7;
*************************
* TABLE 1: Preventive Care
*****************************
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP IN ("Prime Enrollees", 'Benchmark')
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                    'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD4";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_1(DROP=COUNT PERCENT);
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*N_OBS/ OUT=TAB2_1(DROP=COUNT PERCENT);
RIIN:
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = "Prime Enrollees"
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                  'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD3";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_2(DROP=COUNT PERCENT);
RUN;
PROC FREO NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = "Prime Enrollees"
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                    'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD2";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_3(DROP=COUNT PERCENT);
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = "Prime Enrollees"
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                    'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD1";
   TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_4(DROP=COUNT PERCENT);
```

```
RUN;
DATA TAB1_1;
   SET TAB1_1;
   IF MAJGRP = 'Benchmark' THEN DO;
     ROW=42;
      IF BENTYPE='Mammography' THEN COL2=SCORE;
         ELSE IF BENTYPE='Pap Smear' THEN COL3=SCORE;
         ELSE IF BENTYPE='Hypertension' THEN COL4=SCORE;
         ELSE IF BENTYPE='Prenatal Care' THEN COL5=SCORE;
         ELSE IF BENTYPE='Percent Not Obese' THEN COL6=SCORE;
         ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=SCORE;
         ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=SCORE;
   END;
     ELSE DO;
      ROW = 40;
      IF BENTYPE='Mammography' THEN DO;
         COL2=SCORE;
         COL9=SIG;
      END;
      ELSE IF BENTYPE='Pap Smear' THEN DO;
         COL3=SCORE;
         COL10=SIG;
      END;
      ELSE IF BENTYPE='Hypertension' THEN DO;
         COL4=SCORE;
         COL11=SIG;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
         COL5=SCORE;
         COL12=SIG;
      END;
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
         COL6=SCORE;
         COL13=SIG;
      END;
      ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
         COL7=SCORE;
         COL14=SIG;
      END;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
         COL8=SCORE;
         COL15=SIG;
      END;
    END;
   PROC SORT;
  BY ROW;
RUN;
DATA TAB2_1;
  SET TAB2 1;
  ROW=41;
   IF MAJGRP="Prime Enrollees";
   IF BENTYPE='Mammography' THEN COL2=N_OBS;
     ELSE IF BENTYPE='Pap Smear' THEN COL3=N_OBS;
      ELSE IF BENTYPE='Hypertension' THEN COL4=N_OBS;
      ELSE IF BENTYPE='Prenatal Care' THEN COL5=N_OBS;
      ELSE IF BENTYPE='Percent Not Obese' THEN COL6=N_OBS;
     ELSE IF BENTYPE='Non-Smoking Rate' THEN COL7=N_OBS;
      ELSE IF BENTYPE='Counselled To Quit' THEN COL8=N_OBS;
   PROC SORT;
  BY ROW;
RUN;
DATA TAB1_2;
  SET TAB1 2;
   ROW=39;
      IF BENTYPE='Mammography' THEN DO;
         COL2=SCORE;
         COL9=SIG;
      END;
      ELSE IF BENTYPE='Pap Smear' THEN DO;
         COL3=SCORE;
         COL10=SIG;
      END;
      ELSE IF BENTYPE='Hypertension' THEN DO;
```

```
COL4=SCORE;
         COL11=SIG;
      END;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
         COL5=SCORE;
      END:
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
         COL6=SCORE;
         COL13=SIG;
      ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
         COL7=SCORE;
         COL14=SIG;
      END;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
         COL8=SCORE;
         COL15=SIG;
      END;
   PROC SORT;
   BY ROW;
RUN;
DATA TAB1_3;
   SET TAB1_3;
   ROW=38;
      IF BENTYPE='Mammography' THEN DO;
         COL2=SCORE;
         COL9=SIG;
      END;
      ELSE IF BENTYPE='Pap Smear' THEN DO;
         COL3=SCORE;
         COL10=SIG;
      END;
      ELSE IF BENTYPE='Hypertension' THEN DO;
         COL4=SCORE;
         COL11=SIG;
      END;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
         COL5=SCORE;
         COL12=SIG;
      END;
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
         COL6=SCORE;
         COL13=SIG;
      END;
  ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
         COL7=SCORE;
         COL14=SIG;
      END;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
         COL8=SCORE;
         COL15=SIG;
      END;
   PROC SORT;
   BY ROW;
RUN;
DATA TAB1_4;
   SET TAB1_4;
   ROW=37;
      IF BENTYPE='Mammography' THEN DO;
         COL2=SCORE;
         COL9=SIG;
      END;
      ELSE IF BENTYPE='Pap Smear' THEN DO;
         COL3=SCORE;
         COL10=SIG;
      END;
      ELSE IF BENTYPE='Hypertension' THEN DO;
         COL4=SCORE;
         COL11=SIG;
      END;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
```

```
COL5=SCORE;
        COL12=SIG;
      END;
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
         COL6=SCORE;
         COL13=SIG;
      END:
   ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
        COL7=SCORE;
         COL14=SIG;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
         COL8=SCORE;
         COL15=SIG;
      END;
   PROC SORT;
   BY ROW;
RUN;
DATA TAB1;
  MERGE TAB1_4 TAB1_3 TAB1_2 TAB1_1 TAB2_1;
RIIN;
DATA COL2(DROP=COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL3(DROP=COL2 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL4(DROP=COL2 COL3 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL5(DROP=COL2 COL3 COL4 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL6(DROP=COL2 COL3 COL4 COL5 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL7(DROP=COL2 COL3 COL4 COL5 COL6 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL8(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL9(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL10 COL11 COL12 COL13 COL14 COL15)
     COL10(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL11 COL12 COL13 COL14 COL15)
     COL11(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL12 COL13 COL14 COL15)
     COL12(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL13 COL14 COL15)
  COL13(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL14 COL15)
    COL14(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL15)
   COL15(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14);
   SET TAB1;
   IF COL2 NE . THEN OUTPUT COL2;
   IF COL3 NE . THEN OUTPUT COL3;
   IF COL4 NE . THEN OUTPUT COL4;
   IF COL5 NE . THEN OUTPUT COL5;
   IF COL6 NE . THEN OUTPUT COL6;
  IF COL7 NE . THEN OUTPUT COL7;
  IF COL8 NE . THEN OUTPUT COL8;
   IF COL9 NE . THEN OUTPUT COL9;
  IF COL10 NE . THEN OUTPUT COL10;
  IF COL11 NE . THEN OUTPUT COL11;
  IF COL12 NE . THEN OUTPUT COL12;
   IF COL13 NE . THEN OUTPUT COL13;
  IF COL14 NE . THEN OUTPUT COL14;
  IF COL15 NE . THEN OUTPUT COL15;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
PROC SORT DATA=COL8; BY ROW; RUN;
PROC SORT DATA=COL9; BY ROW; RUN;
PROC SORT DATA=COL10; BY ROW; RUN;
PROC SORT DATA=COL11; BY ROW; RUN;
PROC SORT DATA=COL12; BY ROW; RUN;
PROC SORT DATA=COL13; BY ROW; RUN;
PROC SORT DATA=COL14; BY ROW; RUN;
PROC SORT DATA=COL15; BY ROW; RUN;
DATA TABLE1;
  MERGE COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15;
```

```
BY ROW;
RUN;
* DDE LINK (EXCEL file has to be open )
FILENAME TBL DDE "EXCEL|TABLES!R3C10:R8C24";
DATA _NULL_;
  SET TABLE1;
  FILE TBL NOTAB LRECL=200;
  IF ROW NE 42 THEN DO;
  PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X COL8 '09'X COL9 '09'X
COL10
      '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END:
  ELSE DO;
            *no benchmark for counselling;
  PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X '-' '09'X COL9 '09'X
      '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
RUN;
/*Run Excel macro signif, May 9 2006, LLU*/
options noxsync;
*-- Specify XL filename ;
*%let excelf = &FOLDER..XLSB ;
*-- Specify XL macro name ;
%let macron = signif ;
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
 FILE CMDS;
 DDECommand = '[Run("' || "&macron" || '",0)]';
 put DDEcommand ;
RUN;
DATA _NULL_;
  FILE CMDS;
  PUT '[SAVE]';
  PUT '[QUIT]';
RUN; */
DATA _NULL_;
  FILE CMDS;
  PUT '[CLOSE(TRUE)]';
******************
      COMPARE SCORES AND SIG B/T CONSUMER WATCH AND REPORT CARDS.
      SET 0.015 DIFFERENCE AS THRESHOLD.
     LUCY LU 10/07/2004
****************************
PROC SORT DATA=FIG1(DROP=SCORE);
                                        *FROM CONSUMER WATCH. LLU 10/8/04;
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=FIG2(DROP=SCORE);
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=FIG3(DROP=SCORE);
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=FIG5AB OUT=FIG5;
BY BENEFIT TIMEPD REGION;
```

```
PROC SORT DATA=FIG6AB OUT=FIG6;
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=FIG7AB OUT=FIG7;
BY BENEFIT TIMEPD REGION;
RUN;
%MACRO COMPARE(I=, TITL=);
DATA CFIG&I;
                              *FROM CONUS. LLU 10/8/04;
  SET CFIG&I._1
      CFIG&I._2
      CFIG&I._3
      CFIG&I._4
RUN;
PROC SORT DATA=FIG&I;
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=CFIG&I;
BY BENEFIT TIMEPD REGION;
RUN;
DATA COMBFIG&I;
  MERGE CFIG&I.(IN=F1) FIG&I(IN=F2);
BY BENEFIT TIMEPD REGION;
IF F1 AND F2;
FIG = &I;
IF FIG <=4 THEN DO;
   SCORE2=COL2;
   SIG2=COL3;
END;
ELSE IF FIG >4 THEN DO;
   IF COL2 >= 0 THEN SCORE2=COL2;
   ELSE IF COL4 >0 THEN SCORE2=COL4;
   IF COL6 >= .Z THEN SIG2=COL6;
   ELSE IF COL7>=.Z THEN SIG2=COL7;
END;
   SCOREDIF=SCORE2-SCORE;
   SIGDIF=SIG2-SIG;
IF ABS(SCOREDIF)>.015 OR SIGDIF>0 THEN FLAG=1;
ELSE FLAG=0;
KEEP BENEFIT TIMEPD REGION SCORE SIG SCORE2 SIG2 SCOREDIF SIGDIF FLAG;
LABEL
FLAG="DIFF IN SCORES >0.015 OR/AND DIFF IN SIG >0"
SCORE="SCORES FROM CONUS"
SCORE2="SCORES FROM CONSUMER WATCH"
SIG="SIG FROM CONUS"
SIG2="SIG FROM CONSUMER WATCH"
```

H.5.A Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH_WORD.SAS - Run the automation of the MS Word Consumer Watch report production.

```
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-Word.SAS
* PURPOSE: CALL CONSUMERWATCH-MACRO-WORD.INC PROGRAM
           TO PRODUCE WORD DOCUMENT FOR Consumer Watch report.
* WRITTEN: 2/21/2008 LUCY LU
* INPUT : EXCEL CHARTS
* OUTPUT : WORD DOCUMENTS
* PROGRAM TO CALL: CONSUMERWATCH-MACRO-WORD.INC
* MODIFIED : 4/2/2010 BY LUCY LU, SEE COMMENT ON INCLUDE FILE.
* MODIFIED : 7/23/2010 BY LUCY LU. COMBINE ALL 3 WORD PROGRAMS (USMHS,
           REGION, SERVICE) INTO A SINGLE PROGRAM.
OPTIONS MPRINT;
%LET QUARTER=3;
                                              *CURRENT QUARTER;
%LET PERIOD=April 2012 to March 2013;
                                              *FISCAL YEAR PRIOR TO CURRENT QUARTER;
%LET YEAR=2013;
                                              *CURRENT FISCAL YEAR;
%LET QUARTER3=third;
                                              *CURRENT QUARTER;
%LET PATH=L:\Q&QUARTER.FY&YEAR.\Programs\ConsumerWatch;
%LET RATEPATH=..\..\Data\Afinal\Response_Rate;
*%LET RATEPATH=L:\Q3FY2010\Data\AFinal\Response_Rate;
                                                                   *TEMP;
%INCLUDE "consumerwatch_macro_word.inc";
*%RUNWD(FOLDER=Army, YOURSAY=your service);
%RUNWD(FOLDER=North,YOURSAY=your region);
%RUNWD(FOLDER=West, YOURSAY=your region);
%RUNWD(FOLDER=South, YOURSAY=your region);
%RUNWD(FOLDER=Navy,YOURSAY=your service);
%RUNWD(FOLDER=JointService,NAME=Joint Service,YOURSAY=your service);
%RUNWD(FOLDER=Europe, YOURSAY=your region);
%RUNWD(FOLDER=Pacific, YOURSAY=your region);
%RUNWD(FOLDER=USMHS, NAME=US MHS, YOURSAY=US MHS);
%RUNWD(FOLDER=AirForce,NAME=Air Force,YOURSAY=your service);
```

H.5.B Q3FY2013\PROGRAMS\ConsumerWatch\CONSUMERWATCH_MACRO_WORD.INC - Automate the MS Word Consumer Watch report production.

```
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH-marco-WORD.INC
 AUTHOR : LUCY LU
 PURPOSE: Automate the copy and paste process, update the year, region,
          response rate and sample size for quarterly Consumer
          Watch report.
* DATE : 03/31/2009
 OUTPUT : WORD DOCUMENTS
 MODIFIED: 04/12/2010 BY LUCY LU
           1. Charts in Word are linked to Excel and automated updated once Excel
              makes change.
           2. Excel Triplet doeasn't work for MS 2007/SAS 9. Using direct VBA
               code in SAS.
           3. The final product is in pdf format. Word report is intentionally
              unsaved to reserve bookmarks.
 MODIFIED: 06/4/2010 BY LUCY LU
           1. Replicating the template of Q2 2010 report found the lower quality
              of charts in Word report. Using copy and paste instead of link.
            2. The final products are in Word and pdf format.
* MODIFIED 7/23/2010 BY LUCY LU
           ADD MACRO TO MINIMIZE EXCEL AND WORD WAITING, REDUCE PROGRAM
           RUNNING TIME
* MODIFIED 2/25/2013 BY LUCY LU
           ADD NEW FILE TO READ RESPONSE RATE FOR JOINT SERVICE
OPTIONS NOXWAIT SPOOL NOXSYNC;
*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;
%MACRO RUNWD(FOLDER=,NAME=&FOLDER,YOURSAY= );
*7/23/2010 LLU, Wait until Excel ready;
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  LENGTH FID RC START STOP TIME 8;
  FID = FOPEN('CMDS' , 'S');
  IF (FID LE 0) THEN DO;
     RC = SYSTEM('START EXCEL');
     START = DATETIME();
     STOP = START + 10;
     DO WHILE (FID LE 0);
        FID = FOPEN('CMDS', 'S');
        TIME = DATETIME();
        IF (TIME GE STOP) THEN FID = 1;
     END;
  END;
  RC = FCLOSE(FID);
RUN;
%MACRO SETUP;
  DATA TEST _NULL_;
  SINGLE="'";
  DOUBLE='"';
  LENGTH OPENXLS OPENWRD SAVEWRD $120;
  OPENXLS=SINGLE||"[OPEN("||DOUBLE||"&PATH.\&FOLDER.\xlsb"||DOUBLE||")]"||SINGLE;
  OPENWRD=SINGLE | "[FileOpen.Name="|DOUBLE|| %PATH.\template.docm" |DOUBLE | "]" |SINGLE;
```

```
SAVEWRD=SINGLE||"[FileSaveAs.Name="||DOUBLE||"&PATH.\&FOLDER.\DOCM"||DOUBLE||"]"||SINGLE
   CALL SYMPUT ("OPENXLS", TRIM(OPENXLS));
  CALL SYMPUT ("OPENWRD", TRIM(OPENWRD));
CALL SYMPUT ("SAVEWRD", TRIM(SAVEWRD));
RUN;
%MEND SETUP;
%SETUP;
DATA _NULL_;
FILE CMDS;
PUT &OPENXLS;
X=SLEEP(2);
PUT '[app.minimize()]';
RUN;
*7/23/2010 LLU, Wait until Word ready;
FILENAME CMNDS DDE "WINWORD SYSTEM";
DATA _NULL_;
 LENGTH FID RC START STOP TIME 8;
  FID=FOPEN('CMNDS','S');
  IF (FID LE 0) THEN DO;
    RC=SYSTEM('START WINWORD');
    START=DATETIME();
    STOP=START+10;
    DO WHILE (FID LE 0);
     FID=FOPEN('CMNDS','S');
     TIME=DATETIME();
      IF (TIME GE STOP) THEN FID=1;
     END;
    END;
 RC=FCLOSE(FID);
RUN;
DATA _NULL_;
 FILE CMNDS;
 PUT &OPENWRD;
 X=SLEEP(2);
 PUT &SAVEWRD;
 PUT '[APPMINIMIZE]';
RIIN;
%MACRO COPYIT;
%DO I=1 %TO 8;
    %LET WDMACRO=NEWPASTE&I;
    %LET EXMACRO=COPY&I;
FILENAME CMDS DDE "EXCEL SYSTEM";
      DATA _NULL_;
      FILE CMDS;
      DDECommand = '[Run("' | | "&exmacro" | | '",0)]';
      PUT DDEcommand ;
      RUN;
      FILENAME CMDS CLEAR;
      FILENAME CMNDS DDE 'WINWORD SYSTEM';
      /*DATA _NULL_;
      X=SLEEP(2);
      RUN; */
      DATA _NULL_;
```

FILE CMNDS;

```
put '[ToolsMacro .Name = "' "&wdmacro" '", .Run]';
      RUN;
      FILENAME CMNDS CLEAR;
      RUN;
%END;
%MEND COPYIT;
%COPYIT;
*READ THE SAMPLE SIZE AND RESPONSE RATE IN .OUT FILES
AND CREATE MACRO VARIABLES for Word document;
%MACRO RATE1 (DAT);
 DATA &DAT;
      INFILE "&RATEPATH.\&DAT..OUT" LRECL=9999 RECFM=V;
      INPUT LINEIN $100 @; DROP LINEIN;
      IF _N_ GE 7 THEN DO;
         INPUT
                           $CHAR40.
            @001 DOMAIN
            @141 FRR_UNWT 4.3
            @147 POP
                           $CHAR7.;
          OUTPUT;
     END;
 RUN;
*MS 2007 doesnt take comma7 format. This is hard code the comma into text;
DATA &DAT;
  SET &DAT;
LENGTH POP_UNWT $10;
  POP1=SUBSTR(RIGHT(POP),1,1);
   POP2=SUBSTR(RIGHT(POP),2,3);
   POP3=SUBSTR(RIGHT(POP),5,3);
   POP_UNWT=CATX(',',POP1,POP2,POP3);
RUN;
%MEND RATE1;
%RATE1(TABLE02A);
%RATE1(XTNEXREG);
%RATE1(XOCONUS);
%RATE1(SERVAFF);
%RATE1(JSFLAG);
DATA ALLRATE;
  SET TABLE02A
      XTNEXREG
      XOCONUS
      SERVAFF
      JSFLAG
   DOMAIN=COMPRESS(DOMAIN);
   IF UPCASE(DOMAIN)=UPCASE('WesternPacific') THEN DOMAIN='PACIFIC';
   IF UPCASE(DOMAIN) = UPCASE('Y') THEN DOMAIN='JOINTSERVICE';
   IF DOMAIN='' THEN DOMAIN="USMHS";
   FRR_UNWT=FRR_UNWT*100;
 *PUT POP UNWT= FRR UNWT=;
IF UPCASE("&FOLDER.")=UPCASE(DOMAIN) THEN OUTPUT;
RUN;
DATA _NULL_;
   SET ALLRATE;
```

```
CALL SYMPUT ("SIZE1", COMPRESS(POP_UNWT));
CALL SYMPUT ("RATE1", COMPRESS(FRR_UNWT));
FILENAME CMNDS DDE "WINWORD | SYSTEM";
DATA _NULL_;
  FILE CMNDS;
   *X=SLEEP(2);
  PUT '[AppMinimize]';
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Region1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&NAME";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Quarter1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&QUARTER";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Year1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&YEAR";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="SIZE"]';
put '[FormatFont.Font="Arial",.Points="10"]';
PUT "&SIZE1";
RUN;
DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="RATE"]';
put '[FormatFont.Font="Arial",.Points="10"]';
PUT "&RATE1";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Region2"]';
put '[FormatFont.Font="Arial",.Points="10"]';
PUT "&NAME";
RUN;
DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="YourSay"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&YOURSAY";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Quarter3"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&QUARTER3";
RUN;
```

```
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="year3"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&YEAR";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Period"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&PERIOD";
DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Region3"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&NAME";
RUN;
DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Quarter2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&QUARTER";
RUN;
DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Year2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&YEAR";
RUN;
*savs as pdf;
%LET CMACRO=SaveAspdf;
FILENAME CMNDS DDE 'WINWORD SYSTEM';
DATA _NULL_;
FILE CMNDS;
PUT '[ToolsMacro .Name = "' "&CMACRO" '", .Run]';
run;
FILENAME CMDS DDE 'EXCEL|SYSTEM';
DATA _NULL_;
   FILE CMDS;
   *PUT '[SAVE]'; *no save for Excel;
   PUT '[CLOSE(FALSE)]';
   PUT '[ERROR(FALSE)]';
   PUT '[QUIT]';
RUN;
/* reserved for future use;
FILENAME CMNDS DDE 'WINWORD SYSTEM';
DATA _NULL_;
FILE CMNDS;
PUT '[fileSave] ';
PUT '[FileClose 2] ';
RUN;*/
%MEND;
```

APPENDIX I

SAS CODE FOR STATISTICAL AND WEB SPECIFICATIONS FOR THE 2013 TRICARE PURCHASED CARE BENEFICIARY REPORTS - QUARTERS I-III

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

I.1.A Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\STEP1Q.SAS - Create and recode variables used in Adult Beneficiary Reports - Run Quarterly.

```
PROJECT: DoD - Quarterly Adult Report Cards
PROGRAM: STEP1Q.SAS
PURPOSE: Create Dummy and Recode Variables used in Adult Report Card
                 Create a Female dummy variable
                 Create an Education dummy variable
                 Create 15 region dummies combining regions.
                        7 & 8 into region 8. That is, there
                        isn't a region 7 dummy.
                 Create 7 age dummy variables.
          We require the most desired code to be the highest value.
          Recode the dependent variables into:
                 1 - the least desirable value
                 2 - the 2nd least desirable value
                 3 - the most desirable value
                 . - missing
          Create 7 variables GROUP1 - GROUP7
                IF (XINS\_COV\ IN\ (1,2,6)\ AND\ H10004>=2)\ THEN\ GROUP1=1
                IF (XENR_PCM IN (1,2,6) AND H10004>=2) THEN GROUP2 = 1
                                     AND H10004>=2) THEN GROUP3 = 1
                IF (XENR\_PCM = 3,7)
                IF XINS_COV IN (3)
                                                       THEN GROUP4 = 1
                        /*JSO 08/24/2006, Deleted 4,5*/
                IF XBNFGRP = 1
                                                       THEN GROUP5 = 1
                IF XBNFGRP = 2
                                                       THEN GROUP6 = 1
                IF XBNFGRP IN (3,4)
                                                       THEN GROUP7 = 1
                GROUP8 is output for all beneficiaries
MODIFIED: 1) February 2001 By Keith Rathbun, Update for quarterly
             adult report cards. Removed permanent dataset ENTIRE.SD2.
          2) August 2001 By Keith Rathbun, Updated DSN and LIBNAME
             for 3rd quarter adult report cards.
          3) OCTOBER 2001 BY DANIELE BEAHM, Because there was no post-
             stratification done in Q3, changed all references of the
             POSTSTR variable to ADJ_CELL
          4) JANUARY 2002 BY DANIELE BEAHM, Modified group3 to include
             XENR_PCM
          5) April 2002 By Mike Scott, Updated variable names for 2002
          6) July 2002 By Mike Scott: See Note #2. Replaced variable
             S02S01 with H04075 (new health status variable), deleted
             code to recode S02S01 to H00077, and changed H00077/R00077
             rename/recode to H04075/R04075 rename/recode. The Hispanic/
             Latino variable is not present.
          7) January 2003 By Mike Scott, Changed ADJ_CELL to COM_SAMP.
          8) March 2003 By Mike Scott, Updated variable names for 2003
             survey.
          9) June 2003 By Mike Scott, Updated for Q2 2003.
         10) July 2003 By Mike Scott, Changed COM_SAMP to ADJ_CELL.
         11) October 2003 By Mike Scott, Updated for Q3 2003.
         12) January 2004 By Mike Scott, Updated for Q4 2003, and changed
             DAGEQY to FIELDAGE.
         13) March 2004 By Mike Scott, Updated for Q1 2004.
         14) April 2004 By Keith Rathbun, Removed reverse coding for
             H04031. 2004 survey question wording is 'Within 15 minutes'
             instead of "More than 15 Minutes". Added service affiliation
             variables so only one version of this program is needed to
             handle the consumer watch processing.
             15) June 2004 by Regina Gramss, Updated for Q2 2004.
         16) Sept 2004 by Regina Gramss, changed XRegion to xtenxreg, updated for Q3 2004.
         17) Jan 2005 by Regina Gramss, changed XTENXREG to XSERVREG to include
             service affiliation. Regions have been changed from 4 categories to 16.
         18) Apr 2005 by Regina Gramss, updated field names for 2005 data.
         19) Jul 2005 by Regina Gramss, updated for Q2 2005
         20) Oct 2005 by Regina Gramss, updated for Q3 2005
         21) Dec 2005 by Regina Gramss, updated for Q4 2005
         22) March 21, 2006 by Keith Rathbun, updated variable names
```

```
for Q2 FY 2006. Changed references to ADJ_CELL to be STRATUM.
            23) July 12, 2006 by Justin Oh, updated for Q3 FY 2006
            24) Aug 22, 2006 by Justin Oh, changed overseas to 3 regions.
                Regions have been changed from 16 categories to 24.
                Added XOCONUS to the Keep statement for Overseas classifications.
                Changed XSERVREG for Overseas (Europe, Pacific, Latin America).
                Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                       IF XINS_COV IN (3)
                                            THEN GROUP4 = 1
               Since only XINS_COV IN (1,2,3,6) is kept, (4,5) not needed.
            25) Oct 03, 2006 by Justin Oh, changed input data HCS063_1 to HCS064_1
               for Q4FY2006 reports.
            26) Apr 05, 2007 by Justin Oh, Added %LET BCHTYPE to select BCH types
                Benchmark OR PurchasedBenchmark.
            27) Apr 05, 2007 by Justin Oh, Added changes to select RC types
               ReportCards OR PurchasedReportCards.
            28) Apr 26, 2007 by Justin Oh, Added codes, variables for new
                reservists logic.
            29) May 15, 2007 by Justin Oh, Changed XINS_COV to NXNS_COV to assign
                Groups 1,3, and 4 for new reservists logic.
            30) Jul 30, 2007 by Justin Oh, Added added DBENCAT conditions to assign
                Groups All, 4, 5, and 6.
            31) Oct 02, 2007 by Justin Oh, changed input data HCS073_1 to HCS074_1
               for Q4FY2007 reports.
            32) January 10, 2008 by Keith Rathbun, updated variable names
               for Q1 FY 2008.
            33) Apr 11, 2008 by Justin Oh, changed input data HCS081_1 to HCS082_1
                for Q2FY2008 reports.
            34) June 13, 2008 by Keith Rathbun, changed input data HCS082_1 to HCS083_1
                for Q3FY2008 reports.
            35) Jan 16, 2009 by Mike Rudacille, changed CONUS variable to USA
            36) Jan 21, 2009 by Mike Rudacille, changed 2009 questionnaire variables
                applicable to both V3 and V4 from V3 names to V4 names
            37) March 11, 2009 by Keith Rathbun, changed input data HCS091_1 to HCS092_1
                for Q2FY2009 reports.
            38) April 6, 2009 by Mike Rudacille, changed variable names to reflect
               modifications to beneficiary reports necessary for V4
            39) June 22, 2009 By Keith Rathbun, Change weight variable from
                FWRWT_V4 back to FWRWT. Changed input data HCS092_1 to HCS093_1
                for Q3FY2009 reports.
            40) Sept 30, 2009 By Mike Rudacille, Changed input data HCS093_1 to HCS094_1
                for Q4FY2009 reports.
            41) December 17, 2009 By Emma Ernst, Updated program for Q1FY2010. Updated Variables
names
                and input dataset.
            42) March 2, 2010 By Mike Rudacille, Changed input data HCS101_1 to HCS102_1
            43) March 25, 2010 By Mike Rudacille, Changed input data HCS102_1 to HCS102_2.
               The FIELDAGE var is no longer included in the HCSyyq_1 dataset.
            44) June 19, 2010 By Mike Rudacille, Changed input data HCS102_2 to HCS103_2.
            45) August 28, 2010 By Mike Rudacille, Changed input data HCS103_2 to HCS104_2.
            46) December 1, 2010 By Mike Rudacille, Updated program for Q1FY2011. Updated
Variable names
                and input dataset.
            47) February 24, 2011 By Mike Rudacille, Changed input data HCS111_2 to HCS112_2.
            48) December 10, 2011 By Mike Rudacille, Updated program for Q1FY2012. Updated
Variable names
                and input dataset.
            49) March 5, 2012 By Amanda Kudis, Updated program for Q2FY2012.
            50) June 21, 2012 By Amanda Kudis, Updated program for Q3FY2012.
            51) August 23, 2012 By Christine Cheu, Updated program for Q4FY2012.
            52) November 3, 2012 By Mike Rudacille, Updated for handling of Joint Service
facilities
            53) December 27, 2012 By Aimee Valenzuela, Update program for Q1FY2013. Updated
Variable names
                and input dataset.
            54) March 23, 2013 By Mike Rudacille, Update program for Q2FY2013.
  INPUTS:
            1) HCSyyq_2 - DoD Quarterly HCS Database
  OUTPUTS: 1) GROUP1-8.sas7bdat - DoD Quarterly GROUP files as defined above
  INCLUDES: 1) CONVERT.SAS - Convert item responses to proportional
                              values for consistency w/ TOPS
```

```
* NOTES:
           1) Groups 1-3 modified 10/09/2000
            2) In Q1_2002, S02S01 was renamed and recoded to {\tt H00077} (health
               status variable for 2000). H02077 was the Hispanic/Latino
               variable. In Q2_2002, H02077 is health status, and H02079
               is the Hispanic/Latino variable. To make the Quarter 2 data
               file (HSC022_1.sd2) more consistent with the Quarter 1 file,
               the health status variable which was H02077 is now H04075,
               and the Hispanic/Latino variable which was H02079 is now
               H02077.
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = PurchasedReportCards;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMTERR NOOVP COMPRESS=YES;
LIBNAME OUT "DATA";
                "..\..\Data\AFinal";
LIBNAME IN1
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
        'Program Saved as: STEP1Q.SAS';
%LET WGT = FWRWT;
proc format;
    value servreg 1 = 'North Army'
                  2 = 'North Air Force'
                  3 = 'North Navy'
                  4 = 'North Other'
                  5 = 'North Joint Service'
                  6 = 'South Army'
                  7 = 'South Air Force'
                  8 = 'South Navy'
                 9 = 'South Other'
                 10 = 'South Joint Service'
                 11 = 'West Army'
                 12 = 'West Air Force'
                 13 = 'West Navy'
                 14 = 'West Other'
                 15 = 'West Joint Service'
                 16 = 'Europe Army'
                 17 = 'Europe Air Force'
                 18 = 'Europe Navy'
                 19 = 'Europe Other'
                 20 = 'Europe Joint Service'
                 21 = 'Pacific Army'
                 22 = 'Pacific Air Force'
                 23 = 'Pacific Navy'
                 24 = 'Pacific Other'
                 25 = 'Pacific Joint Service'
                 26 = 'Latin America Army'
                 27 = 'Latin America Air Force'
                 28 = 'Latin America Navy'
                 29 = 'Latin America Other'
                 30 = 'Latin America Joint Service';
DATA ENTIRE;
  SET IN1.HCS133_2(KEEP=
                MPRID
                XCATCH
                         /*MER 11/03/12*/
                FIELDAGE
                          /*MJS 01/26/04*/
                XTNEXREG
                SERVAFF
                          /*KRR 04/09/04*/
                DBENCAT /*JSO 04/26/2007, added for reservists logic*/
                USA
                ENBGSMPL
                SREDA
                XSEXA
                XBNFGRP
                STRATUM
                          /*KRR 04/03/2006, changed from ADJ_CELL*/
                XINS_COV
                XENR_PCM
```

```
XOCONUS
                          /*JSO 08/24/2006, Overseas Region Indicator*/
                 &WGT.
                 /* Getting Needed Care */
                 H13033
                 H13029
                 /* Getting Care Quickly */
                 H13007
                 H13010
                 /* How Well Doctors Communicate */
                 H13021
                 H13022
                 H13023
                 H13024
                 /* Customer Service */
                 H13041
                 H13042
                 /* Claims Processing */
                 H13046
                 H13065 /* Health Status
H13018 /* Health Care Rating
                 H13048 /* Health Plan Rating
                H13027 /* Personal Doctor Rating
H13031 /* Specialist Rating
H13003 /* Health Plan Used
                                                    */
                                                       *//*JSO 04/26/2007, added for reservists
logic*/
                H13004 /* How Long in Health Plan */
                         /****************************
   FORMAT _ALL_;
    IF SERVAFF='A' THEN XSERVAFF=1;
                                                  *Army;
      ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                                  *Air Force;
       ELSE IF SERVAFF='N' THEN XSERVAFF=3;
                                                 *Navy;
      ELSE XSERVAFF=4;
                                                  *Other;
    IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
    IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
    IF XTNEXREG = . THEN DELETE; /* RSG 02/2005 USE CACSMPL TO DELETE MISSING FIELDS*/
    IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
Added 10,11*/
    NXNS_COV = XINS_COV;
                                      /*JSO 04/26/2007 added for reservists logic*/
                                      /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
    IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
    IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
      NXNS_COV = 3;
      XENR\_PCM = .;
    END;
                       /* Note: use tmp_cell in step2q.sas */
   LENGTH TMP_CELL XSERVREG 8;
    TMP_CELL = STRATUM; /*KRR 04/03/2006, changed from ADJ_CELL*/
    IF XTNEXREG = 1 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 1;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
      ELSE XSERVREG = 5;
    END;
    IF XTNEXREG = 2 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 6;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
       ELSE XSERVREG = 10;
    END;
    IF XTNEXREG = 3 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 11;
```

```
ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
     ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
     ELSE XSERVREG = 15;
   END;
   IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
      IF XOCONUS = 1 THEN DO;
              XSERVAFF = 1 THEN XSERVREG = 16;
        ELSE IF XSERVAFF = 2 THEN XSERVREG = 17;
        ELSE IF XSERVAFF = 3 THEN XSERVREG = 18;
        ELSE IF XSERVAFF = 4 THEN XSERVREG = 19;
                              XSERVREG = 20;
     END;
     IF XOCONUS = 2 THEN DO;
              XSERVAFF = 1 THEN XSERVREG = 21;
        IF
        ELSE IF XSERVAFF = 2 THEN XSERVREG = 22;
        ELSE IF XSERVAFF = 3 THEN XSERVREG = 23;
        ELSE IF XSERVAFF = 4 THEN XSERVREG = 24;
        ELSE
                              XSERVREG = 25;
     END;
     IF XOCONUS = 3 THEN DO;
        TF
             XSERVAFF = 1 THEN XSERVREG = 26;
        ELSE IF XSERVAFF = 2 THEN XSERVREG = 27;
        ELSE IF XSERVAFF = 3 THEN XSERVREG = 28;
        ELSE IF XSERVAFF = 4 THEN XSERVREG = 29;
        ELSE
                              XSERVREG = 30;
     END;
   END;
RUN;
*******************
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies. Recode region 7 to region 8.
DATA ENTIRE;
  SET ENTIRE;
  LENGTH DEFAULT = 4;
  IF FIELDAGE NE " " THEN DO; /*MJS 01/26/04*/
    AGE1824=0;
    AGE2534=0;
    AGE3544=0;
    AGE4554=0;
    AGE5564=0;
    AGE6574=0;
           ( '018' <= FIELDAGE <= '024' ) THEN AGE1824=1;
                                                      /*MJS 01/26/04*/
    IF
    ELSE IF ( '025' <= FIELDAGE <= '034' ) THEN AGE2534=1;
     ELSE IF ( '035' <= FIELDAGE <= '044' ) THEN AGE3544=1;
     ELSE IF ( '045' <= FIELDAGE <= '054' ) THEN AGE4554=1;
     ELSE IF ( '055' <= FIELDAGE <= '064' ) THEN AGE5564=1;
    ELSE IF ( '065' <= FIELDAGE <= '074' ) THEN AGE6574=1;
                   FIELDAGE > '074' ) THEN AGE75UP=1;
     ELSE IF (
  ******************
  * Create the FEMALE dummy variable.
  ********************
  TF XSEXA = 2 THEN
    FEMALE = 1;
  ELSE
    FEMALE = 0;
  *******************
  * Create the beneficiary group/enrollment group subsets.
  GROUP1 = 0;
  GROUP2 = 0;
  GROUP3 = 0;
  GROUP4 = 0;
  GROUP5 = 0;
  GROUP6 = 0;
```

```
GROUP7 = 0;
  GROUP8 = 1;
                 * EVERYONE;
  IF (NXNS_COV IN (1,2,6) AND H13004>=2) THEN GROUP1 = 1;
  IF (XENR\_PCM IN (1,2,6) AND H13004>=2) THEN GROUP2 = 1;
  /* JSO 04/05/2007 conditions to run RC type */
  IF "&RCTYPE" = 'ReportCards' AND (XENR_PCM IN (3,7) AND H13004>=2) THEN GROUP3 = 1;
  ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND ((XENR_PCM IN (3,7) AND H13004>=2) OR NXNS_COV
IN (3,9,10)) THEN GROUP3 = 1;
  IF NXNS_COV IN (3,9,10)
                             THEN GROUP4 = 1; /*JSO 08/24/2006, Deleted 4,5*//*JSO 07/30/2007,
Added 9*/ /*MER 07/12/11 Added 10*/
  IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN GROUP5 = 1;
                                          /*JSO 07/30/2007, added DBENCAT conditions*/
  IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN GROUP6 = 1;
                                          /*JSO 07/30/2007, added DBENCAT conditions*/
  IF XBNFGRP IN (3.4)
                         THEN GROUP 7 = 1;
  ******************
  * Recode variables with Never, Sometimes, Usually and Always:
       Recode Never & Sometimes (1 & 2) to 1.
       Recode Usually (3) to 2.
       Recode Always (4) to 3.
  IF H13007 = 1
                    THEN R13007 = 1;
  ELSE IF H13007 = 2 THEN R13007 = 1;
  ELSE IF H13007 = 3 THEN R13007 = 2;
  ELSE IF H13007 = 4 THEN R13007 = 3;
  ELSE IF H13007 < 0 THEN R13007 = .;
  IF H13010 = 1
                    THEN R13010 = 1;
  ELSE IF H13010 = 2 THEN R13010 = 1;
  ELSE IF H13010 = 3 THEN R13010 = 2;
  ELSE IF H13010 = 4 THEN R13010 = 3;
  ELSE IF H13010 < 0 THEN R13010 = .;
  IF H13021 = 1
                   THEN R13021 = 1;
  ELSE IF H13021 = 2 THEN R13021 = 1;
  ELSE IF H13021 = 3 THEN R13021 = 2;
  ELSE IF H13021 = 4 THEN R13021 = 3;
  ELSE IF H13021 < 0 THEN R13021 = .;
  IF H13022 = 1
                    THEN R13022 = 1;
  ELSE IF H13022 = 2 THEN R13022 = 1;
  ELSE IF H13022 = 3 THEN R13022 = 2;
  ELSE IF H13022 = 4 THEN R13022 = 3;
  ELSE IF H13022 < 0 THEN R13022 = .;
  IF H13023 = 1
                  THEN R13023 = 1;
  ELSE IF H13023 = 2 THEN R13023 = 1;
  ELSE IF H13023 = 3 THEN R13023 = 2;
  ELSE IF H13023 = 4 THEN R13023 = 3;
  ELSE IF H13023 < 0 THEN R13023 = .;
  IF H13024 = 1
                  THEN R13024 = 1;
  ELSE IF H13024 = 2 THEN R13024 = 1;
  ELSE IF H13024 = 3 THEN R13024 = 2;
  ELSE IF H13024 = 4 THEN R13024 = 3;
  ELSE IF H13024 < 0 THEN R13024 = .;
  IF H13029 = 1
                   THEN R13029 = 1;
  ELSE IF H13029 = 2 THEN R13029 = 1;
  ELSE IF H13029 = 3 THEN R13029 = 2;
  ELSE IF H13029 = 4 THEN R13029 = 3;
  ELSE IF H13029 < 0 THEN R13029 = .;
  IF H13033 = 1
                   THEN R13033 = 1;
  ELSE IF H13033 = 2 THEN R13033 = 1;
  ELSE IF H13033 = 3 THEN R13033 = 2;
  ELSE IF H13033 = 4 THEN R13033 = 3;
  ELSE IF H13033 < 0 THEN R13033 = .;
```

IF H13041 = 1

THEN R13041 = 1;

```
ELSE IF H13041 = 3 THEN R13041 = 2;
  ELSE IF H13041 = 4 THEN R13041 = 3;
  ELSE IF H13041 < 0 THEN R13041 = .;
  IF H13042 = 1
                    THEN R13042 = 1;
  ELSE IF H13042 = 2 THEN R13042 = 1;
  ELSE IF H13042 = 3 THEN R13042 = 2;
  ELSE IF H13042 = 4 THEN R13042 = 3;
  ELSE IF H13042 < 0 THEN R13042 = .;
  IF H13046 = 1
                  THEN R13046 = 1;
  ELSE IF H13046 = 2 THEN R13046 = 1;
  ELSE IF H13046 = 3 THEN R13046 = 2;
  ELSE IF H13046 = 4 THEN R13046 = 3;
  ELSE IF H13046 < 0 THEN R13046 = .;
  IF H13047 = 1
                    THEN R13047 = 1;
  ELSE IF H13047 = 2 THEN R13047 = 1;
  ELSE IF H13047 = 3 THEN R13047 = 2;
  ELSE IF H13047 = 4 THEN R13047 = 3;
  ELSE IF H13047 < 0 THEN R13047 = .;
  *****************
  * Recode variables to one missing condition ".".
  * This also renames all the "Hyyxxx" to "Ryyxxx".
  R13027 = H13027; IF R13027 < 0 THEN R13027 = .;
  R13031 = H13031; IF R13031 < 0 THEN R13031 = .;
  R13018 = H13018; IF R13018 < 0 THEN R13018 = .;
R13048 = H13048; IF R13048 < 0 THEN R13048 = .;
R13065 = H13065; IF R13065 < 0 THEN R13065 = .;
  ******************
  * Create region and service affiliation dummies.
  *******************
  to 30*/
     ARRAY REGDUMS (30) REG01 REG02 REG03 REG04 REG05 REG06
                       REG07 REG08 REG09 REG10 REG11 REG12
                       REG13 REG14 REG15 REG16 REG17 REG18
                       REG19 REG20 REG21 REG22 REG23 REG24
                       REG25 REG26 REG27 REG28 REG29 REG30;
     DO I = 1 \text{ TO } 30;
       REGDUMS(I)=0;
     END;
              XSERVREG= 1 THEN REG01 =1;
     TF
     ELSE IF XSERVREG= 2 THEN REG02 =1;
ELSE IF XSERVREG= 3 THEN REG03 =1;
     ELSE IF XSERVREG= 4 THEN REG04 =1;
     ELSE IF XSERVREG= 5 THEN REG05 =1;
     ELSE IF XSERVREG= 6 THEN REG06 =1;
ELSE IF XSERVREG= 7 THEN REG07 =1;
     ELSE IF XSERVREG= 8 THEN REG08 =1;
     ELSE IF XSERVREG= 9 THEN REG09 =1;
ELSE IF XSERVREG= 10 THEN REG10 =1;
     ELSE IF XSERVREG= 11 THEN REG11 =1;
     ELSE IF XSERVREG= 12 THEN REG12 =1;
     ELSE IF XSERVREG= 13 THEN REG13 =1;
     ELSE IF XSERVREG= 14 THEN REG14 =1;
     ELSE IF XSERVREG= 15 THEN REG15 =1;
     ELSE IF XSERVREG= 16 THEN REG16 =1;
     ELSE IF XSERVREG= 17 THEN REG17
                                     =1;
     ELSE IF XSERVREG= 18 THEN REG18 =1;
     ELSE IF XSERVREG= 19 THEN REG19 =1;
     ELSE IF
             XSERVREG= 20 THEN REG20
                                     =1;
     ELSE IF XSERVREG= 21 THEN REG21 =1;
     ELSE IF XSERVREG= 22 THEN REG22 =1;
     ELSE IF XSERVREG= 23 THEN REG23 =1;
ELSE IF XSERVREG= 24 THEN REG24 =1;
     ELSE IF XSERVREG= 25 THEN REG25 =1;
                                     =1:
     ELSE IF XSERVREG= 26 THEN REG26
     ELSE IF XSERVREG= 27 THEN REG27
```

ELSE IF H13041 = 2 THEN R13041 = 1;

```
ELSE IF XSERVREG= 28 THEN REG28 =1;
     ELSE IF XSERVREG= 29 THEN REG29 =1;
ELSE IF XSERVREG= 30 THEN REG30 =1;
     ARRAY SRVDUMS (5) SRV01 SRV02 SRV03 SRV04 SRV05; /*MER 11/03/2012 Changed from 4 to 5*/
     DO I = 1 \text{ TO } 5;
                     /*Needed for consumer watch ONLY */
       SRVDUMS(I)=0;
     END;
     IF
             XSERVAFF = 1 THEN SRV01 = 1;
     ELSE IF XSERVAFF = 2 THEN SRV02 = 1;
     ELSE IF XSERVAFF = 3 THEN SRV03 = 1;
     ELSE IF XSERVAFF = 4 THEN SRV04 = 1;
ELSE IF XSERVAFF = 5 THEN SRV05 = 1;
  END;
RUN;
* Recode item responses to proportional values using CONVERT.SAS.
****************************
%INCLUDE "CONVERT SAS";
%CONT2(DSN=ENTIRE, NUM=4, Y=R13018 R13048 R13027 R13031);
%CONT3(DSN=ENTIRE, NUM=12, Y=R13007 R13010 R13029 R13033
                         R13021 R13022 R13023 R13024
                         R13041 R13042 R13046 R13047);
* Sort the main file to reorder it by MPRID.
PROC SORT DATA=ENTIRE; BY MPRID; RUN;
* Print the contents of ENTIRE dataset.
PROC CONTENTS DATA=ENTIRE;
 TITLE2 'Contents of ENTIRE';
RUN;
************************
* Print some of the recoded records.
*************************
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR MPRID
              /*MJS 01/26/04*/
      FIELDAGE
      XTNEXREG
      XSERVAFF
      XSERVREG
      USA
      ENBGSMPL
      XSEXA
      STRATUM
             /*KRR 04/03/2006 Changed from ADJ_CELL*/
      XINS COV
      NXNS_COV \slash\hspace{-0.05cm} /*JSO 04/26/2007, added for reservists logic*/
              /*JSO 04/26/2007, added for reservists logic*/
      DBENCAT
     XENR PCM
     &WGT.
     ;
RUN;
*******************
* Print some of the recoded records.
       *************************************
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of AGE and SEX dummies';
  VAR FIELDAGE
               /*MJS 01/26/04*/
     AGE1824
     AGE 2534
      AGE3544
```

```
AGE4554
       AGE5564
       AGE6574
       AGE75UP
       XSEXA
       FEMALE
       ENBGSMPL
       XINS_COV
       NXNS_COV
       XENR_PCM
       XBNFGRP
       GROUP1
       GROUP2
       GROUP3
       GROUP4
       GROUP5
       GROUP6
       GROUP7
       ;
RUN;
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded question variables';
   VAR H13007 R13007
       H13010 R13010
H13021 R13021
       H13022 R13022
       H13023 R13023
H13024 R13024
       H13029 R13029
       H13033 R13033
       H13041 R13041
H13042 R13042
       H13046 R13046
       H13047 R13047
H13018 R13018
       H13027 R13027
       H13031 R13031
       H13048 R13048
H13065 R13065
RUN;
/*\mbox{JSO} 08/24/2006, Changed 16 to 24*/
/*MER 11/03/2012, Changed 24 to 30*/
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded REGION variables';
   VAR XSERVREG
       REG01
       REG02
       REG03
       REG04
       REG05
       REG06
       REG07
       REG08
       REG09
       REG10
       REG11
       REG12
       REG13
       REG14
       REG15
       REG16
       REG17
       REG18
       REG19
       REG20
       REG21
       REG22
```

```
REG23
      REG24
      REG25
      REG26
      REG27
      REG28
      REG29
      REG30;
RUN;
/*MER 11/03/2012 Changed 4 to 5*/
PROC PRINT DATA=ENTIRE(OBS=60);
  TITLE2 'Print of recoded service affiliation variables';
  VAR XSERVREG
      XSERVAFF
      XOCONUS /*JSO 08/24/2006, Changed Overseas Regions*/
      SRV01
      SRV02
      SRV03
      SRV04
     SRV05
RUN;
*******************
* Create the 7 subgroups for processing by STEP2.SAS.
DATA OUT.GROUP1
    OUT.GROUP2
    OUT.GROUP3
    OUT.GROUP4
    OUT.GROUP5
    OUT.GROUP6
    OUT.GROUP7
    OUT.GROUP8;
    SET ENTIRE;
    DROP
      H13007
      н13010
      H13021
      H13022
      H13023
      H13024
      н13029
      H13033
      H13041
      H13042
      н13046
      H13047
       H13018
      H13027
       H13031
      H13048
      H13065
     IF GROUP1 = 1 THEN OUTPUT OUT.GROUP1;
     IF GROUP2 = 1 THEN OUTPUT OUT.GROUP2;
     IF GROUP3 = 1 THEN OUTPUT OUT.GROUP3;
     IF GROUP4 = 1 THEN OUTPUT OUT.GROUP4;
     IF GROUP5 = 1 THEN OUTPUT OUT.GROUP5;
     IF GROUP6 = 1 THEN OUTPUT OUT.GROUP6;
     IF GROUP7 = 1 THEN OUTPUT OUT.GROUP7;
     OUTPUT OUT.GROUP8;
RUN;
```



```
* PROGRAM: CONVERT.SAS
* TASK:
          DOD HEALTH CARE SURVEY ANALYSIS (8687-330)
* PURPOSE: CONVERT ITEM RESPONSES TO PROPORTIONAL VALUES FOR CONSISTENCY
          WITH THE TOPS SURVEY.
* WRITTEN: October 2000 BY ERIC SCHONE
* MODIFIED: October 2000 BY KEITH RATHBUN, Added PROLOG. Also, added DSN
          to argument lists.
* INPUTS: 1) User-specified SAS Dataset
* OUTPUTS: 1) User-specified SAS Dataset with recoded values
* NOTES:
* 1) Arguments for the CONT1-CONT3 macros are as follows:
    a) SAS dataset name (dsn)
    b) Number of variables to be converted (num)
   c) List of variables to be converted (y)
^{\star} 2) These macros assume that the response items have already been
    converted/recoded to CAHPS scales.
*******************
* CONT1 - Convert big problem, small problem, not a problem questions to
* proportional values.
%macro cont1(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i = 1 to #
     if vars(i) ne . and vars(i) ne 3 then vars(i) = 0;
     if vars(i) = 3 then vars(i) = 1;
  end;
run;
%mend cont1;
******************
* CONT2 - Convert rating questions to proportional values.
%macro cont2(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to #
     if vars(i) ne . and vars(i) < 8 then vars(i) = 0;
     if vars(i) in (8,9,10) then vars(i) = 1;
  end;
run;
%mend cont2;
*******************
* CONT3 - Convert Never, Sometimes, Usually, Always questions to
        proportional values.
%macro cont3(dsn=, num=, y=);
data &dsn(drop=i);
  set &dsn;
  array vars &y;
  do i=1 to #
    if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
     vars(i) = vars(i) - 1;
  end;
run;
%mend cont3;
```

I.1.C Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\STEP2Q.SAS - Calculate CAHPS Adjusted Scores - Run Quarterly.

```
Project: DoD - Quarterly Adult Report Cards
  Program: STEP2Q.SAS
  Purpose: Generate risk-adjusted CAHPS Scores for Adult Report Card.
  Requires: Program STEP1Q.SAS must be run prior to running this program.
  The adult report card contains a large number of risk-adjusted scores.
  Some scores are calculated from responses to individual survey questions.
  Composite scores are calculated by combining scores from individual
  questions. The scores then are compared with external civilian
  benchmarks. The programming tasks involved in building the report
  card are:
        1) Preparing data for analyses
        2) Estimating risk adjustment models
       3) Calculating risk-adjusted values and variances
       4) Calculating benchmarks
       5) Comparing risk-adjusted values to benchmarks
          and hypothesis testing
  Previous Program: STEP1Q.SAS
  Modified: 1) 04/10/02 By Mike Scott, Updated variable names for 2002
            2) 07/11/02 By Mike Scott, Changed R00077 to R04075, since
               \ensuremath{\text{H02077}} (health status) is back and was recoded to \ensuremath{\text{R04075}}
               in STEP1Q.
             3) 03/21/03 By Mike Scott, Updated variable names for 2003
               survey.
             4) 03/24/04 By Mike Scott, Updated for 2004 survey.
             5) 09/24/2004 By Regina Gramss, Updated to use XTNEXREG instead of XREGION
               and to update for 03 2004 data.
            6) 01/25/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
               XTNEXREG to include service affiliation.
            7) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005
            8) 07/2005 By Regina Gramss, Updated for Q2 2005
            9) 10/2005 By Regina Gramss, Updated for Q3 2005
            10) 12/2005 By Regina Gramss, Updated for Q4 2005
           11) March 21, 2006 by Keith Rathbun, updated variable names
                for Q2 FY 2006.
           12) 07/2006 By Justin Oh, Updated for Q3 FY 2006
           13) Aug 24, 2006 by Justin Oh, changed overseas to 3 regions.
               Regions have been changed from 16 categories to 24.
           14) April 7, 2009 by Mike Rudacille, changed variable names to reflect
               modifications to beneficiary reports necessary for V4
           15) June 22, 2009 By Keith Rathbun, Change weight variable from
               FWRWT_V4 back to FWRWT.
           16) December 17, 2009 by Emma Ernst, updated Variables names for
               Q1FY2010.
           17) December 1, 2010 by Mike Rudacille, updated Variable names for Q1FY2011
           18) December 10, 2011 by Mike Rudacille, updated Variable names for Q1FY2012
           19) November 3, 2012 by Mike Rudacille, updated for handling of
               Joint Service facilities
           20) December 27, 2012 by Aimee Valenzuela, updated variable names for Q1FY2013
*********************
OPTIONS NOCENTER LS=132 PS=79 SOURCE NOOVP COMPRESS=YES;
LIBNAME IN1
               "DATA";
LIBNAME OUT
                "DATA";
LIBNAME OUT2
               "DATA\ADULTHATFILES";
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
/* RSG 02/2005 hard coded skelreg so data does not have to be copied from quarter to quarter*/
/* JSO 08/24/2006, Changed from 16 to 24 Regions */ /* MER 11/03/2012, Changed from 24 to 30
Regions */
```

```
DATA SKELREG (COMPRESS=NO);
  INPUT XSERVREG;
  DATALINES;
    1
    2
    3
    4
    5
    6
    7
    8
    9
    10
    11
    12
    13
    14
    15
    16
    17
    18
    19
    2.0
    21
    22
    23
    24
    25
    26
    27
    28
    29
    30
RIIN;
*************************
*******************
* Set GLOBAL parameters here.
*******************
**************************
^{\star} Set the number of Dependent variables to process.
* One does not need to start at 1, but the max must be >= min.
%LET MIN_VAR = 1;
%LET MAX_VAR = 16;
* Set the number of subgroups to process.
*************************
%LET MIN GRP = 1;
LET MAX_{GRP} = 8;
**************************
* These are expected to remain the same for a particular dependent
* variable run.
%LET WGT
         = FWRWT;
%LET IND_VAR1 = R13065;
%LET IND_VAR2 = ; * FEMALE;
%LET IND_VAR3 = ; * SREDHIGH;
%LET DEBUGFLG = 0; * Set to 1 if you want extra printout;
%LET TITL1 = Prime Enrollees;
%LET TITL2 = Enrollees w/military PCM;
%LET TITL3 = Enrollees w/civilian PCM;
%LET TITL4 = Nonenrollees;
%LET TITL5 = Active Duty;
%LET TITL6 = Active Duty Dependents;
%LET TITL7 = Retirees and Dependents;
```

```
%LET TITL8 = All Beneficiaries;
*******************
* GETTING NEEDED CARE.
***************************
%LET DEPVAR1 = R13029;
%LET DEPVAR2 = R13033;
*****************
* GETTING NEEDED CARE QUICKLY.
%LET DEPVAR3 = R13007;
%LET DEPVAR4 = R13010;
******************
* HOW WELL DOCTORS COMMUNICATE.
%LET DEPVAR5 = R13021;
%LET DEPVAR6 = R13022;
%LET DEPVAR7 = R13023;
%LET DEPVAR8 = R13024;
******************
* CUSTOMER SERVICE.
*****************************
%LET DEPVAR9 = R13041;
%LET DEPVAR10 = R13042;
* CLAIMS PROCESSING.
%LET DEPVAR11 = R13046;
%LET DEPVAR12 = R13047;
******************
* RATING ALL HEALTH CARE: 0 - 10.
***********************
%LET DEPVAR13 = R13018;
* RATING OF HEALTH PLAN: 0 - 10.
*****************************
%LET DEPVAR14 = R13048;
*************************
* RATING OF PERSONAL DR: 0 - 10.
************************
%LET DEPVAR15 = R13027;
*******************
* SPECIALITY CARE: 0 - 10.
             ******************
%LET DEPVAR16 = R13031;
%MACRO SCORE;
* use this macro for all groups;
* super region variables are to be used
%PUT *******************************
%PUT STARTING MACRO SCORE;
%PUT "GROUP = " GROUP&IGRP;
%PUT "TITLE
        = " &&DEPVAR&IVAR &&TITL&IGRP;
%PUT "DEP_VAR = " &&DEPVAR&IVAR;
%PUT "IND_VAR1 = " &IND_VAR1;
%PUT "IND_VAR2 = " &IND_VAR2;
%PUT "IND_VAR3 = " &IND_VAR3;
       = " &WGT;
%PUT "WGT
*____:
* If the current group is 1 use the skeleton files;
```

```
* else used the previous groups output file;
* The mrgfile is added to by each subgroup;
%LET RMRGFILE = OUT.R &&DEPVAR&IVAR;
%IF "&IGRP" = "1" %THEN %LET RMRGFILE = SKELREG;
* run regression using the region level variables;
* output a BETA file (1 record) and the subgroup;
* file with residuals attached (many records);
PROC REG DATA = GROUP&IGRP OUTEST=BETAS;
    TITLE2 "Regression Model for GROUP&igrp for regions";
    TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
    WEIGHT &WGT;
    %INCLUDE 'REGRSREG.INC';
    OUTPUT OUT = OUT2.H&IGRP&&DEPVAR&IVAR(KEEP=MPRID &WGT TMP_CELL
                      PRED&IGRP RESID&IGRP XSERVREG &&DEPVAR&IVAR)
              P = PRED&IGRP
             R = RESID&IGRP;
RUN;
* print of HCSDB file with the residuals and predicted values;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=OUT2.H&IGRP&&DEPVAR&IVAR (OBS=70);
        TITLE2 "OUT2.H&IGRP&&DEPVAR&IVAR: file with predicted values and the RESID&IGRP";
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
        VAR MPRID XSERVREG &&DEPVAR&IVAR RESID&IGRP PRED&IGRP;
   RUN;
   PROC PRINT DATA=BETAS;
         TITLE2 "BETAS: file with coefficients";
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RIIN;
%END;
*-----;
*---- get the standard err/variance ----;
*----;
%LET DEP = &&DEPVAR&IVAR;
%R SUDAAN(OUT2.H&IGRP&&DEPVAR&IVAR);
* calculate prelim adjusted scores for the risk-adjusters;
* merge adjuster means with the adjuster coefficients;
* then sum their products. Finally add in the intercept;
DATA ADJUST;
   SET MEANFILE;
   IF N = 1 THEN SET BETAS(DROP = TYPE );
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';
   DO I = 1 TO DIM(COEFFS);
      IF COEFFS(I) = . THEN COEFFS(I) = 0;
IF MEANS(I) = . THEN MEANS(I) = 0;
      ADJUST + ( COEFFS(I) * MEANS(I) );
   ADJUST = ADJUST + INTERCEPT;
RUN;
* add the region coefficients to the adjusted value from above;
* output one record per region with the region;
* level adjusted scores;
DATA COEFFREG(KEEP=XSERVREG NEWADJST);
   SET ADJUST;
    %INCLUDE 'REGARRAY.INC';
   LENGTH NAME $8;
   DO I=1 TO DIM(REGRHS);
       CALL VNAME (REGRHS (I), NAME);
      XSERVREG=INPUT(SUBSTR(NAME, 4, 2), 2.);
       IF REGRHS(I) = . THEN REGRHS(I) = 0;
      NEWADJST=ADJUST + REGRHS(I);
```

```
OUTPUT;
   END;
RUN;
* sum of wgts for each region;
PROC MEANS DATA=GROUP&IGRP NWAY NOPRINT ;
 CLASS XSERVREG;
 VAR &WGT;
 OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT&IGRP SUM=REGWGT&IGRP;
* merge the COEFFREG file with the region;
* adjusted scores to the region level total weight;
* merge by the region. Creates a region level;
* file with the total sample weight of the region;
DATA COEFFREG;
     MERGE COEFFREG(IN=IN1)
                            KEEP=XSERVREG REGCNT&IGRP REGWGT&IGRP);
            REG_WGTS(IN=IN2
      BY XSERVREG;
      IF IN1;
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=MEANFILE;
         TITLE2 'Print of MEANFILE';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RIIN:
    PROC PRINT DATA=ADJUST;
         TITLE2 'Print of ADJUST';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RIIN;
   PROC PRINT DATA=COEFFREG;
         TITLE2 'Print of COEFFREG: Region Adjusted Scores';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
   PROC PRINT DATA=REG_WGTS;
         TITLE2 'Print of REG_WGTS: Region Area Sum of WGTS';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
   PROC PRINT DATA=COEFFREG;
         TITLE2 'Print of COEFFREG: Regions Adjusted Scores - with sum of wgts and region';
         TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
   RUN;
%END;
* Calculate region level adjusted scores from the;
* region level adjusted scores in COEFFREG;
PROC MEANS DATA=COEFFREG NWAY NOPRINT;
 WEIGHT REGWGT&IGRP;
 CLASS XSERVREG;
        NEWADJST;
 OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
%IF &DEBUGFLG > 0 %THEN %DO;
   PROC PRINT DATA=REGFILE1;
       TITLE2 'Print of REGFILE1: Region Scores';
        TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RUN;
%END;
* merge the previous groups region results (if any);
* with the region level std errs and the region;
* level results from catchment results collapsed to region;
```

```
DATA OUT.R_&&DEPVAR&IVAR;
    MERGE &RMRGFILE(IN=INS)
          R&IGRP&&DEPVAR&IVAR
          REG WGTS(KEEP = REGCNT&IGRP REGWGT&IGRP XSERVREG)
          REGFILE1(KEEP = ADJ&IGRP XSERVREG);
     BY XSERVREG;
    DEPENDNT = "&&DEPVAR&IVAR";
     IF INS;
RUN;
* merge the previous groups regional results (if any);
* with the region level std err and the region;
* level results from the current group/dependent var;
DATA OUT.R_&&DEPVAR&IVAR;
   MERGE OUT.R_&&DEPVAR&IVAR(IN=INS)
         R&IGRP&&DEPVAR&IVAR /*KRR - removed perm dataset ref to OUT2 */
         REG_WGTS
         REGFILE1;
   BY XSERVREG;
   DEPENDNT = "&&DEPVAR&IVAR";
   TF TNS:
RUN;
PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
    TITLE2 "Print of XSERVREG variables in &&DEPVAR&IVAR";
     TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
RUN;
%MEND SCORE;
%MACRO MAKE INC;
************************
* creates include files for later Procs;
* Needs to be run each time. Called
* in the outer (beneficiary loop).
* I chose this method because it was
* clearer(to me at least).
* This macro needs to be run once per ;
* Dep var per subgroup.
*****************************
* Drop records where the dependent var is missing;
* Drop records with missing catchment or region values;
 DATA GROUP&IGRP;
      SET IN1.GROUP&IGRP;
      IF &&DEPVAR&IVAR NOT = .;
 RIIN;
DATA _NULL_;
     SET GROUP&IGRP END = EOF;
     IF &&DEPVAR&IVAR NOT = .;
     ARRAY AGECNT(7) 8 aCNT1 - aCNT7;
     RETAIN AGECNT 0;
     RETAIN CNT 0;
     ARRAY AGENAM(7) $8 AGENAM1 - AGENAM7;
     ARRAY AGENAMX(7) $8 AGENAMX1 - AGENAMX7;
     RETAIN AGENAM;
     RETAIN AGENAMX;
     ARRAY REGCNT(30) 8 REGCNT01- REGCNT30; /*JSO 08/24/2006, Changed from 16 to 24*/
                                              /*MER 11/03/2012, Changed from 24 to 30*/
     RETAIN CATCNT 0;
     RETAIN REGCNT 0;
      * create a name array for the parent age dummies;
     IF _N_ = 1 THEN DO;
        AGENAM(1) = "AGE1824";
        AGENAM(2) = "AGE2534";
        AGENAM(3) = "AGE3544";
        AGENAM(4) = "AGE4554";
        AGENAM(5) = "AGE5564";
        AGENAM(6) = "AGE6574";
        AGENAM(7) = "AGE75UP";
      END;
```

```
* total record count;
      CNT + 1;
      * count records in each age group;
      * we will use only age groups with more;
      * than 2 obs;
      IF AGE1824 = 1 THEN AGECNT(1) + 1;
      IF AGE2534 = 1 THEN AGECNT(2) + 1;
IF AGE3544 = 1 THEN AGECNT(3) + 1;
      IF AGE4554 = 1 THEN AGECNT(4) + 1;
      IF AGE5564 = 1 THEN AGECNT(5) + 1;
      IF AGE6574 = 1 THEN AGECNT(6) + 1;
      IF AGE75UP = 1 THEN AGECNT(7) + 1;
      * count records in each XSERVREG group;
      * we will only use XSERVREGs with more than than 2 obs;
      * I am using the region value as the subscript;
      * to make the code simpler and more readable;
      IF 1<= XSERVREG <= 30 THEN DO; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24
to 30*/
         REGCNT(XSERVREG) = REGCNT(XSERVREG) + 1;
      END;
      IF EOF THEN GOTO ENDFILE;
      RETURN;
ENDFILE:
     * create a title common to all procs in the current group;
     TITLE " &&DEPVAR&IVAR &&TITL&IGRP";
     * display counts in the log;
     %IF &DEBUGFLG > 0 %THEN %DO;
        PUT ' ';
        PUT 'AT EOF: ';
        PUT "TOTAL CNT = "
        PUT AGENAM(1) " " AGECNT(1)=;
PUT AGENAM(2) " " AGECNT(2)=;
        PUT AGENAM(3) " " AGECNT(3)=;
        PUT AGENAM(4) " " AGECNT(4)=;
PUT AGENAM(5) " " AGECNT(5)=;
        PUT AGENAM(6) " " AGECNT(6)=;
        PUT AGENAM(7) " " AGECNT(7)=;
        PUT " ";
        DO I = 1 TO 30; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/
           IF(REGCNT(I) > 0) THEN DO;
               PUT 'REG' I Z2. REGCNT(I) 6.;
           END;
        END;
        PUT ' ';
      %END;
             *** of debug test;
     * This include is for the regression using regions;
     * in this case we drop the last XSERVREG;
     FILE 'REGRSREG.INC';
     PUT @6 "MODEL &&DEPVAR&IVAR = ";
     IF "&IND_VAR1" NE "" THEN PUT @12 "&IND_VAR1"; /* KRR - only output when present */
     IF "&IND_VAR2" NE "" THEN PUT @12 "&IND_VAR2"; /* KRR - only output when present */
IF "&IND_VAR3" NE "" THEN PUT @12 "&IND_VAR3"; /* KRR - only output when present */
     CNT2 = 0;
     * setup an array of those age groups that have > 1 obs;
     DO I = 1 TO 7;
        IF AGECNT(I) > 1 THEN DO;
            CNT2 + 1;
            AGENAMX(CNT2) = AGENAM(I);
        END;
     END;
```

```
* now drop the last category to create;
* an omitted category which is required;
* to solve the regression properly;
DO I = 1 TO CNT2-1;
  PUT @12 AGENAMX(I);
END;
* ditto for the catchment areas with > 0 obs;
* in this case we drop the the first USABLE category;
* this is not consistent with the catchment area code;
* but this is the method that Portia used;
FIRST = 0; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/ DO I = 1 TO 30; * skip the 1st region with 1+ obs;
   IF REGCNT(I) > 0 THEN DO;
     IF FIRST = 1 THEN PUT @12 'REG' I Z2.;
     FIRST = 1;
  END;
END;
PUT @11 ';';
*----;
* now create the complete var statement;
* for the Proc MEANS used to replace the;
* independent variables missing values;
* we assume the age groups will always be used;
* These are also called the RISK FACTORS;
FILE 'RISKVARS.INC';
PUT @10 "VAR";
DO I = 1 TO CNT2;
  PUT @12 AGENAMX(I);
* not all the other dependent variables will be used;
* only write them out if they are not null;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR1";
END;
IF "&IND_VAR2" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR2";
END;
IF "&IND_VAR3" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR3";
PUT @11 ';';
*----;
* create an ARRAY statement of the desired risk factors;
* called adjusters in the specs and in the code;
FILE 'RISKARRY.INC';
PUT @10 "ARRAY COEFFS(*) $8";
DO I = 1 TO CNT2;
 PUT @12 AGENAMX(I);
END;
CNT3 = 0;
IF "&IND_VAR1" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR1";
END;
IF "&IND_VAR2" NE "" THEN DO;
   CNT3 + 1;
   PUT @12 "&IND_VAR2";
END;
```

```
IF "&IND_VAR3" NE "" THEN DO;
        CNT3 + 1;
        PUT @12 "&IND_VAR3";
    PUT @11 ';';
    * create an ARRAY of mean names for the output;
    * from a proc MEANS of the Risk Factors in RISKARRY;
    FILE 'RISKMEAN.INC';
    IND_CNT = CNT2 + CNT3;
    PUT @6 "ARRAY MEANS(*) $8";
    DO I = 1 TO IND_CNT;
      PUT @12 "MEAN" I Z2.;
    END;
    PUT @11 ';';
   ____;
   create the equivalent of the following statement;
   OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN=MEAN1-MEAN&MEAN_CNT;
    FILE 'MEANFILE.INC';
    PUT @6 "OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = ";
    DO I = 1 TO IND_CNT;
     PUT @12 "MEAN" I Z2.;
    END;
    PUT @11 ';';
    *-----;
    * create a super region area array;
    * with at least ONE obs;
    FILE 'REGARRAY.INC';
    PUT @10 "ARRAY REGRHS(*) $8";
    DO I = 1 \text{ TO } 30;
                               /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to
30*/
       IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
         PUT @16 'REG' I Z2.;
       END;
    END;
    PUT @11 ';';
 * Create the means of the adjuster variables;
^{\star} They will be used to replace missing adjuster variables;
 * calculate weighted means;
PROC MEANS DATA=GROUP&IGRP;
  WEIGHT &WGT;
  %INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN;
%IF &DEBUGFLG > 0 %THEN %DO;
  PROC PRINT DATA=MEANFILE;
       TITLE2 "Print of MEANFILE for Risk Adjuster variables";
       TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  DIIM:
%END;
DATA GROUP&IGRP;
    SET GROUP&IGRP;
    IF _N_ = 1 THEN SET MEANFILE;
    %INCLUDE 'RISKARRY.INC';
    %INCLUDE 'RISKMEAN.INC';
    DO I = 1 TO DIM(COEFFS);
       IF COEFFS(I) = . THEN DO;
         COEFFS(I) = MEANS(I);
       END;
    END;
/* PROC MEANS DATA=out.group8;
  WEIGHT &WGT;
```

```
%INCLUDE 'RISKVARS.INC';
  %INCLUDE 'MEANFILE.INC';
RUN; */
%MEND MAKE INC;
%MACRO R_SUDAAN(INFILE);
* Use this macro to create standard err (variances)
* for XSERVREGs.
*****************
%PUT STARTING MACRO R_SUDAAN (XSERVREG);
%PUT ***********************************
DATA &INFILE;
  SET &INFILE;
  IF 1<= XSERVREG <= 30; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/
* Sort data by TMP_CELL;
PROC SORT DATA=&INFILE;
 BY TMP_CELL;
RUN;
%IF &DEBUGFLG > 5 %THEN %DO;
  PROC PRINT DATA=&INFILE(OBS=5);
       TITLE2 'Print of the input file to SUDAAN (XSERVREG)';
       TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
  RIIN:
%END;
* Calculate values for super regions;
PROC DESCRIPT DATA=&INFILE DESIGN=STRWR NOPRINT;
  WEIGHT &WGT;
  SETENV DECWIDTH=4;
  NEST TMP_CELL / missunit;
  VAR RESID&IGRP;
  TABLES XSERVREG;
  SUBGROUP XSERVREG;
  LEVELS 30; /*JSO 08/24/2006, Changed from 16 to 24*/ /*MER 11/3/12 24 to 30*/
  OUTPUT SEMEAN
       / REPLACE TABLECELL=DEFAULT
         FILENAME=RS&DEP;
  RIIN;
  DATA R&IGRP&&DEPVAR&IVAR;
       SET RS&DEP;
       KEEP XSERVREG SEMEAN;
       IF SEMEAN NE .;
       RENAME SEMEAN = SEMEAN&IGRP;
  RUN;
  PROC PRINT DATA=R&IGRP&&DEPVAR&IVAR;
     TITLE2 "Print XSERVREG DESCRIPT DATA=R&IGRP&&DEPVAR&IVAR";
     TITLE3 "Beneficiary group&igrp: &&TITL&IGRP";
%MEND R_SUDAAN;
%* call the macros;
%MACRO MAINLOOP(MIN_VAR,MAX_VAR,MIN_GRP,MAX_GRP);
   %* loop over the set of dependent variables;
      %DO IVAR = &MIN_VAR %TO &MAX_VAR;
         %DO IGRP = &MIN_GRP %TO &MAX_GRP;
           %MAKE_INC;
           %SCORE;
```

%END; %END;

%MEND;

%MAINLOOP(&MIN_VAR,&MAX_VAR,&MIN_GRP,&MAX_GRP);

$I.1.D \qquad Q3FY2013 \ PROGRAMS \ Purchased Report Cards \ CAHPS_Adult Q3FY2013 \ REGRSREG. INC-Include file1 in step 2q. sas.$

MODEL R13031 = R13065 AGE1824 AGE2534 AGE3544 AGE4554 REG02 REG03 REG04 REG05 REG06 REG07 REG08 REG09 REG11 REG12 REG13 REG14 REG16 REG17 REG18 REG19 REG21 REG22 REG23 REG24 REG26 REG28 REG29

$I.1.E \qquad Q3FY2013 \ | PROGRAMS \ | Purchased Report Cards \ | CAHPS_Adult Q3FY2013 \ | RISKARRY.INC-Include file 2 in step 2 q. sas.$

```
ARRAY COEFFS(*) $8
AGE1824
AGE2534
AGE3544
AGE4554
AGE5564
R13065
```

$I.1.F Q3FY2013 \ PROGRAMS \ Purchased Report Cards \ CAHPS_Adult Q3FY2013 \ RISKMEAN. INC-Include file3 in step 2q. sas.$

```
ARRAY MEANS(*) $8
MEAN01
MEAN02
MEAN03
MEAN04
MEAN05
MEAN06
;
```

$I.1.G \qquad Q3FY2013 \ PROGRAMS \ Purchased Report Cards \ CAHPS_Adult Q3FY2013 \ REGARRAY. INC-Include file4 in step 2q.sas.$

```
ARRAY REGRHS(*) $8
      REG01
      REG02
      REG03
      REG04
      REG05
      REG06
      REG07
      REG08
      REG09
      REG11
      REG12
      REG13
      REG14
      REG16
      REG17
      REG18
      REG19
      REG21
      REG22
      REG23
      REG24
      REG26
      REG28
      REG29
```

$I.1.H \qquad Q3FY2013 \ PROGRAMS \ Purchased Report Cards \ CAHPS_Adult Q3FY2013 \ RISKVARS. INC-Include file5 in step 2q. sas.$

VAR
 AGE1824
 AGE2534
 AGE3544
 AGE4554
 AGE5564
 R13065
;

$I.1.I \qquad Q3FY2013 \ | PROGRAMS \ | Purchased Report Cards \ | CAHPS_Adult Q3FY2013 \ | MEANFILE.INC-Include file6 in step 2q.sas.$

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN = MEAN01 MEAN02 MEAN03 MEAN04 MEAN05 MEAN06;
```

I.1.J Q3FY2013\PROGRAMS\PurchasedReportCards\CAHPS_AdultQ3FY2013\COMPOSIT.SAS - Calculate CAHPS Composite Scores - Run Quarterly.

```
* Project: DoD - Quarterly Adult Report Cards
* Program: COMPOSIT.SAS
* Purpose: Generate Quarterly Adult Report Card composite scores
* Requires: Programs STEP1Q.SAS and STEP2Q.SAS must be run prior
           to this program.
* Modified: 1) 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
              accommodate the move of ALLSCORE.SAS functionality into the
              STEP20.SAS program.
           2) 01/08/2002 By Daniele Beahm, Changed versions in libname statements
              so program can be run with SAS v8 and still produce SAS v612 datasets.
           3) 04/10/2002 By Mike Scott, Updated variable names for 2002
              survey.
           4) 03/21/2003 By Mike Scott, Updated variable names for 2003
              survey.
           5) 03/24/2004 By Mike Scott, Updated for 2004.
           6) 06/15/2004 By Regina Gramss, Update for Q2, added in
              codes to compensate for any negative trend and to
              print out the number of nonmissing data producing the
              negative trend - those equal to or more than 30 nonmissing
              data need to be further evaluated.
           7) 09/2004 By Regina Gramss, Update for Q3, added in codes to
              use XTNEXREG field instead of XREGION.
           8) 01/2005 By Regina Gramss, Changed codes to use XSERVREG instead of
              XTNEXREG, to incorporate service affliliation.
           9) 04/2005 By Regina Gramss, Updated field names from 2004 to 2005.
          10) 01/31/2006 By Regina Gramss, deleted following lines for "data r_&var1":
              "%if &i~=8 %then %do" (keep set statement then delete the following:)
               "%end
               %else %do
               set in2.h5&var1(rename=(resid5=r_&var1)) in2.h6&var1(rename=(resid6=r_&var1))
in2.h7&var1(rename=(resid7=r_&var1))
               %end"
          11) 03/21/2006 By Keith Rathbun, Updated variable names for 2003
              survey.
          12) 04/30/2008 By Justin Oh, Added Eric's upcase command to _name_ on line 204
          13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
              modifications to beneficiary reports necessary for V4
          14) June 22, 2009 By Keith Rathbun, Change weight variable from
              FWRWT_V4 back to FWRWT.
          15) December 17, 2009 By Emma Ernst, updated variable names for Q1FY2010
          16) December 1, 2010 By Mike Rudacille, updated variable names for Q1FY2011
          17) December 27, 2012 By Aimee Valenzuela, updated variable names for Q1FY2013
***************************
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES NOFMTERR;
            "data";
libname in
               "data\adulthatfiles";
libname in2
libname out
               "data";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
%LET WGT = FWRWT;
%MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,QCOUNT=);
 DATA _NULL_;
  %IF "&TYPE" = "R" %THEN %DO;
      CALL SYMPUT ('BYVAR', 'XSERVREG');
   %END; %ELSE
  %IF "&TYPE" = "C" %THEN %DO;
      CALL SYMPUT ('BYVAR', 'CACSMPL');
  %END;
 ************
 * Create a Composite Score
DATA NULL;
    FILE 'FILES.INC';
```

```
PUT @6 'SET';
    IF "&VAR1" NE '' THEN PUT @8 "IN.&TYPE._&VAR1";
    IF "&VAR2" NE '' THEN PUT @8 "IN.&TYPE._&VAR2";
    IF "&VAR3" NE '' THEN PUT @8 "IN.&TYPE._&VAR3";
    IF "&VAR4" NE '' THEN PUT @8 "IN.&TYPE._&VAR4";
    PUT @8 ';';
RUN;
DATA COMPOS&COMPOS;
    LENGTH DEPENDNT $ 8;
     %INCLUDE 'FILES.INC';
     DEPENDNT = "&TYPE.COMPOS&COMPOS";
RIIN;
PROC SORT DATA=COMPOS&COMPOS;
     BY &BYVAR;
PROC PRINT DATA=COMPOS&COMPOS(OBS=60);
     TITLE "Print of COMPOS&COMPOS after sort";
DATA COMPOS&COMPOS;
     SET COMPOS&COMPOS;
     BY &BYVAR;
  %IF "&TYPE" = "R" %THEN %DO;
      ARRAY N(*) REGCNT1 - REGCNT8;
      ARRAY W(*) REGWGT1 - REGWGT8;
      ARRAY TN(*) TOTCNT1 - TOTCNT8;
      ARRAY TW(*) TOTWGT1 - TOTWGT8;
  %END; %ELSE
  %IF "&TYPE" = "C" %THEN %DO;
      ARRAY N(*) CATCNT1 - CATCNT8;
ARRAY W(*) CATWGT1 - CATWGT8;
      ARRAY TN(*) TOTCNT1 - TOTCNT8;
      ARRAY TW(*) TOTWGT1 - TOTWGT8;
  %END;
                     ADJ1 - ADJ8;
     ARRAY ADJ(*)
     ARRAY TOTADJ(*) TOTADJ1 - TOTADJ8;
     ARRAY AVGADJ(*) AVJADJ1 - AVJADJ8;
     RETAIN TOTADJ TN TW;
     RETAIN AVGADJ;
     IF FIRST.&BYVAR THEN DO;
        DO I = 1 TO DIM(TOTADJ);
          TOTADJ(I) = 0; TN(I)=0; TW(I)=0;
        END;
     END; DROP I;
     PUT ' ';
     PUT ' --- STARTING LOOP1: ' &BYVAR=;
     DO I = 1 TO DIM(TOTADJ);
        PUT I= ADJ(I)=;
        IF ADJ(I) NE . THEN DO;
           TOTADJ(I) = TOTADJ(I) + ADJ(I);
           TN(I)=TN(I)+N(I);
           TW(I)=TW(I)+W(I);
        END;
        PUT I= ADJ(I)= TOTADJ(I)=;
     END;
     PUT ' ';
     PUT ' --- STARTING LOOP2: ' &BYVAR=;
     IF LAST.&BYVAR THEN DO;
        DO I = 1 TO DIM(TOTADJ);
           PUT I= ADJ(I)= TOTADJ(I)= AVGADJ(I)=;
           AVGADJ(I) = TOTADJ(I)/&QCOUNT;
           adj(i)=avgadj(i);
           N(I) = TN(I) / \&QCOUNT;
           W(I) = TW(I) / \&QCOUNT;
        END;
```

```
OUTPUT;
      END;
RUN;
%do i=1 %to 8;
/* Collect Standard Errors and residuals from variables in composite */
%if &type=R|(&i=1|&i=2|&i>4) %then %do;
%if &varl~= %then %do;
%let n=r_&var1;
%let m=s_&var1;
data s_&var1(rename=(semean&i=s_&var1));
set in.&type._&var1(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var1;
set in2.h&i.&var1(rename=(resid&i=r_&var1));
proc sort data=r_&var1; by mprid;
%end;
%if &var2~= %then %do;
%let n=%str(&n r_&var2);
%let m=%str(&m s_&var2);
data s_&var2(rename=(semean&i=s_&var2));
set in.&type._&var2(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var2;
set in2.h&i.&var2(rename=(resid&i=r_&var2));
proc sort data=r_&var2; by mprid;
%if &var3~= %then %do;
%let n=%str(&n r_&var3);
data s_&var3(rename=(semean&i=s_&var3));
set in.&type._&var3(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var3;
set in2.h&i.&var3(rename=(resid&i=r_&var3));
proc sort data=r_&var3; by mprid;
%let m=%str(&m s_&var3); %end;
%if &var4~= %then %do;
%let n=%str(&n r_&var4);
data s_&var4(rename=(semean&i=s_&var4));
set in.&type._&var4(keep=semean&i &byvar);
proc sort; by &byvar;
data r_&var4;
set in2.h&i.&var4(rename=(resid&i=r_&var4));
%let m=%str(&m s_&var4);
proc sort data=r_&var4; by mprid;
%end;
/* Merge residual files and estimate correlations */
data infile;
merge &n; by mprid;
proc sort; by &byvar;
proc corr outp=outf noprint;
by &byvar;
var &n;
weight &WGT.;
data outf;
set outf; by &byvar;
where _type_='CORR';
/* sum standard error of a row variable times correlation times standard error of each column
variable, then sum sums and take square root, divide by number of variables */
data final;
merge &m outf; by &byvar;
data final;
set final; by &byvar;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
%do j=1 %to &qcount;
if upcase(_name_) = upcase("R_&&var&j") then
sde=sum(sde,r_val(i)*s_&&var&j*s_val(i));
```

```
%end;
end;
data sefin&compos._&i ERROR;
set final;
by &byvar;
if first.&byvar then tv=0;
t.v+sde;
if last.&byvar then do;
if tv \ge 0 then sde&i=(tv**.5)/&qcount; /* RSG 06/22/2004 change to only do the power
calculation if the tv value is nonnegative*/
else if tv < 0 then do; /* RSG 06/22/2004 those with negative trend is set aside to print
out*/
       output error;
                                               and determine whether it is from nonmissing
data of 30 or more*/
       sde&i=.;
 end;
output sefin&compos._&i;
end;
run;
/* RSG 06/22/2004 - count how many nonmissing values are in the trend data
       to determine whether the negative trend in above datastep
       (tv < 0) is something to be concerned about */
proc means data=infile noprint;
by &byvar;
var &n;
output out=miss (drop=_type_ _freq_) n=;
data error2;
merge error(in=a drop=&n) miss(in=b);
by &byvar;
if a;
run;
proc print data=error2; /* RSG 06/22/2004 print out negative trend data and count of nonmissing
data*/
var &byvar tv &n;
title "ERROR - NEGAVTIVE TREND FOR &N IN GROUP=&I. AND COMPOSE=&COMPOS.";
run;
title ' '; /** RSG 06/22/2004 - BLANK OUT TITLE FOR NEXT LOOP **/
%if &i=1 %then %do;
data sefin&compos;
set sefin&compos._1(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%else %do;
data sefin&compos;
merge sefin&compos sefin&compos._&i(keep=&byvar sde&i); by &byvar;
rename sde&i=semean&i;
run;
%end;
%end;
%end;
data out. & type.compos & compos;
merge compos&compos sefin&compos; by &byvar;
run;
PROC PRINT DATA=OUT.&TYPE.COMPOS&COMPOS;
     TITLE1 COMPTITL;
RUN;
%MEND COMPOSIT;
*----;
       set the parameters here
*----;
* Call the macro for each composite ;
************
%COMPOSIT (type=R,compos=1,var1=R13029,var2=R13033,qcount=2);
%COMPOSIT (type=R,compos=2,var1=R13007,var2=R13010,qcount=2);
%COMPOSIT (type=R,compos=3,var1=R13021,var2=R13022,var3=R13023,var4=R13024,qcount=4);
```

```
%COMPOSIT (type=R,compos=4,var1=R13041,var2=R13042,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R13046,var2=R13047,qcount=2);
```


SET IN.R_R13046 IN.R_R13047

I.2.A Q3FY2013\PROGRAMS\PurchasedLOADWEB\CAHPS_AdultQ3FY2013\LOADCAHQ.SAS - Convert CAHPS Scores into WEB layout - Run Quarterly.

```
* PROGRAM: LOADCAHQ.SAS
* TASK:
            Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Convert the CAHPS Scores Database into the WEB layout
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.SAS.
 INPUTS:
            1) CAHPS Individual and Composite data sets with adjusted scores
            1) LOADCAHQ.sas7bdat - Combined CAHPS Scores Database in WEB layout
 OUTPUT:
 INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
               and composite data sets
* NOTES:
* 1) The following steps need to be run prior to this program:
     - STEP1Q.SAS - Recode questions and generate group files
- STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
     - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
 2) The output file (LOADCAHQ.sas7bdat) will be run through the
    MAKEHTMQ.SAS program to generate the WEB pages.
 MODIFIED:
  1) 04/10/2002 BY MIKE SCOTT, Updated variable names for 2002 survey.
  2) 03/21/2003 BY MIKE SCOTT, Updated variable names for 2003 survey.
   3) 06/25/2003 BY MIKE SCOTT, Updated for Q2 2003.
  4) 07/03/2003 BY MIKE SCOTT, Added TIMEPD variable to be set to the period
      or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
      setting to 'Composite'.
  5) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003.
  6) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
  7) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
   8) 06/15/2004 BY REGINA GRAMSS, Updated for q2 2004.
  9) 09/2004 BY REGINA GRAMSS, Updated for Q3 2004, changed all reference
      to XREGION to XTNEXREG.
^{\star} 10) 01/2005 BY REGINA GRAMSS, Changed XTNEXREG to XSERVREG to include
      service affiliation into regions.
* 11) 04/2005 BY REGINA GRAMSS, Updated 2004 field names for 2005.
* 12) 07/2005 BY REGINA GRAMSS, updated for Q2 2005.
* 13) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005 * 14) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
* 15) 03/21/2006 BY KEITH RATHBUN, Updated variable names for 2006 survey.
* 16) 07/12/2006 by Justin Oh, updated for Q3 FY 2006
* 17) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3
      Changed Libname IN for Q4FY2006.
* 18) 12/15/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q4
      Changed Libname IN for Q1FY2007.
* 19) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1
      Changed Libname IN for Q2FY2007.
 20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
      ReportCards OR PurchasedReportCards.
 21) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3
      Changed Libname IN for Q4FY2007.
  22) 01/10/2008 BY KEITH RATHBUN, Updated variable names for 2008 survey.
 23) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1
      Changed Libname IN for Q2FY2008.
 24) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2
      Changed Libname IN for Q3FY2008.
 25) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3
      Changed Libname IN for Q4FY2008.
 26) 04/11/2009 by Mike Rudacille - Changed variable names to reflect
      modifications to beneficiary reports necessary for V4
 27) 06/22/2009 by Keith Rathbun - Updated BENTYPE composite year to 2009 Q2
      Changed Libname IN for Q3FY2009.
* 28) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3
```

```
Changed Libname IN for Q4FY2009.
* 29) 10/17/2009 by Emma Ernst- Updated variables for Q12010
     Changed Libname IN for Q1FY2010.
 30) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1
    Changed Libname IN for Q2FY2010.
 31) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2
    Changed Libname IN for Q3FY2010.
* 32) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3
    Changed Libname IN for Q4FY2010.
\star 33) 12/01/2010 by Mike Rudacille - Updated variables for Q12011
    Updated BENTYPE composite year to 2010 Q4
    Changed Libname IN for Q1FY2011.
* 34) 02/24/2010 by Mike Rudacille - Updated BENTYPE composite year to 2011 Q1
    Changed Libname IN for Q2FY2011.
\star 35) 12/10/2011 by Mike Rudacille - Updated variables for Q12012
    Updated BENTYPE composite year to 2011 Q4
    Changed Libname IN for Q1FY2012
^{\star} 36) 3/5/2012 by Amanda Kudis - Changed libname IN and Year Marco Var for Q2.
* 37) 6/20/2012 by Amanda Kuis - Updated for Q3FY2012.
 38) 8/23/2012 by Christine Cheu - Updated for Q4FY2012.
* 39) 12/27/2012 by Aimee Valenzuela - Updated for Q1FY2013.
* 40) 03/23/2013 by Mike Rudacille - Updated for Q2FY2013.
*****
* Assign data libraries and options
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = PurchasedReportCards;
LIBNAME IN "..\.\&RCTYPE\CAHPS_ADULTQ3FY2013\DATA"; LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
*************************
* Load Format definitions for CAHPS Individual and composite data sets.
***********************
%INCLUDE "..\LOADCAHQ.INC";
******************
*******************
* Process Macro Input Parameters:
* 1) QUESTION = Variable Question Name (DSN).
   - For individual Questions it is the variable name
    - For composite Questions it is called xCOMPOSn
     where n = a predefined composite # and
          x = R (Region) or C (Catchment)
* 2) TYPE = Type of Score (COMPOSITE or INDIVIDUAL)
* 3) REGCAT = Region/Catchment Area
*************************
%MACRO PROCESS(QUESTION=,TYPE=);
***************
* Assign value for BENTYPE composite year
*************************
%LET YEAR = "2013 Q2"; * Note that this is based on Calendar Year here;
*******************
* Assign prefix for weighted/unweighted count variables.
* Unweighted counts is REGCNTn where n=group number.
* Weighted counts is REGWGTn where n=group number.
******************************
%LET PREFIX = REG;
************************
* Convert the CAHPS individual Scores Record into WEB layout.
* There are 8 logical records (adjusted scores) per physical record
```

```
*************************
DATA &OUESTION;
 SET IN. & QUESTION;
 LENGTH MAJGRP $30;
  LENGTH REGION $30; **RSG 01/2005 - Changed format to be large enough to include service
affiliation;
 LENGTH REGCAT $30; **MER 11/07/2012 - Changed REGION and REGCAT to be large enough for Joint
Services;
 LENGTH BENTYPE $50;
 LENGTH BENEFIT $34;
 LENGTH TIMEPD $35; **MJS 07/03/03 Added line;
  ********************
  * Assign Region
  *************************
  REGION = PUT(XSERVREG, SERVREGF.);
  * Assign benefit and benefit type
  IF "&TYPE" = "INDIVIDUAL" THEN DO;
    IF DEPENDNT IN("R13018","R13048","R13027","R13031") THEN
     BENTYPE = "Composite"; ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR,$BENTYPF.);
    ELSE
     BENTYPE = PUT(DEPENDNT, $BENTYPF.);
    BENEFIT = PUT(DEPENDNT, $BENEF.);
    TIMEPD = PUT(&YEAR, $BENTYPF.); ***MJS 07/03/03 Added line;
  END;
  ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
    BENTYPE = "Composite"; ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR, $BENTYPF.);
    BENEFIT = PUT(DEPENDNT, $BENEF.);
                          ***MJS 07/03/03 Added line;
   TIMEPD = PUT(&YEAR,$BENTYPF.);
  END;
  ELSE PUT "ERROR - Invalid TYPE = &TYPE";
  ******************
  * For now, Initialize Significance test to zero.
  ******************
  SIG = 0;
  ***********************
  * Assign Region
  REGCAT = PUT(XSERVREG, SERVREGF.);
  ******************
  * 1 = Prime Enrollees
  MAJGRP = PUT(1,MAJGRPF.);
  SCORE = ADJ1;
  SEMEAN = SEMEAN1;
  N_OBS = &PREFIX.CNT1;
  N_WGT = &PREFIX.WGT1;
 OUTPUT;
  *******************
  * 2 = Enrollees with Military PCM
  ****************
  MAJGRP = PUT(2,MAJGRPF.);
  SCORE = ADJ2;
  SEMEAN = SEMEAN2;
  N_OBS = &PREFIX.CNT2;
 N_WGT = &PREFIX.WGT2;
 OUTPUT;
  ******************
  * 3 = Enrollees with Civilian PCM
  MAJGRP = PUT(3,MAJGRPF.);
  SCORE = ADJ3;
  SEMEAN = SEMEAN3;
 N_OBS = &PREFIX.CNT3;
 N_WGT = &PREFIX.WGT3;
  OUTPUT;
```

```
******************
  * 4 = Non-enrolled Beneficiaries
                      ******************************
 MAJGRP = PUT(4, MAJGRPF.);
 SCORE = ADJ4;
 SEMEAN = SEMEAN4;
 N_OBS = &PREFIX.CNT4;
 N_WGT = &PREFIX.WGT4;
 OUTPUT;
  ********************
 * 5 = Active Duty
  MAJGRP = PUT(5,MAJGRPF.);
 SCORE = ADJ5;
 SEMEAN = SEMEAN5;
 N OBS = &PREFIX.CNT5;
 N_WGT = &PREFIX.WGT5;
 OUTPUT;
 ******************
 * 6 = Active Duty Dependents
 **********************
 MAJGRP = PUT(6,MAJGRPF.);
 SCORE = ADJ6;
 SEMEAN = SEMEAN6;
 N_OBS = &PREFIX.CNT6;
 N_WGT = &PREFIX.WGT6;
 OUTPUT;
  ********************
 * 7 = Retirees and Dependents
  MAJGRP = PUT(7,MAJGRPF.);
 SCORE = ADJ7;
 SEMEAN = SEMEAN7;
 N_OBS = &PREFIX.CNT7;
 N WGT = &PREFIX.WGT7;
 OUTPUT;
 ******************
 * 8 = All Beneficiaries
                   ALL Beneficiaries
 MAJGRP = PUT(8,MAJGRPF.);
 SCORE = ADJ8;
 SEMEAN = SEMEAN8;
 N_OBS = &PREFIX.CNT8;
 N_WGT = &PREFIX.WGT8;
 OUTPUT;
KEEP MAJGRP
  REGION
   REGCAT
   BENTYPE
   BENEFIT
   TIMEPD /*MJS 07/03/03 Added*/
   SCORE
   SEMEAN
  N OBS
   N_WGT
  SIG
RUN;
%MEND;
*******************
* COMPOSITE # 1.
* GETTING NEEDED CARE VARIABLES.
************************
%PROCESS(QUESTION=RCOMPOS1,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13029,TYPE=INDIVIDUAL);
```

```
%PROCESS(QUESTION=R_R13033,TYPE=INDIVIDUAL);
*******************
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*************************
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13007,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13010,TYPE=INDIVIDUAL);
******************
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13021,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13022,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R R13023, TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13024,TYPE=INDIVIDUAL);
* COMPOSITE # 4.
* CUSTOMER SERVICE.
*************************
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13041,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13042,TYPE=INDIVIDUAL);
*************************
* COMPOSITE # 5
* CLAIMS PROCESSING.
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE );
%PROCESS(QUESTION=R_R13046,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R13047,TYPE=INDIVIDUAL);
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
*************************
%PROCESS(QUESTION=R R13018, TYPE=INDIVIDUAL);
*************************
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
******************************
%PROCESS(QUESTION=R_R13048, TYPE=INDIVIDUAL);
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
*****************************
%PROCESS(QUESTION=R_R13027,TYPE=INDIVIDUAL);
* INDIVIDUAL # 4.
* SPECIALTY CARE: 0 - 10.
************************
%PROCESS(QUESTION=R_R13031,TYPE=INDIVIDUAL);
***********************
*******************
* STACK up all of the files into one final output dataset.
DATA OUT.LOADCAHQ;
  SET R R13029
    R_R13033
    R R13007
    R_R13010
    R_R13021
    R_R13022
    R_R13023
```

```
R_R13024
       R_R13041
       R_R13042
       R_R13046
       R_R13047
       R_R13018
       R_R13048
       R_R13027
       R_R13031
       RCOMPOS1
       RCOMPOS2
       RCOMPOS3
       RCOMPOS4
       RCOMPOS5
    IF SCORE = . THEN DELETE;
RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: LOADCAHQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHQ.SAS7BDAT - Combined CAHPS Scores Database in WEB layout";
PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT
       REGION*REGCAT
      /MISSING LIST;
RUN;
```

$I.2.B \qquad Q3FY2013 \\ \label{load} PROGRAMS \\ \label{load} Purchased LOADWEB \\ \label{load} LOADCAHQ. INC-Format definitions for converting the Scores Database into the WEB layout-Run Quarterly.$

*	*****	***************
*	DDOCD AM.	LOADCANO INC
*	PROGRAM: TASK:	LOADCAHQ.INC QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
*	PURPOSE:	Format definitions for converting the CAHPS Scores Database
*		into the WEB layout.
*	LID TOURNIA	11/00/0000 PM WEITH DAMININ Advised from LOADGAND ING
*	WRITTEN:	11/09/2000 BY KEITH RATHBUN, Adapted from LOADCAHP.INC.
*	MODIFIED:	1) 08/13/2001 BY KEITH RATHBUN, Added XSERVAFF format to
*		accommodate the short reports.
*		2) 01/24/2002 BY KEITH RATHBUN, Added BENTYPF = 1998,1999,2000 added catchment composites.
*		3) 04/10/2002 BY KEITH RATHBUN, Added parameters for 2002 survey.
*		4) 04/03/2003 BY MIKE SCOTT, Added parameters for 2003 survey.
*		5) 07/08/2003 BY MIKE SCOTT, Added formats GETNCARE, GETCAREQ,
*		CRTSHELP, HOWWELL, CUSTSERV, CLMSPROC, and PREVCARE. 6) 03/22/2004 BY KEITH RATHBUN, Added parameters for 2004 survey.
*		Changed R04031 to be "Wait Less than 15 Minutes For Appointment".
*		7) 05/06/2004 BY MIKE SCOTT, Changed R04031 back to 2003 version of
*		the label ("Wait More than 15 Minutes Past Appointment") so that
*		the Q1 2004 version of the question is consistent with past versions. The label will be changed to the new version ("Waiting
*		in the Doctor's Office") in Makehtmq.sas.
*		8) 02/2006 BY REGINA GRAMSS, Changed date format to fielding dates.
*		9) 03/21/2006 BY KEITH RATHBUN, Added parameters for 2006 survey. 0) 08/22/2006 BY JUSTIN OH, Changed SERVREGF format for Overseas.
*		1) 12/15/2006 BY JUSTIN OH, Added parameters for 2007 survey.
*		2) 02/02/2007 BY JUSTIN OH, Added "s" in Healthy Behaviors in VALUE BEN.
*		3) 01/10/2008 BY KEITH RATHBUN, Added parameters for 2008 survey.
*		4) 01/09/2009 BY MIKE RUDACILLE, Added parameters for 2009 survey. 4) 01/16/2009 BY MIKE RUDACILLE, Changed CONUS to USA.
*		5) 04/11/2009 by Mike Rudacille - Changed formats to reflect
*		modifications to beneficiary reports necessary for V4
*		6) 12/17/09 by Emma Ernst, Added parameters for 2010 survey.
*		7) 12/02/10 by Mike Rudacille, Added parameters for 2011 survey. Also removed 2000 parameters for space considerations.
*		8) 12/10/11 by Mike Rudacille, Added parameters for 2012 survey.
*		Also removed 2002 parameters for space considerations.
*		9) 11/03/12 by Mike Rudacille, Updated for handling of Joint Service facilities
*		0) 12/27/12 by Aimee Valenzuela, Added parameters for 2013 survey.
*		
*	INPUTS:	No direct input
*	1111 0151	No direct input
*	OUTPUT:	No direct output
*	NOTES:	1) Under the new contract (8860), the survey year was changed
*		to be based on the year the survey is administered (2002)
*		as opposed to the questioning reference frame (2001). This
*		include file contains variable names for both the 2001 survey administration year and the the 2002 administration
*		year surveys.
*		***********
;		
*	*****	***************
	FORMAT De	initions ************************************
	ROC FORMAT	
	VALUE MA	
		rime Enrollees "
		nrollees with Military PCM" nrollees with Civilian PCM"
		on-enrolled Beneficiaries "
		ctive Duty "
		ctive Duty Dependents "
	, = ".	etirees and Dependents "

```
8 = "All Beneficiaries
  VALUE XSERVAFF
     1 = "ARMY"
     2 = "AIR FORCE"
     3 = "NAVY"
     4 = "OTHER"
     5 = "JOINT SERVICE"
  VALUE REGIONF
     0 = "USA MHS "
     1 = "North"
     2 = "South"
     3 = "West"
     4 = "Overseas"
/*JSO 08/24/2006, Changed Overseas to Service for Europe, Pacific, Latin*/
  VALUE SERVREGF
     1 = "North Army"
     2 = "North Air Force"
     3 = "North Navy"
     4 = "North Other"
     5 = "North Joint Service"
     6 = "South Army"
     7 = "South Air Force"
     8 = "South Navy"
     9 = "South Other"
     10 = "South Joint Service"
     11 = "West Army"
     12 = "West Air Force"
    13 = "West Navy"
    14 = "West Other"
     15 = "West Joint Service"
     16 = "Europe Army"
     17 = "Europe Air Force"
     18 = "Europe Navy"
     19 = "Europe Other"
     20 = "Europe Joint Service"
     21 = "Pacific Army"
     22 = "Pacific Air Force"
     23 = "Pacific Navy"
     24 = "Pacific Other"
     25 = "Pacific Joint Service"
     26 = "Latin America Army"
     27 = "Latin America Air Force"
     28 = "Latin America Navy"
     29 = "Latin America Other"
     30 = "Latin America Joint Service"
     31 = "USA ARMY"
     32 = "USA AIR FORCE"
     33 = "USA NAVY"
     34 = "USA OTHER";
/*JSO 08/24/2006, Changed Overseas to Europe, Pacific, Latin*/
  VALUE SERVREGO
     1 = "North Army"
     2 = "North Air Force"
     3 = "North Navy"
     4 = "North Other"
     5 = "North Joint Service"
     6 = "South Army"
     7 = "South Air Force"
     8 = "South Navy"
     9 = "South Other"
     10 = "South Joint Service"
     11 = "West Army"
    12 = "West Air Force"
    13 = "West Navy"
     14 = "West Other"
    15 = "West Joint Service"
     16 = "Overseas Europe"
     17 = "Overseas Pacific"
```

```
18 = "Overseas Latin America";
  VALUE $BENTYPF
   "2004 Q2 " = "April, 2003 to March, 2004
   "2004 Q3 " = "Quarter 3, CY 2004
   "2004 Q4 " = "Quarter 4, CY 2004
   "2005 Q1 " = "January, 2005
   "2005 Q2 " = "April, 2005
   "2005 Q3 " = "July, 2005
   "2005 Q4 " = "October, 2005
   "2006 Q1 " = "January, 2006
   "2006 Q2 " = "April, 2006
   "2006 Q3 " = "July, 2006
   "2006 Q4 " = "October, 2006
   "2007 Q1 " = "January, 2007
   "2007 Q2 " = "April, 2007
   "2007 Q3 " = "July, 2007
   "2007 Q4 " = "October, 2007
   "2008 Q1 " = "January, 2008
   "2008 Q2 " = "April, 2008
   "2008 Q3 " = "July, 2008
   "2008 Q4 " = "October, 2008
   "2009 Q1 " = "January, 2009
   "2009 Q2 " = "April, 2009
   "2009 Q3 " = "July, 2009
   "2009 Q4 " = "October, 2009
   "2010 Q1 " = "January, 2010
   "2010 Q2 " = "April, 2010
   "2010 Q3 " = "July, 2010
   "2010 Q4 " = "October, 2010
   "2011 Q1 " = "January, 2011
   "2011 Q2 " = "April, 2011
   "2011 Q3 " = "July, 2011
   "2011 Q4 " = "October, 2011
   "2012 Q1 " = "January, 2012
   "2012 Q2 " = "April, 2012
   "2012 Q3 " = "July, 2012
   "2012 Q4 " = "October, 2012
   "2013 Q1 " = "January, 2013
   "2013 Q2 " = "April, 2013
   "2013 Q3 " = "July, 2013
   "2013 Q4 " = "October, 2013
/***********************************
  /* Admin. Year Defn.
   /* 2004
               2005
                     2006 2007 2008 2009 2010 2011
2013
"R04013", "R05013", "R06013", "R07013", "R08013", "R09029", "R10029", "R11029", "R12029",
"R13029" = "Getting to See a Specialist
   "R04028", "R05027", "R06027", "R07027", "R08027", "R09033", "R10033", "R11033", "R12033",
"R13033" = "Getting Treatment
   "R04020", "R05019", "R06019", "R07019", "R08019", "R09007", "R10007", "R11007", "R12007",
"R13007" = "Wait for Urgent Care" "
"R04023", "R05022", "R06022", "R07022", "R08022", "R09010", "R10010", "R11010", "R12010",
"R13010" = "Wait for Routine Visit
   "R04034", "R05033", "R06033", "R07033", "R08033", "R09021", "R10021", "R11021", "R12021",
"R13021" = "Listens Carefully
   "R04035", "R05034", "R06034", "R07034", "R08034", "R09022", "R10022", "R11022", "R12022",
"R13022" = "Explains so You Can Understand
   "R04036", "R05035", "R06035", "R07035", "R08035", "R09023", "R10023", "R11023", "R12023",
"R13023" = "Shows Respect
   "R04037", "R05036", "R06036", "R07036", "R08036", "R09024", "R10024", "R11024", "R12024",
"R13024" = "Spends Time with You
   "R04045", "R05043", "R06043", "R07043", "R08043", "R09040", "R10040", "R11041", "R12041",
"R13041" = "Getting Information
   "R04047", "R05045", "R06045", "R07045", "R08045", "R09041", "R10041", "R11042", "R12042",
```

"R13042" = "Courteous Customer Service

```
"R04041", "R05040", "R06040", "R07040", "R08040", "R09045", "R10045", "R11046", "R12046",
"R13046" = "Claims Handled in a Reasonable Time"
    "R04042", "R05041", "R06041", "R07041", "R08041", "R09046", "R10046", "R11047", "R12047",
"R13047" = "Claims Handled Correctly
    "R04038", "R05037", "R06037", "R07037", "R08037", "R09018", "R10018", "R11018", "R12018",
"R13018" = "Health Care
    "R04054", "R05048", "R06048", "R07048", "R08048", "R09047", "R10047", "R11048", "R12048",
"R13048" = "Health Plan
   "R04009", "R05009", "R06009", "R07009", "R08009", "R09027", "R10027", "R11027", "R12027",
"R13027" = "Primary Care Manager
   "R04015", "R05015", "R06015", "R07015", "R08015", "R09031", "R10031", "R11031", "R12031",
"R13031" = "Specialty Care
                             "PHYSIC " = "Physical
                             "MENTAL " = "Mental
  VALUE SBENEF
    "RCOMPOS1", "CCOMPOS1", "R04013", "R04028",
                           "R05013", "R05027",
                           "R06013", "R06027",
                           "R07013", "R07027",
                           "R08013", "R08027",
                           "R09029", "R09033",
                           "R10029", "R10033",
                           "R11029", "R11033",
                           "R12029", "R12033",
                           "R13029","R13033"
   = "Getting Needed Care "
    "RCOMPOS2", "CCOMPOS2", "R04020", "R04023",
                           "R05019", "R05022",
                           "R06019", "R06022",
                           "R07019", "R07022",
                           "R08019", "R08022",
                           "R09007", "R09010",
                           "R10007", "R10010",
                           "R11007", "R11010",
                           "R12007", "R12010",
                           "R13007", "R13010"
    = "Getting Care Quickly "
    "RCOMPOS3", "CCOMPOS3", "R04034", "R04035", "R04036", "R04037",
                           "R05033", "R05034", "R05035", "R05036",
                           "R06033", "R06034", "R06035", "R06036",
                           "R07033", "R07034", "R07035", "R07036",
                           "R08033", "R08034", "R08035", "R08036",
                           "R09021", "R09022", "R09023", "R09024",
                           "R10021", "R10022", "R10023", "R10024",
                           "R11021", "R11022", "R11023", "R11024",
                           "R12021", "R12022", "R12023", "R12024",
                           "R13021", "R13022", "R13023", "R13024"
    = "How Well Doctors Communicate "
    "RCOMPOS4", "CCOMPOS4", "R04045", "R04047",
                           "R05043","R05045",
                           "R06043", "R06045",
                           "R07043", "R07045",
                           "R08043", "R08045",
                           "R09040","R09041",
                           "R10040", "R10041",
                           "R11041", "R11042",
                           "R12041", "R12042",
                           "R13041", "R13042"
    = "Customer Service
    "RCOMPOS5", "CCOMPOS5", "R04041", "R04042",
                           "R05040", "R05041",
                           "R06040", "R06041",
                           "R07040","R07041",
                           "R08040","R08041",
                           "R09045", "R09046",
                           "R10045", "R10046",
                           "R11046","R11047",
                           "R12046", "R12047",
```

```
"R13046", "R13047"
   = "Claims Processing
   "RCOMPOS11", "COMPOS11", "MENTAL", "PHYS"
   = "Health Status
/**********************************
   /* Admin. Year Defn.
   /* 2004
                                                             2010
              2005
                       2006
                                2007
                                         2008
                                                  2009
                                                                     2011
2013 */
"R04038", "R05037", "R06037", "R07037", "R08037", "R09018", "R10018", "R11018", "R12018",
"R13018" = "Health Care
   "R04054", "R05048", "R06048", "R07048", "R08048", "R09047", "R10047", "R11048", "R12048",
"R13048" = "Health Plan
   "R04009", "R05009", "R06009", "R07009", "R08009", "R09027", "R10027", "R11027", "R12027",
"R13027" = "Primary Care Manager
   "R04015", "R05015", "R06015", "R07015", "R08015", "R09031", "R10031", "R11031", "R12031",
"R13031" = "Specialty Care
VALUE BEN
/* 0 = 'Total' deleted no longer calculating total 04/2005 RSG ***/
 1 = 'Getting Needed Care'
 2 = 'Getting Care Quickly'
 3 = 'How Well Doctors Communicate'
 4 = 'Customer Service'
 5 = 'Claims Processing'
 6 = 'Health Plan'
 7 = 'Health Care'
 8 = 'Primary Care Manager'
 9 = 'Specialty Care'
10 = 'Preventive Care'
11 = 'Healthy Behaviors';
 VALUE MAJOR
 1 = "Prime Enrollees
 2 = "Enrollees with Military PCM"
 3 = "Enrollees with Civilian PCM"
  4 = "Non-enrolled Beneficiaries "
 5 = "Active Duty
 6 = "Active Duty Dependents
 7 = "Retirees and Dependents "
 8 = "All Beneficiaries
 VALUE GETNCARE
 1 = "Getting to See a Specialist"
 2 = "Getting Treatment"
 3 = "Composite";
 VALUE GETCAREQ
 1 = "Wait for Routine Visit"
  2 = "Wait for Urgent Care"
 3 = "Composite";
 VALUE HOWWELL
 1 = "Listens Carefully"
  2 = "Explains so You Can Understand"
 3 = "Shows Respect"
  4 = "Spends Time with You"
 5 = "Composite";
 VALUE CUSTSERV
 1 = "Getting Information"
  2 = "Courteous Customer Service"
 3 = "Composite";
 VALUE CLMSPROC
 1 = "Claims Handled in a Reasonable Time"
  2 = "Claims Handled Correctly"
```

```
3 = "Composite";

VALUE PREVCARE
1 = "Mammography"
2 = "Pap Smear"
3 = "Hypertension"
4 = "Prenatal Care"
5 = "Composite";

VALUE SMOKEF
1 = "Non-Smoking Rate"
2 = "Counselled To Quit"
3 = "Percent Not Obese"
4 = "Composite";

RUN;
```

I.3.A Q1FY2013\PROGRAMS\BENCHMARK\BENCHA01.SAS - Extract Adult CAHPS Questions from NCBD - Run Ouarterly.

```
******************
* PROGRAM: BENCHA01.SAS
* TASK:
           Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Extract Adult CAHPS Questions
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
* INPUTS:
          1) AC2009DB.sas7bdat - 2009 Adult CAHPS Questions
* OUTPUT:
          1) BENCHA01.sas7bdat - 2009 Adult CAHPS Questions Renamed to be
             consistent with the 2009 MPR DOD Survey.
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
           2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
             Survey.
           3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
           4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
           5) 05/06/2003 BY MIKE SCOTT, Updated for 2002 benchmarks.
           6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
           7) 04/16/2004 BY KEITH RATHBUN, Updated to use 2003 NCBD.
           8) 05/17/2005 BY REGINA GRAMSS, Updated for Q1 2005.
           9) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006.
             Changed variable names to match the 2006 HCSDB survey.
              Changed CAHPS variable names to match those in 2005 NCBD.
          10) 02/21/2007 BY JUSTIN OH, Updated for Q1 FY 2007.
              Changed variable names to match the 2006 HCSDB survey.
             Changed CAHPS variable names to match those in 2006 NCBD.
             Changed SREDHIGH varible AC60_05 to AC58_06
          11) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008.
              Changed variable names to match the 2008 HCSDB survey.
          12) 01/05/2009 BY MIKE RUDACILLE, Updated for Q1 FY 2009.
             Changed variable names to match the 2009 HCSDB survey.
          13) April 7, 2009 by Mike Rudacille, changed variable names to reflect
             modifications to beneficiary reports necessary for V4
          14) May 5, 2009 by Mike Rudacille, Updated for 2008 benchmarks.
          15) December 21, 2009 by Emma Ernst for Q1FY2010
          16) March 30, 2010 by Mike Rudacille, Updated for 2009 benchmarks
          17) December 2, 2010 by Mike Rudacille, Updated for Q1 FY 2011.
             Changed variable names to match the 2011 HCSDB survey.
          18) March 31, 2011 by Mike Rudacille, Updated for 2010 benchmarks
          19) December 10, 2011 by Mike Rudacille, Updated for Q1 FY 2012.
             Changed variable names to match the 2012 HCSDB survey.
          20) April 4, 2012 by Amanda Kudis, updated for 2011 benchmarks.
          21) January 10, 2013 by Aimee Valenzuela, updated for 2013, commented out
              lines 119-124, and removed model from keep statement.
* NOTES:
* 1) This program will generate the input for BENCHA02.SAS.
******************
* Assign data libraries and options
LIBNAME IN "..\..\2011AdultNCBD";
LIBNAME OUT "data";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
DATA OUT.BENCHA01;
  SET IN.AC2011DB (RENAME=(BIRTHYY=YOB));
  FORMAT _ALL_;
  H13019 = AC13 11;
  * Getting Needed Care
  H13029 = AC23_11;
  H13033 = AC27_11;
                      ******
  * Getting Care Quickly
```

```
************
 H13007 = AC04_11;

H13010 = AC06_11;
 * How Well Doctors Communicate
 *****************************
 H13021 = AC16_11;
 H13022 = AC15_11;
 H13023 = AC17_11;
H13024 = AC18_11;
                    *******
 * Customer Service
 ****************
 H13035 = AC29_11;
 H13041 = AC35_{11};
 H13042 = AC36_11;
 *******
 * Claims Processing
 ****************
 H13046 = AC40_11;
 H13047 = AC41_11;
 **********
 * Health Care Rating
 ****************
 H13018 = AC12_11;
 **********
 * Health Plan Rating
 ****************
 H13048 = AC42_{11};
 **********
 * Personal Doctor Rating
 H13027 = AC21_11;
  ************
 * Specialist Rating
 **************
 H13031 = AC25_{11};
 ***********
 * Health Status
 **************
 H13065 = AC43_11;
 AGEGROUP = AGE; *NEED TO USE USE THIS DIRECTLY (already grouped);
 XSEXA = GENDER;
 SREDHIGH = AC60_{11}; /* MER 03/31/11 changed AC55_{09} to AC60_{10} */
 SRRACEA=AC62A_11; /* MER 03/31/11 changed AC57A_09 thru AC57E_09 to AC62A_10 thru AC62E_10
 SRRACEB=AC62B_11;
 SRRACEC=AC62E 11;
 SRRACED=AC62C_11;
 SRRACEE=AC62D 11;
                  /* MER 03/31/11 chaned AC56_09 to AC61_10 */
 H13073=AC61_11;
 *if product in (7,9) then model=4; /*MJS 05/06/03 product now numeric*/
 *if product=3 then model=2;
                                          /*coded according to AC FORMATS.SAS*/
 *if product=1 then model=1;
 *if product=4 then model=6;
 *if product=8 then model=5;
 *if product=2 then model=3;
 nproduct=planid+0;
                                            /*MJS 05/06/03 was plnid now planid*/
LABEL H13029
              = "AC23_11 - Got appointment with a specialist"
            = "AC27_11 - Got necessary care"
     H13033
              = "AC04_11 - Got urgent care quickly"
= "AC06_11 - Got routine care quickly"
     H13007
     H13010
             = "AC16_11 - Doctors/providers listened carefully"
     H13021
             = "AC15_11 - Doctors/providers explained things"
     H13022
             = "AC17_11 - Doctors/providers showed respect"
= "AC18_11 - Doctors/providers spent enough time"
     H13023
     H13024
            = "AC35_11 - Customer service provided needed info"
     H13041
              = "AC36_11 - Customer services was courteous"
     H13042
              = "AC40_11 - Claims handled quickly"
     H13046
             = "AC41_11 - Claims handled correctly"
     H13047
     H13018 = "AC12_11 - Rating of health care"
             = "AC42_11 - Rating of health plan"
     H13048
```

```
= "AC21_11 - Rating of personal doctor or nurse"
         H13027
                 = "AC25_11 - Rating of specialist seen most often"
= "AC43_11 - Rating of overall health"
         н13031
         H13065
         AGEGROUP = "AGE - Imputed adult age"
         XSEXA = "GENDER - Gender (equal to AC59_10 or SEX)"

SREDHIGH = "AC60_11 - Highest grade finished" /*JSO 02/21/06 chged AC60_05 to AC58_06
* /
       H13029
 KEEP
        H13033
        н13007
        H13010
         H13021
        H13022
         H13023
         H13024
         H13041
        H13042
         H13046
         H13047
        н13018
         H13048
         H13027
         H13031
        Н13065
         H13035
         AGEGROUP
         XSEXA
         SREDHIGH
         NPRODUCT
         DISP
         YOB
         SRRACEA--SRRACEE
         H13073
        H13019
RUN;
TITLE1 "Extract Adult CAHPS Questions (DoD)";
TITLE2 "Program Name: BENCHA01.SAS By Keith Rathbun";
TITLE3 "Program Input: AC2011DB.sas7bdat";
TITLE4 "Program Output: BENCHA01.sas7bdat";
PROC CONTENTS; RUN;
PROC FREQ;
TABLES _ALL_ /MISSING LIST;
```

I.3.B Q1FY2013\PROGRAMS\BENCHMARK\BENCHA02.SAS - Recode Adult CAHPS Questions from NCBD to be consistent with the HCSDB - Run Quarterly.

```
* PROGRAM: BENCHA02.SAS
* TASK:
           Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE: Recode Adult CAHPS Questions
* WRITTEN: 06/02/2000 BY KEITH RATHBUN
* INPUT:
          1) BENCHA01.sas7bdat - Adult CAHPS Questions Renamed to be
             consistent with the MPR DOD Survey.
* OUTPUT: 1) BENCHA02.sas7bdat - Recoded Adult CAHPS Questions Renamed
             to be consistent with the MPR DOD Survey.
* MODIFIED: 1) 12/19/2000 BY KEITH RATHBUN for Q1 2000 Survey.
           2) 04/11/2002 BY MIKE SCOTT, Updated variable names for 2002
             Survey.
           3) 07/30/2002 BY MIKE SCOTT, Updated to use 2001 NCBD.
           4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
           5) 05/06/2003 BY MIKE SCOTT, Changed labels from _01 to _02.
           6) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
           7) April 2004 By Keith Rathbun, Removed reverse coding for
             H04031. 2004 survey question wording is 'Within 15 minutes'
              instead of "More than 15 Minutes". Updated CAHPS variable
              labels to be consistent with 2003 NCBD.
           8) 06/2005 By Regina Gramss, Updated codes with 2005 variable
              names/labels.
           9) 03/24/2006 BY KEITH RATHBUN, Updated for 2006 survey.
             Changed CAHPS variable names to match those in 2005 NCBD.
          10) 01/10/2008 BY KEITH RATHBUN, Updated for 2008 survey.
          11) 01/05/2009 BY MIKE RUDACILLE, Updated for 2009 survey.
          12) April 10, 2009 by Mike Rudacille, changed variable names to reflect
              modifications to beneficiary reports necessary for {\tt V4}
          13) December 21, 2009 by Emma Ernst, updated for Q1FY2010
          14) March 30, 2010 by Mike Rudacille, updated for Q2FY2010
             using 2009 NCBD benchmark data.
          15) December 2, 2010 by Mike Rudacille, Updated for 2011 survey.
          16) March 31, 2011 by Mike Rudacille, updated for Q2FY2011
             using 2010 NCBD benchmark data.
          17) December 10, 2011 by Mike Rudacille, Updated for 2011 survey.
          18) April 4, 2011 by Amanda Kudis, update for Q2FY2012 using 2011
             NCBD benchmark data.
          19) January 10, 2013 by Aimee Valenzuela, update for Q1FY2013
* NOTES:
* 1) Run this program after BENCHA01.SAS.
 2) This program will generate the input for BENCHA03.SAS.
******************
* Assign data libraries and options
**********
                                  **********
LIBNAME IN
              "data";
              "data";
LIBNAME OUT
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;
DATA OUT.BENCHA02(rename=(nproduct=product));
  SET IN.BENCHA01;
  ******************
  * Recode variables with Never, Sometimes, Usually and Always.
  * Recode Never & Sometimes (1 & 2) to 1.
  * Recode Usually (3) to 2.
  * Recode Always (4) to 3.
               **********************
  IF H13007 = 1
                    THEN R13007 = 1;
  ELSE IF H13007 = 2 THEN R13007 = 1;
  ELSE IF H13007 = 3 THEN R13007 = 2;
```

```
ELSE IF H13007 = 4 THEN R13007 = 3;
ELSE IF H13007 < 0 THEN R13007 = .;
IF H13010 = 1
                  THEN R13010 = 1;
ELSE IF H13010 = 2 THEN R13010 = 1;
ELSE IF H13010 = 3 THEN R13010 = 2;
ELSE IF H13010 = 4 THEN R13010 = 3;
ELSE IF H13010 < 0 THEN R13010 = .;
IF H13021 = 1
                   THEN R13021 = 1;
ELSE IF H13021 = 2 THEN R13021 = 1;
ELSE IF H13021 = 3 THEN R13021 = 2;
ELSE IF H13021 = 4 THEN R13021 = 3;
ELSE IF H13021 < 0 THEN R13021 = .;
IF H13022 = 1
                  THEN R13022 = 1;
ELSE IF H13022 = 2 THEN R13022 = 1;
ELSE IF H13022 = 3 THEN R13022 = 2;
ELSE IF H13022 = 4 THEN R13022 = 3;
ELSE IF H13022 < 0 THEN R13022 = .;
IF H13023 = 1
                  THEN R13023 = 1;
ELSE IF H13023 = 2 THEN R13023 = 1;
ELSE IF H13023 = 3 THEN R13023 = 2;
ELSE IF H13023 = 4 THEN R13023 = 3;
ELSE IF H13023 < 0 THEN R13023 = .;
IF H13024 = 1
                 THEN R13024 = 1;
ELSE IF H13024 = 2 THEN R13024 = 1;
ELSE IF H13024 = 3 THEN R13024 = 2;
ELSE IF H13024 = 4 THEN R13024 = 3;
ELSE IF H13024 < 0 THEN R13024 = .;
IF H13029 = 1
                  THEN R13029 = 1;
ELSE IF H13029 = 2 THEN R13029 = 1;
ELSE IF H13029 = 3 THEN R13029 = 2;
ELSE IF H13029 = 4 THEN R13029 = 3;
ELSE IF H13029 < 0 THEN R13029 = .;
IF H13033 = 1
                  THEN R13033 = 1;
ELSE IF H13033 = 2 THEN R13033 = 1;
ELSE IF H13033 = 3 THEN R13033 = 2;
ELSE IF H13033 = 4 THEN R13033 = 3;
ELSE IF H13033 < 0 THEN R13033 = .;
TF H13035 = 1
                  THEN R13035 = 1;
ELSE IF H13035 = 2 THEN R13035 = 1;
ELSE IF H13035 = 3 THEN R13035 = 2;
ELSE IF H13035 = 4 THEN R13035 = 3;
ELSE IF H13035 < 0 THEN R13035 = .;
IF H13041 = 1
                   THEN R13041 = 1;
ELSE IF H13041 = 2 THEN R13041 = 1;
ELSE IF H13041 = 3 THEN R13041 = 2;
ELSE IF H13041 = 4 THEN R13041 = 3;
ELSE IF H13041 < 0 THEN R13041 = .;
IF H13042 = 1
                 THEN R13042 = 1;
ELSE IF H13042 = 2 THEN R13042 = 1;
ELSE IF H13042 = 3 THEN R13042 = 2;
ELSE IF H13042 = 4 THEN R13042 = 3;
ELSE IF H13042 < 0 THEN R13042 = .;
IF H13046 = 1
                   THEN R13046 = 1;
ELSE IF H13046 = 2 THEN R13046 = 1;
ELSE IF H13046 = 3 THEN R13046 = 2;
ELSE IF H13046 = 4 THEN R13046 = 3;
ELSE IF H13046 < 0 THEN R13046 = .;
IF H13047 = 1
                 THEN R13047 = 1;
ELSE IF H13047 = 2 THEN R13047 = 1;
ELSE IF H13047 = 3 THEN R13047 = 2;
ELSE IF H13047 = 4 THEN R13047 = 3;
```

```
ELSE IF H13047 < 0 THEN R13047 = .;
   IF H13065 = 1
                             THEN R13065 = 5;
   ELSE IF H13065 = 2
                             THEN R13065 = 4;
                           THEN R13065 = 3;
   ELSE IF H13065 = 3
   ELSE IF H13065 = 4
                             THEN R13065 = 2;
   ELSE IF H13065 = 5
                          THEN R13065 = 1;
   ELSE IF H13065>5 | H13065<1 THEN R13065 = .;
   *****************
   * Recode variables to one missing condition "."
   * This also makes all the "H000xx" to "R000xx".
   ************************
   R13027 = H13027; IF R13027 < 0 | R13027 > 10 THEN R13027 = .;
   R13031 = H13031; IF R13031 < 0 R13031>10 THEN R13031 = .;
   R13018 = H13018; IF R13018 < 0 | R13018 > 10 THEN R13018 = .; R13048 = H13048; IF R13048 < 0 | R13048 > 10 THEN R13048 = .; R13073 = H13073; IF R13073 < THEN R13073 = .;
                  = "AC04_11 - Got urgent care quickly"
= "AC06_11 - Got routine care quickly"
   LABEL R13007
         R13010
         R13021
                  = "AC16_11 - Doctors/providers listened carefully"
         R13022
                  = "AC15_11 - Doctors/providers explained things"
         R13023
                   = "AC17_11 - Doctors/providers showed respect"
                  = "AC18_11 - Doctors/providers spent enough time"
         R13024
         R13029
                  = "AC23_11 - Got appointment with a specialist"
                  = "AC27_11 - Got necessary care"
= "AC35_11 - Customer service provided needed info"
         R13033
         R13041
                  = "AC36_11 - Customer services was courteous"
         R13042
                  = "AC40_11 - Claims handled quickly"

= "AC41_11 - Claims handled correctly"

= "AC12_11 - Rating of health care"
         R13046
         R13047
         R13018
         R13027
                  = "AC21_11 - Rating of personal doctor or nurse"
                  = "AC25_11 - Rating of specialist seen most often"
= "AC42_11 - Rating of health plan"
         R13031
         R13048
                  = "AC43_11 - Rating of overall health"
         nPRODUCT = "Product ID - Unique plan ID";
       drop product;
RIIN:
TITLE1 "Recode Adult CAHPS Questions (6244-410)";
TITLE2 "Program Name: BENCHA02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHA01.SAS7BDAT";
TITLE4 "Program Output: BENCHA02.SAS7BDAT";
PROC CONTENTS; RUN;
PROC FREO;
TABLES AGEGROUP
        XSEXA
        SREDHIGH
        R13007 * H13007
        R13010 * H13010
        R13021 * H13021
        R13022 * H13022
        R13023 * H13023
        R13024 * H13024
        R13029 * H13029
        R13033 * H13033
        R13041 * H13041
        R13042 * H13042
        R13046 * H13046
        R13047 * H13047
        R13018 * H13018
        R13027 * H13027
        R13031 * H13031
        R13048 * H13048
        R13065 * H13065
   /MISSING LIST;
RIIN;
```

I.3.C Q3FY2013\PROGRAMS\PurchasedBENCHMARK\BENCHA03.SAS - Calculate CAHPS Benchmark data for HCSDB - Run Quarterly.

* PROGRAM: BENCHA03.SAS TASK: Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410) PURPOSE: Adjust Adult CAHPS Benchmarks WRITTEN: June 2000 BY ERIC SCHONE INPUTS: 1) BENCHA02.sas7bdat - 2010 Adult CAHPS Questions Renamed to be consistent with the 2011 MPR DOD Survey. 2) GROUP8.sas7bdat - CAHPS Group8 (all beneficiaries) Dataset OUTPUTS: 1) Benchmark Composite Scores Data Sets * MODIFIED: 1) Nov 2000 BY ERIC SCHONE - Output permanent datasets with scores and standard errors and process the rest of the composites and ratings. 2) Dec 2000 BY KEITH RATHBUN - Update variable names for Q1 2000 Survey. 3) Jan 2002 BY KEITH RATHBUN - Updated to run under SAS version 8 (changed INTERCEP to INTERCEPT). 4) Apr 2002 BY MIKE SCOTT - Updated variable names for Q1 2002 Survey. 5) Jul 2002 BY MIKE SCOTT - Changed R00077 to R04075, since H02077 (health status) is back and was renamed to R04075 in HSC022 1.sd2. 6) Mar 2003 BY MIKE SCOTT - Updated for 2003 survey. 7) May 2003 BY MIKE SCOTT - Changed ac03_01 to ac03_02. 8) Jun 2003 BY MIKE SCOTT - Updated for Q2 2003. 9) Oct 2003 BY MIKE SCOTT - Updated for Q3 2003. 10) Mar 2004 BY MIKE SCOTT - Updated for Q1 2004. 11) April 2004 BY KEITH RATHBUN - Updated to use the CAHPS 2003 variable ac03_03. 12) June 2004 BY REGINA GRAMSS - Updated to use for Q2 2004 13) Sept 2004 BY REGINA GRAMSS - Update for 03 2004 14) May 2005 BY REGINA GRAMSS - Updated for Q1 2005 15) Jul 2005 BY REGINA GRAMSS - Updated for Q2 2005 16) Oct 2005 BY REGINA GRAMSS - Updated for Q3 2005 17) Dec 2005 BY REGINA GRAMSS - Updated for Q4 2005 18) 03/24/2006 BY KEITH RATHBUN, Updated for Q2 FY 2006. Changed variable names to match the 2006 HCSDB survey. 19) 07/12/2006 by Justin Oh - Updated for Q3 FY 2006. 20) 10/03/2006 by Justin Oh - Changed libname in2 for Q4FY2006. Change the INCLUDE path to CONVERT.sas file. 21) 12/18/2006 by Justin Oh - Changed libname in2 for Q1FY2007. Change the INCLUDE path to CONVERT.sas file. 22) 04/05/2007 by Justin Oh - Changed libname in 2 for Q2FY2007. Change the INCLUDE path to CONVERT.sas file. 23) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types ReportCards OR PurchasedReportCards. 24) 04/05/2007 by Keith Rathbun - Changed libname in 2 for Q3FY2007. Change the INCLUDE path to CONVERT.sas file. 25) 09/04/2007 by Justin Oh - Changed libname in 2 for Q4FY2007. Change the INCLUDE path to CONVERT.sas file. 26) 01/10/2008 BY KEITH RATHBUN, Updated for Q1 FY 2008. Changed variable names to match the 2008 HCSDB survey. 27) 04/11/2008 by Justin Oh - Changed libname in 2 for Q2FY2008. Change the INCLUDE path to CONVERT.sas file. 28) 06/13/2008 by Keith Rathbun - Changed libname in2 for Q3FY2008. Change the INCLUDE path to CONVERT.sas file. 29) April 10, 2009 by Mike Rudacille, changed variable names to reflect modifications to beneficiary reports necessary for V4 30) Sept 30, 2009 by Mike Rudacille - Changed libname in 2 for Q4FY2009. Change the INCLUDE path to CONVERT.sas file. 31) December 17, 2009 by Emma Ernst- Changed libname in2 for Q1FY2010 and changed variable names. 32) March 2, 2010 by Mike Rudacille - Changed libname in 2 for Q2FY2010. Change the INCLUDE path to CONVERT.sas file. 33) March 30, 2010 by Mike Rudacille - Changed libname in to get

```
benchmark data from Q2FY2010 (2009 NCBD benchmark data).
           34) June 19, 2010 by Mike Rudacille - Changed libname in 2 for Q3FY2010.
           35) August 28, 2010 by Mike Rudacille - Changed libname in2 for Q4FY2010.
36) December 2, 2010 by Mike Rudacille- Changed libname in2 for Q1FY2011 and
               changed variable names.
           37) February 24, 2011 by Mike Rudacille - Changed libname in2 for Q2FY2011.
38) December 10, 2011 by Mike Rudacille - Changed libname in2 for Q1FY2012.
           39) March 5, 2012 by Amanda Kudis - Changed libname in 2 and include Convert.sas for
O2FY2012.
           40) June 20, 2012 by Amanda Kudis - Updated for Q3FY2012.
           41) August 23, 2012 by Christine Cheu - Updated for Q4FY2012.
           42) December 27,2012 by Aimee Valenzuela - Changed libname in in2 for Q1FY2013
                and changed variable names.
           43) March 23, 2013 by Mike Rudacille - Changed libname in2 and include Convert.sas for
Q2FY2013.
* NOTES:
* 1) Run this program after BENCHA01.SAS and BENCHA02.SAS.
* 2) This program will generate the input for BENCHA04.SAS.
******************
* Assign data libraries and options
**************************
                                                                             ***/
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = PurchasedReportCards;
                 "..\..\Q1FY2013\Programs\Benchmark\Data"; /*Use BENCHA02.sas7bdat from
libname in
Q1fy2013*/
libname in2
                "..\&RCTYPE\CAHPS_AdultQ3FY2013\Data";
                "Data";
libname out
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
%let wgt=FWRWT;
OPTIONS MLOGIC MPRINT NOCENTER MERGENOBY=WARN LS=132 PS=79;
%macro comb(f,t,q,l);
proc summary data=&f;
var &t;
where &q~=.;
weight &wgt;
output out=temp mean=&t;
run;
data temp;
set temp;
array old &t;
call symput('z',left(dim(old)));
run;
data temp(drop=_type_ &t);
set temp;
array old &t;
array new var1-var&z;
 do i=1 to &z;
  new(i)=old(i);
  end;
run;
data &q._&l;
merge temp c_&q;
 array coeffs &t;
 array means var1-var&z;
 DO I = 1 TO DIM(COEFFS);
  IF COEFFS(I) = . THEN COEFFS(I) = 0;
IF MEANS(I) = . THEN MEANS(I) = 0;
  ADJUST + ( COEFFS(I) * MEANS(I) );
  END;
```

```
ADJUST = ADJUST + intercept;
&q._&l=adjust;
run;
%mend comb;
%macro adjust(x,y);
proc summary data=setup;
where &x>.;
class product;
output out=count;
data count count2(rename=(_freq_=denom));
set count;
if _type_=0 then output count2;
else output count;
run;
data count(keep=pweight product);
if _n_=1 then set count2;
set count;
pweight=denom/_freq_;
run;
data temp;
merge count setup; by product;
proc summary data=temp;
where &x>.;
weight pweight;
var &y;
output out=temp2 mean=&y;
data temp2;
set temp2;
array old &y;
call symput('z',left(dim(old)));
run;
data temp2(keep=var1-var&z);
set temp2;
array old &y;
array new var1-var&z;
 do i=1 to &z;
  new(i)=old(i);
 end;
run;
data temp;
set temp;
if _n_=1 then set temp2;
array old &y;
array new var1-var&z;
 do i=1 to &z;
 if old(i) = . then
  old(i)=new(i);
  end;
proc reg data=temp outest=c_&x noprint;
model &x=&y;
weight pweight;
output out=r_&x r=r_&x;
run;
proc sort data=r_&x; by product;
PROC DESCRIPT DATA=r_&x DESIGN=STRWR NOPRINT;
WEIGHT pweight;
```

```
SETENV DECWIDTH=4;
NEST product / missunit;
VAR R_&x;
OUTPUT SEMEAN / TABLECELL=DEFAULT
FILENAME=s_&x;
data s_&x(rename=(semean=s_&x));
set s_&x(keep=semean);
%do i=1 %to 8;
 %if &i=8 %then %do;
   data group8;
   set in2.group5 in2.group6 in2.group7;
  %comb(group8,&y,&x,8);
  %end;
  %else %do;
   %comb(in2.group&i,&y,&x,&i);
  %end;
 %end;
%mend adjust;
/* adjust all the variables */
%macro comp(compno,a,b,c,d);
%if &a~= %then %do;
  %let n=r_&a;
  %let m=s_&a;
  %do i=1 %to 8;
   %let p&i=&a._&i;
  %end;
  %let grpnum=1;
  proc sort data=r_&a;
   by mpid;
   run;
 %end;
 %if &b~= %then %do;
  %let n=%str(&n r_&b);
  %let m=%str(&m s_&b);
  %do i=1 %to 8;
  %let p&i=%str(&&p&i &b._&i);
  %end;
  %let grpnum=2;
  proc sort data=r_&b;
   by mpid;
  run;
 %end;
 %if &c~= %then %do;
 proc sort data=r_&c;
  by mpid;
  run;
  %let grpnum=3;
  %let n=%str(&n r_&c);
  %do i=1 %to 8;
  %let p&i=%str(&&p&i &c._&i);
  %let m=%str(&m s_&c); %end;
  %if &d~= %then %do;
  proc sort data=r_&d;
   by mpid;
   run;
   %let grpnum=4;
   %let n=%str(&n r_&d);
    %do i=1 %to 8;
     %let p&i=%str(&&p&i &d._&i);
    %end;
    %let m=%str(&m s_&d);
```

```
data infile;
merge &n;
by mpid;
run;
proc corr outp=outf noprint;
var &n;
weight pweight;
run;
data final;
if _n_=1 then do;
%if &a~= %then %do;
  set s_&a;
  %end;
  %if &b~= %then %do;
  set s_&b;
  %end;
  %if &c~= %then %do;
  set s_&c;
  %if &d~= %then %do;
  set s_&d;
  %end;
end;
set outf;
call symput('s'||compress(_n_),substr(_name_,3));
where _type_='CORR';
run;
data final;
set final;
array r_val &n;
array s_val &m;
sde=0;
do i=1 to dim(s_val);
  %do i=1 %to &grpnum;
  if _name_="r_&&s&i" then
   sde=sde+r_val(i)*s_&&s&i*s_val(i);
  %end;
end;
run;
data sefin&compno;
set final end=last;
tv+sde;
if last then do;
sde=(tv**.5)/&grpnum;
output;
end;
%do i=1 %to 8;
data temp(keep=&&p&i);
 merge &&p&i;
run;
data output;
set &&p&i;
totadj+adjust;
data output(keep=totadj);
set output end=last;
if last then do;
 totadj=totadj/&grpnum;
 output;
end;
run;
data out&compno._&i;
merge output temp;
run;
```

```
data out.comp&compno._&i;
   merge out&compno._&i
         sefin&compno;
run;
%end;
%mend comp;
/* create composites */
proc sort data=in.bencha02 out=setup;
by product;
run;
data setup;
set setup;
/*if ^(model in (2,4)); */ **AMK 4/06/12 removed; if disp in ('M10','I10') ; ***KRR 04/19/04 Changed _02 to _03;
data setup;
set setup; by product;
mpid=_n_;
if agegroup ne . then do;
age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;
      if agegroup=1 then age1824=1;
else if agegroup=2 then age2534=1;
 else if agegroup=3 then age3544=1;
 else if agegroup=4 then age4554=1;
 else if agegroup=5 then age5564=1;
 else if agegroup=6 then age6574=1;
 end;
if agegroup<6;
run;
%INCLUDE "...\PurchasedReportCards\CAHPS_AdultQ3FY2013\CONVERT.SAS";
%CONT2(DSN=SETUP, NUM=4, Y=R13018 R13048 R13027 R13031);
%CONT3(DSN=SETUP, NUM=12, Y=R13007 R13010 R13029 R13033
                            R13021 R13022 R13023 R13024
                            R13041 R13042 R13046 R13047);
/* GETTING NEEDED CARE */
%adjust(R13029,age1824 age2534 age3544 age4554 R13065);
%adjust(R13033,age1824 age2534 age3544 age4554 R13065);
%comp(1,R13029,R13033);
/* GETTING NEEDED CARE QUICKLY */
%adjust(R13007,age1824 age2534 age3544 age4554 R13065);
%adjust(R13010,age1824 age2534 age3544 age4554 R13065);
%comp(2,R13007,R13010);
/* HOW WELL DOCTORS COMMUNICATE */
%adjust(R13021,age1824 age2534 age3544 age4554 R13065);
%adjust(R13022,age1824 age2534 age3544 age4554
%adjust(R13023,age1824 age2534 age3544 age4554 R13065);
%adjust(R13024,age1824 age2534 age3544 age4554 R13065);
%comp(3,R13021,R13022,R13023,R13024);
/* CUSTOMER SERVICE */
%adjust(R13041,age1824 age2534 age3544 age4554 R13065);
%adjust(R13042,age1824 age2534 age3544 age4554 R13065);
%comp(4,R13041,R13042);
/* CLAIMS PROCESSING */
%adjust(R13046,age1824 age2534 age3544 age4554 R13065);
%adjust(R13047,age1824 age2534 age3544 age4554 R13065);
%comp(5,R13046,R13047);
/* RATING ALL HEALTH CARE: 0 - 10 */
%adjust(R13018,age1824 age2534 age3544 age4554 R13065);
%comp(6,R13018);
/* RATING OF HEALTH PLAN: 0 - 10 */
%adjust(R13048,age1824 age2534 age3544 age4554 R13065);
%comp(7,R13048);
```

```
/* RATING OF PERSONAL DR: 0 - 10 */
%adjust(R13027,age1824 age2534 age3544 age4554 R13065);
%comp(8,R13027);

/* SPECIALTY CARE */
%adjust(R13031,age1824 age2534 age3544 age4554 R13065);
%comp(9,R13031);
```

I.3.D Q3FY2013\PROGRAMS\PurchasedBENCHMARK\BENCHA04.SAS - Convert the Benchmark Scores Database into the WEB layout - Run Ouarterly.

```
* PROGRAM: BENCHA04.SAS
* TASK:
             Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6401-904)
* PURPOSE: Convert the Benchmark Scores Database into the WEB layout
* WRITTEN: 06/01/2000 BY KEITH RATHBUN
* INPUTS:
             1) Benchmark data sets with adjusted scores
                (COMPn_i.sas7bdat where n = composite number and i = group number)
* OUTPUT: 1) BENCHA04.sas7bdat - Combined Benchmark Scores Database in WEB layout
* INCLUDES: 1) LOADCAHO.INC - Format definitions for CAHPS Individual
                and composite data sets
* MODIFIED: 1) Dec 2000 by Keith Rathbun: Updated variable names for
                Q1 2000 Survey. For the quarterly survey group 8 (all benes)
                is being used as the benchmark for all groups (1-8). Thus,
                this group is copied and output to each of the other 7 groups.
             2) 01/23/2002 by Mike Scott: Updated variable names to be consistent
                with 2000 survey.
             4) 04/15/2002 by Mike Scott - Updated variable names for
                Q1 2002 Survey.
             5) 03/21/2003 by Mike Scott - Updated for 2003 survey.
             6) 06/26/2003 by Mike Scott - Updated for Q2 2003.
7) 07/03/2003 by Mike Scott - Added TIMEPD variable to be set to the period
                or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
                setting to 'Composite'.
             8) 07/18/2003 by Mike Scott - Added TIMEPD to FREQ. 9) 10/21/2003 by Mike Scott - Updated for Q3 2003.
            10) 03/23/2004 by Mike Scott - Updated for Q1 2004.
            11) 06/15/2004 by Regina Gramss - Updated for Q2 2004.
12) 09/2004 by Regina Gramss - Updated for Q3 2004.
            13) 05/2005 by Regina Gramss - Updated for Q1 2005.
            14) 10/2005
                          by Regina Gramss - Updated for Q3 2005.
            15) 03/24/2006 by Keith Rathbun - Updated for Q2 FY 2006.
                Added MACRO loop to process the 8 groups.
            16) 10/03/2006 by Justin Oh - Updated BENTYPE composite year to 2006 Q3.
            17) 12/18/2007 by Justin Oh - Updated BENTYPE composite year to 2006 Q4.
            18) 04/05/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q1.
19) 04/05/2007 by Justin Oh - Updated LIBNAME IN2 to be used for purchase RC programs.
            20) 09/04/2007 by Justin Oh - Updated BENTYPE composite year to 2007 Q3.
            21) 01/10/2008 by Keith Rathbun - Updated for Q1 FY 2008.
            22) 04/11/2008 by Justin Oh - Updated BENTYPE composite year to 2008 Q1.
            23) 06/13/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q2.
            24) 09/29/2008 by Keith Rathbun - Updated BENTYPE composite year to 2008 Q3.
            25) 04/10/2009 by Mike Rudacille - Changed variable names to reflect
                modifications to beneficiary reports necessary for V4
            26) 09/30/2009 by Mike Rudacille - Updated BENTYPE composite year to 2009 Q3.
            27) 12/17/2009 by Emma Ernst - Updated for Q1 2010
            28) 03/02/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q1.
            29) 06/19/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q2.
            30) 08/28/2010 by Mike Rudacille - Updated BENTYPE composite year to 2010 Q3.
            31) 12/02/2010 by Mike Rudacille - Updated for Q1 FY 2011.
32) 02/24/2011 by Mike Rudacille - Updated BENTYPE composite year to 2011 Q1.
            33) 12/10/2011 by Mike Rudacille - Updated for Q1 FY 2012.
            34) 3/5/2012 by Amanda Kudis - Updated for Q2 FY 2012.
35) 6/20/2012 by Amanda Kudis - Updated for Q3 FY 2012.
            36) 8/23/2012 by Christine Cheu- Updated for Q4 FY 2012.
            37) 12/28/2012 by Aimee Valenzuela - Updated for Q1 FY 2013.
            38) 03/23/2013 by Mike Rudacille - Updated for Q2 FY 2013.
* NOTES:
* 1) The following steps need to be run prior to this program:
     - BENCHA01.SAS - Extract Benchmark variables
     - BENCHA02.SAS - Recode Benchmark variables
     - BENCHA03.SAS - Construct Scores and SEMEAN datasets
```

```
* 2) The output file (BENCHA04.SAS7BDAT) will be run through the
   MAKEHTML.SAS program to generate the WEB pages.
*******************
* Assign data libraries and options
LIBNAME IN "DATA";
LIBNAME IN2 "qpredtest";
LIBNAME OUT "DATA";
LIBNAME LIBRARY "..\..\DATA\AFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER;
* Load Format definitions for CAHPS Individual and composite data sets.
%INCLUDE "..\PURCHASEDLOADWEB\LOADCAHQ.INC";
*******************
*************************
* Process Macro Input Parameters:
* 1) CNUM = Composite or rating variable number (1-10)
* 2) GNUM = Group number (1-8)
* 3) NVAR = Number of variables in the composite
* 4) VARS = List of individual variables for composite
* 5) SE = List of individual standard error variables
*******************************
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
***********************
* Assign value for BENTYPE composite year
%LET YEAR = "2013 Q2"; * Note that this is based on Calendar Year here;
*******************
* Convert benchmark scores datasets into WEB layout.
*************************
%IF &CNUM<6 %THEN %DO;
 DATA INP;
  SET IN2.COMP&CNUM;
   WHERE X=&GNUM;
  DATA INP;
  SET INP IN2.PROJERR&GNUM;
  RENAME SE=SESX;
RUN;
%END;
%ELSE %DO;
  DATA INP;
  SET IN2.PROJERR&GNUM;
  RENAME SE=SESX;
RUN;
%END;
  DATA COMP&CNUM._&Gnum;
    SET INP;
   IF _N_=1 THEN
   SET IN.COMP&CNUM._&GNUM;
    LENGTH MAJGRP $30;
    LENGTH REGION $25;
    LENGTH REGCAT $26;
    LENGTH BENTYPE $50;
    LENGTH BENEFIT $34;
                    ***MJS 07/03/03 Added line;
    LENGTH TIMEPD $35;
```

```
*****************
  * For now, assign SIG = 0
  SIG = 0;
  * Assign major group
                 MAJGRP = PUT(&Gnum,MAJGRPF.);
  ********************
  * Assign Region and Regcat
  REGION = "Benchmark";
  REGCAT = "Benchmark";
  ******************
  * Assign benefit and benefit type
  *************************
  IF &CNUM = 1 THEN BENEFIT = "Getting Needed Care";
  ELSE IF &CNUM = 2 THEN BENEFIT = "Getting Care Quickly";
  ELSE IF &CNUM = 3 THEN BENEFIT = "How Well Doctors Communicate";
  ELSE IF &CNUM = 4 THEN BENEFIT = "Customer Service";
  ELSE IF &CNUM = 5 THEN BENEFIT = "Claims Processing";
  ELSE IF &CNUM = 6 THEN BENEFIT = "Health Care";
  ELSE IF &CNUM = 7
                THEN BENEFIT = "Health Plan";
  ELSE IF &CNUM = 8 THEN BENEFIT = "Primary Care Manager";
  ELSE IF &CNUM = 9 THEN BENEFIT = "Specialty Care";
  BENTYPE = "Composite";
                    ***MJS 07/03/03 Changed from BENTYPE = PUT(&YEAR, $BENTYPF.);
  TIMEPD = PUT(&YEAR,$BENTYPF.); ***MJS 07/03/03 Added;
  IF &CNUM<6 THEN DO;
     IF X=&GNUM THEN DO;
  *******************
  * Assign composite score and SEMEAN
  SCORE = TOTADJ;
      SEMEAN = SORT(SDE**2+SESX**2);
  * Output composite score record for each REGION
      OTTTPTTT;
  END;
  *******************
  * Now, output the individual score records
  *************************
  IF &NVAR GT 1 &CNUM>5 THEN DO;
    ARRAY ITEMS &VARS;
    ARRAY SE
            &SE;
    LENGTH NAME $8;
    DO I = 1 TO DIM(ITEMS); DROP I;
      CALL VNAME(ITEMS(I),NAME);
      NAME = SUBSTR(NAME, 1, 6);
      SCORE = ITEMS(I);
      SEMEAN = SQRT(SE(I)**2+SESX**2);
      IF &NVAR GT 1 THEN
      BENTYPE = PUT(NAME, SBENTYPF.);
      TIMEPD = PUT(&YEAR, $BENTYPF.); ***MJS 07/03/03 Added;
     IF COMPRESS(UPCASE(NAME)) = COMPRESS(UPCASE(VAR)) THEN OUTPUT;
    END;
  END;
KEEP MAJGRP
   REGION
   REGCAT
   BENTYPE
   BENEFIT
         /*MJS 07/03/03 Added*/
   TIMEPD
   SEMEAN
   SCORE
```

```
SIG
  RUN;
%MEND;
*************************
* Process each of the 8 Groups.
************************
************************
%MACRO DOIT;
%DO I = 1 %TO 8;
  ******************
 * COMPOSITE # 1.
  * GETTING NEEDED CARE VARIABLES.
  ************************
  %PROCESS(CNUM=1, GNUM=&I, NVAR=2, VARS=R13029_&I R13033_&I,
      SE=S_R13029 S_R13033);
  *******************
  * COMPOSITE # 2.
  * GETTING CARE QUICKLY VARIABLES.
  *************************
  %PROCESS(CNUM=2, GNUM=&I, NVAR=2, VARS=R13007_&I R13010_&I,
      SE=S_R13007 S_R13010);
  *******************
  * COMPOSITE # 3.
  * HOW WELL DOCTORS COMMUNICATE.
  ************************
  %PROCESS(CNUM=3, GNUM=&I, NVAR=4, VARS=R13021_&I R13022_&I R13023_&I R13024_&I,
      SE=S_R13021 S_R13022 S_R13023 S_R13024);
  * COMPOSITE # 4.
  * CUSTOMER SERVICE.
  ************************
  %PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R13041_&I R13042_&I,
      SE=S_R13041 S_R13042);
  *******************
  * COMPOSITE # 5.
  * CLAIMS PROCESSING.
  ***********************
  %PROCESS(CNUM=5, GNUM=&I, NVAR=2, VARS=R13046_&I R13047_&I,
     SE=S_R13046 S_R13047);
  * INDIVIDUAL # 1.
  * RATING OF ALL HEALTH CARE: 0 - 10.
  ************************
  %PROCESS(CNUM=6, GNUM=&I, NVAR=1, VARS=R13018_&I, SE=S_R13018);
  * INDIVIDUAL # 2.
  * RATING OF HEALTH PLAN: 0 - 10.
  %PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R13048_&I, SE=S_R13048);
  ********************
  * INDIVIDUAL # 3.
  * RATING OF PERSONAL DOCTOR: 0 - 10.
  %PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R13027_&I, SE=S_R13027);
  * INDIVIDUAL # 4.
  * SPECIALTY CARE: 0 - 10.
  ************************
  %PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R13031_&I, SE=S_R13031);
%END;
%MEND DOIT;
```

```
%DOIT;
* STACK up all of the files into one final output dataset.
*************************
DATA OUT.BENCHA04;
   SET COMP1_1 COMP1_2 COMP1_3 COMP1_4 COMP1_5 COMP1_6 COMP1_7 COMP1_8
       COMP2_1 COMP2_2 COMP2_3 COMP2_4 COMP2_5 COMP2_6 COMP2_7 COMP2_8 COMP3_1 COMP3_2 COMP3_3 COMP3_4 COMP3_5 COMP3_6 COMP3_7 COMP3_8
                                                                             COMP2_8
       COMP4_1 COMP4_2 COMP4_3 COMP4_4 COMP4_5 COMP4_6 COMP4_7 COMP4_8
       COMP5_1 COMP5_2 COMP5_3 COMP5_4 COMP5_5 COMP5_6 COMP5_7 COMP5_8 COMP6_1 COMP6_2 COMP6_3 COMP6_4 COMP6_5 COMP6_6 COMP6_7 COMP6_8
       COMP7_1 COMP7_2 COMP7_3 COMP7_4 COMP7_5 COMP7_6 COMP7_7 COMP7_8
       COMP8_1 COMP8_2 COMP8_3 COMP8_4 COMP8_5 COMP8_6 COMP8_7 COMP8_8 COMP9_1 COMP9_2 COMP9_3 COMP9_4 COMP9_5 COMP9_6 COMP9_7 COMP9_8
    IF SCORE = . THEN DELETE;
RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: BENCHA04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHA04.SAS7BDAT - Combined Benchmark Scores Database in WEB layout";
PROC CONTENTS; RUN;
PROC FREQ;
TABLES TIMEPD BENEFIT BENTYPE MAJGRP REGION REGCAT
       REGION*REGCAT
      /MISSING LIST;
RUN;
```

I.4.A Q3FY2013\PROGRAMS\PurchasedReportCards\MPR_AdultQ3FY2013\PRVCOMPQ.sas - Calculate Preventive Care Composite Scores - Run Quarterly.

```
Project: DoD Reporting and Analysis 6077-410
Program:
           PRVCOMPQ.SAS
Author:
           Chris Rankin
           12/22/2000
Date:
Modified: 4/19/2001 By Keith Rathbun: Restrict population to
           xins_cov in(1,2,3,6). Use POSTSTR instead of
            adi cell.
Modified:
           10/25/01 By Daniele Beahm: Because no poststratification
           was done for q3 2000, changed POSTSTR back to ADJ_CELL
            04/09/02 modified macros the first three macros to create
            temporary datasets (instead of writing permanent datasets)
            07/15/02 By Mike Scott: Changed HCS021 to HCS022 for Q2 2002.
            01/12/03 By Mike Scott: Changed ADJ_CELL to COM_SAMP.
            03/21/03 By Mike Scott: Changed HCS024 to HCS031 for Q2 2002.
           04/01/03 By Mike Scott: Replaced HP_FLU with HP_CHOL. 04/30/03 By Mike Scott: Changed COM_SAMP to ADJ_CELL.
            CMPNUM1 from 4 to 5 and CMPNUM2 from 4 to 3.
            06/13/03 By Eric Schone. Changed composite mean & std err calculations
            to use weights from 2000 input data.
            07/23/03 By Mike Scott: Removed ..\PROGRAMS\ from INCLUDE.
            10/21/03 By Mike Scott: Updated for Q3 2003.
            01/07/04 By Mike Scott: Updated for Q4 2003.
            02/02/04 By Mike Scott: Set PRVVAR6, PRVVAR7, and PRVVAR8 in DATA NORMDATA
            to H04023, H04020, and H04031.
            03/24/04 By Mike Scott: Updated for Q1 2004.
            04/09/04 By Keith Rathbun: Added Service Affiliation variables to
            accomodate the consumer watch.
            06/22/04 By Regina Gramss: Updated for Q2 2004.
            09/2004 By Regina Gramss: Updated for Q3 2004, to use XTNEXREG
                                       vs. XREGION
            01/2005 By Regina Gramss: Updated to create "Last conus_q" for
                    Q4 2004, replace XTNEXREG with XSERVREG
            04/2005 By Regina Gramss: Updated for Q1 2005 (update 2004 field names)
            07/2005 By Regina Gramss: updated for Q2 2005
            10/2005 By Regina Gramss: Updated for Q3 2005
            12/2005 By Regina Gramss: Updated for Q4 2005
            03/24/2006 By Keith Rathbun: Updated for Q2 FY 2006. Changed reference
            to ADJ_CELL in 2006 data to be STRATUM.
            07/2006 By Justin Oh: updated for Q2 FY 2006
            08/22/2006 By Justin Oh
                    Changed XSERVREG for Overseas
                    Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                            IF XINS_COV IN (3)
                                                   THEN GROUP4 = 1
                            Since only XINS_COV IN (1,2,3,6) is kept.
                    Create XOCONUS for 2005 data.
                    Added XREGION in the keep statement for NORMDATA.
            10/04/2006 By Justin Oh Updated %LET INDATA and YRDATA.
            11/15/2006 By Justin Oh Added FIELDAGE in 4 keep statements
            12/22/2006 By Justin Oh Updated %LET INDATA and YRDATA HCS071_1.
            04/05/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS072_1.
            04/05/2007 By Justin Oh Added conditions for RC types
                       ReportCards OR PurchasedReportCards.
            05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
                       both Norm and Quarter datasets.
            05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
                       Groups 1,3, and 4 for new reservists logic.
            07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
                       Groups All, 4, 5, and 6.
            09/04/2007 By Justin Oh Updated %LET INDATA and YRDATA HCS074_1.
            01/10/2008 By Keith Rathbun, Updated %LET INDATA and YRDATA HCS081_1.
                       Also changed H07 variable names to be H08 to match 2008 survey
            04/11/2008 By Justin Oh Updated %LET INDATA and YRDATA HCS082_1.
            06/13/2008 By Keith Rathbun Updated %LET INDATA and YRDATA HCS083_1.
            04/20/2009 By Mike Rudacille Changed RCTYPE and certain variable names for
                       transition to V4 questionnaire.
            06/22/2009 By Keith Rathbun Updated %LET INDATA and YRDATA HCS093_1.
            09/30/2009 By Mike Rudacille Updated %LET INDATA and YRDATA HCS094_1.
            12/17/2009 By Emma Ernst Updated %LET INDATA and YRDATA HCS101_1.
```

```
Also changed H09 variables names to be H10 to match 2010 survey
             03/02/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS102_1.
             03/25/2010 By Mike Rudacille Changed HCS102_1 to HCS102_2.
                       Changed because HCS102_1 no longer contains FIELDAGE.
             06/19/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS103_2.
             08/28/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS104_2.
             12/02/2010 By Mike Rudacille Updated %LET INDATA and YRDATA HCS111_2.
                       Also changed variable names for 2011 survey.
             02/24/2011 By Mike Rudacille Updated %LET INDATA and YRDATA HCS112_2.
             03/31/2011 By Mike Rudacille Updated benchmarks for HP 2020.
             12/10/2011 By Mike Rudacille Updated %LET INDATA and YRDATA HCS121_2.
                        Also changed variable names for 2012 survey.
             12/21/2011 By Mike Rudacille Updated norm data from 2005 to 2011.
             03/05/2012 By Amanda Kudis Updated %LET INDATA and YRDATA HCS122_2.
             06/20/2012 By Amanda Kudis Updated for Q3FY2012.
             08/23/2012 By Christine Cheu Updated for Q4FY2012.
             11/03/2012 By Mike Rudacille Updated for handling of
                       Joint Service facilities
             12/28/2012 By Aimee Valenzuela Updated for Q1FY2013
             03/23/2013 By Mike Rudacille Updated %LET INDATA and YRDATA HCS132_2.
             05/17/2013 By Mike Rudacille Modified coded to address SUDAAN V11 handling
                        of PROC DESCRIPT without LEVELS. Now invoking PROC DESCRIPT
                        for TABLEVAR=USA (i.e. CONUS cases) similarly to the other cases,
                        except using LEVELS 1.
  Purpose:
             Calculate MPR Preventive Care Composites
             HCSyyq_2.sas7bdat
  Input:
  Output:
             RFINAL.sas7bdat
             CFINAL.sas7bdat
             MFINAL.sas7bdat
             SFINAL.sas7bdat
  Include
   Files:
             LOADCAHPO.INC
   Notes:
             Next program is Loadmprq.sas
            ***CHECK PARAMETER ASSIGNMENTS***
***********************
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 MLOGIC MPRINT
       NOFMTERR COMPRESS=YES;
                                                                      ***/
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = PurchasedReportCards;
                    "..\..\DATA\AFINAL";
LIBNAME IN
LIBNAME INNORM
                    "..\..\..\2011\DATA";
LIBNAME OUT
                    ".";
LIBNAME LIBRARY
                    "..\..\DATA\AFINAL\FMTLIB";
%LET WGT=FWRWT;
%LET NORMWGT = CFWT;
%LET NORMDAT = HCS11A_2;
%LET DEBUG=Y;
                /** Set to Y for Debug print of datasets **/
%LET INDATA=HCS133_2;
%LET YRDATA=HCS133 2;
/**** The following parameters are used in the Variance ****/
/**** calcuation macro for region and catchment area
**/
                                                **/ /* RSG - 04/2005 changed from 8 to 7
(eliminate cholesterol)*/
                                                     /* MER - 12/21/11 changed from 7 to 6
(eliminate 15 min access var)*/
%LET REGNUM=18; /** number of regions
                                                **/ /* RSG - 01/2005 CHANGED TO FIT THE 16
CATEGORIES OF XSERVREG */
                                                     /* JSO 08/24/2006 (16 TO 15) Changed
Overseas Regions*/
                                                     /* MER 11/03/2012 (15 TO 18) Joint Service
```

```
%LET CATCHNUM=9999; /** number of catchment areas **/
%LET CMPNUM1=4;
                 /** number of variables in first composite **/ /*RSG 04/2005 Changed
CMPNUM1 from 5 to 4*/
%LET CMPNUM2=2; /** number of variables in second composite **/ /*MJS 04/30/03 Changed
CMPNUM2 from 4 to 3*/
                                                                  /*MER 12/27/11 Changed
CMPNUM2 from 3 to 2*/
%LET COMPCNT=2; /** number of composites
                                                            **/
**** set up benchmarks for preventive services ;
**** note -- these are the hp 2000 goals
**** MER 3/31/11 - updated to hp 2020 goals
                   /** HP Goal for prenatal care
%LET GOALVAR1= .78;
                                                         **/
%LET GOALVAR2= .81;
                     /** HP Goal for Mammography
                                                         **/
                    /** HP Goal for Papsmear
                                                         **/
%LET GOALVAR3= .93;
                     /** HP Goal for Blood Pressure check **/
%LET GOALVAR4= .95;
%LET GOALVAR5= .90;
                     /** access goals
                                                         **/ /*04/2005 - RSG: DELETED
CHOLESTEROLE GOAL*/
%LET GOALVAR6= .90;
%INCLUDE "..\..\PURCHASEDLOADWEB\LOADCAHQ.INC";
/**** note -- output all data to a single dataset for macro */
/**** call
/**** MACROS are no longer called for catchment areas
^{\prime \star} 08/24/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats ^{\star \prime}
LIBNAME LIBRARY '...\...\2011\Data\fmtlib';
DATA NORMDATA(KEEP=XTNEXREG XSERVREG &WGT PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
                 DENV1-DENV&COMPNUM XSERVAFF FIELDAGE);
                 /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
 set INNORM.&NORMDAT(KEEP=MPRID XINS_COV HP_BP HP_MAMOG HP_PAP HP_PRNTL XTNEXREG
                         XENR_PCM XBNFGRP ENBGSMPL &NORMWGT DBENCAT
                         H11010 H11007 H11003 SERVAFF XREGION FIELDAGE XCATCH);
                     /* 08/24/2006 JSO Added XREGION in the keep statement to get XOCONUS */
                     /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
                     /* 05/10/2007 JSO Added H05006, DBENCAT in the keep statement */
                     /* 12/21/2011 MER For switch to 2011 norm data mapped the following vars:
* /
                     /* H05006 -> H11003
                     /* H05007 -> H11004 (subsequently taken out due to not being necessary */
                     /* H05019 -> H11007
                     /* H05022 -> H11010
                     /* H05030 and ADJ_CELL were dropped
********************
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
/*RSG 02/2005 Added codes to define XTNEXREG & XSERVAFF*/
 IF SERVAFF = 'A' THEN XSERVAFF = 1;
                                           *Army;
 ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;
                                          *Air Force;
 ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;
                                           *Navy;
 ELSE XSERVAFF = 4;
                                           *Other/unknown;
 IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
 IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
 IF XTNEXREG = . THEN DELETE;
 IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
added 10, 11*/
```

```
NXNS_COV = XINS_COV;
                                   /*JSO 04/26/2007 added for reservists logic*/
                                   /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
  IF DBENCAT NOT IN('IGR', 'GRD', 'IDG', 'DGR') AND NXNS_COV = 9 THEN DELETE;
  IF DBENCAT IN('GRD','IGR') AND H11003 = 3 THEN DO;
    NXNS_COV = 3;
    XENR\_PCM = .;
 END:
 PRVVAR1=HP_PRNTL;
                        /** prenatal care **/
 PRVVAR2=HP_MAMOG;
                          /** mammography **/
                        /** papsmear
                                             **/
 PRVVAR3=HP_PAP;
                         /** blood pressure **/
 PRVVAR4=HP_BP;
 PRVVAR5=H11010;
                          /** access var 1 **/
                          /** access var 2
 PRVVAR6=H11007;
/**** set up numerator and denominator for proportions ****/
 ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
 ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
 ARRAY DENOM(*) DENV1-DENV&COMPNUM;
 DO I = 1 TO &COMPNUM;
    IF I LE &CMPNUM1 THEN DO;
       IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    END;
    ELSE IF I GT &CMPNUM1 THEN DO;
       IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
 END;
 DROP I;
 DENV4=1;
/* 08/22/2006, JSO Create XOCONUS for 2005 data */
          XREGION=13 THEN XOCONUS=1;
   ELSE IF XREGION=14 THEN XOCONUS=2;
   ELSE IF XREGION=15 THEN XOCONUS=3;
/*RSG 02/2005 Added codes to define XSERVREG CACSMPL*/
   IF XTNEXREG = 1 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 1;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
      ELSE XSERVREG = 5;
   END;
   IF XTNEXREG = 2 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 6;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
      ELSE XSERVREG = 10;
   END;
   IF XTNEXREG = 3 THEN DO;
      IF XSERVAFF = 1 THEN XSERVREG = 11;
      ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
      ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
      ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
      ELSE XSERVREG = 15;
   IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
      IF XOCONUS = 1 THEN XSERVREG = 16;
      ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
      ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
   END;
```

```
RENAME &NORMWGT = &WGT;
run;
/* 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats */
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
DATA &YRDATA(KEEP=BGROUP MHS USA XSERVAFF CACSMPL &WGT TMP_CELL
                  PRVVAR1-PRVVAR&COMPNUM. NUMV1-NUMV&COMPNUM.
                 DENV1-DENV&COMPNUM XTNEXREG XSERVREG FIELDAGE);
                  /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
 SET IN.&INDATA(KEEP=XINS_COV HP_BP XTNEXREG HP_MAMOG HP_PAP HP_PRNTL /*RSG 04/2005 DELETE
HP_CHOL*/
                     XREGION SERVAFF XENR_PCM XBNFGRP ENBGSMPL &WGT CACSMPL XCATCH
                     STRATUM H13010 H13007 H13004 H13003 D_HEALTH FIELDAGE DBENCAT);
                      /* 11/15/2006 JSO Added FIELDAGE in the keep statement */
                      /* 05/10/2007 JSO Added H07006, DBENCAT in the keep statement */
*************************
* For quarterly reports, catchment level reporting is not done
* so the value of cellp is set to 1.
* For annual reporting purposes, cellp will need to be assigned
* to geocell
*************************
 IF SERVAFF = 'A' THEN XSERVAFF = 1;
                                            *Army;
 ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2; *Air Force;
 ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3; *Navy;
 ELSE XSERVAFF = 4;
                                             *Other/unknown;
 IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
 CELLP = 1;
 LENGTH TMP_CELL 8;
 TMP_CELL = STRATUM;
                      /* Make STRATUM a numeric variable */
 IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
  IF XTNEXREG = . THEN DELETE;
   \text{IF XINS\_COV NOT IN} (1,2,3,6,9,10,11) \text{ THEN DELETE}; \\ \text{$/$^{\text{JSO}}$ 07/30/2007, Added 9*/ $/^{\text{MER}}$ 07/12/11 } 
Added 10,11 */
 NXNS_COV = XINS_COV; /*JSO 05/14/2007 added for reservists logic*/
                        /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
  IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
  IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
    NXNS_COV = 3;
    XENR\_PCM = .;
 END;
 PRVVAR1=HP_PRNTL; /** prenatal care **/
PRVVAR2=HP_MAMOG; /** mammography **/
PRVVAR3=HP_PAP; /** papsmear **/
 PRVVAR3=HP_PAP;
                          /** blood pressure **/
  PRVVAR4=HP_BP;
  /*RSG 04/2005 - delete cholesterol, renumber PRVVAR below*/
 PRVVAR5=H13010;
                         /** access var 1 **/
                          /** access var 2 **/
 PRVVAR6=H13007;
/**** set up numerator and denominator for proportions ****/
  ARRAY PRVVAR(*) PRVVAR1-PRVVAR&COMPNUM;
 ARRAY NUMER(*) NUMV1-NUMV&COMPNUM;
 ARRAY DENOM(*) DENV1-DENV&COMPNUM;
 DO I = 1 TO &COMPNUM;
    IF I LE &CMPNUM1 THEN DO;
       IF PRVVAR(I) = 1 THEN NUMER(I) = 1;
       ELSE NUMER(I)=0;
       IF PRVVAR(I) IN (1, 2) THEN DENOM(I)=1;
    ELSE IF I GT &CMPNUM1 THEN DO;
        IF PRVVAR(I) IN (1, 2) THEN NUMER(I)=1;
```

```
ELSE NUMER(I)=0;
       IF PRVVAR(I) > 0 THEN DENOM(I)=1;
    END;
 END;
 DROP I;
 DENV4=1;
          /* set up dummy for MHS-- include all observations */
 /* 08/22/2006, JSO Create XOCONUS for 2005 data */
        XREGION=13 THEN XOCONUS=1;
 ELSE IF XREGION=14 THEN XOCONUS=2;
 ELSE IF XREGION=15 THEN XOCONUS=3;
 IF XTNEXREG = 1 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 1;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
    ELSE XSERVREG = 5;
 END:
 IF XTNEXREG = 2 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 6;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
    ELSE XSERVREG = 10;
 END;
  IF XTNEXREG = 3 THEN DO;
    IF XSERVAFF = 1 THEN XSERVREG = 11;
    ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
    ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
    ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
    ELSE XSERVREG = 15;
 END;
 IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
          XOCONUS = 1 THEN XSERVREG = 16;
    ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
    ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
*************
* Assign indicator of CONUS based on XTNEXREG. CONUS stands for
* Contential United States it but includes both Alaska and Hawaii.
* 1/16/09 Changed CONUS to USA.
IF XTNEXREG IN (1,2,3) THEN USA=1;
                                                               /*RSG 01/2005 OVERALL CONUS*/
 ELSE IF XTNEXREG = 4 THEN USA=2;
* Prime enrollees *;
  IF (NXNS_COV IN (1,2,6) AND H13004>=2) THEN DO;
    BGROUP=1;
    OUTPUT;
 END;
* Enrollees with military PCMs *; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
    (XENR_PCM IN (1,2,6) AND H13004>=2) THEN DO;
    BGROUP=2;
    OUTPUT;
 END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    (XENR_PCM IN (1,2) AND H13004>=2) THEN DO;
    BGROUP=2;
    OUTPUT;
 END;
* Enrollees with civilian PCMs *; /*JSO 04/05/2007, added conditions for RC type*/
```

```
IF "&RCTYPE" = 'ReportCards' AND
    (XENR_PCM IN (3,7) AND H13004>=2) THEN DO;
    BGROUP=3;
    OUTPUT;
 END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
    BGROUP=3;
                                                             /*MER 07/12/11 Added
10*/
    OUTPUT;
 END;
* Nonenrollees *;
 IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
                             /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11 Added 10*/
    OUTPUT;
 END;
              *;
* Active duty
 IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
    BGROUP=5; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
 END;
* Active duty dependents *;
 IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
    BGROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
    OUTPUT;
 END;
* Retirees *;
 IF XBNFGRP IN (3,4) THEN DO;
    BGROUP=7;
    OUTPUT;
 END;
* All beneficiaries *;
 BGROUP=8;
 OUTPUT;
RIIN;
DATA HCSDB;
SET &YRDATA;
RUN;
*************
*** a file for each analytical unit
*****************
PROC SORT DATA=HCSDB; BY TMP_CELL;
****************
***** Sudaan macro to calculate standard errors *****
**** there are three output datasets created
***** (XTNEXREG, XSERVREG, MHS, XSERVAFF)
***** Note: 7/10/2000 use CONUS for MHS
                                          ****
                                         ****
***** Note: there are 8 variables and 8 groups
***** Note: 1/16/09 Changed CONUS to USA
%MACRO A_SUDAAN(TABLEVAR);
*** set the number of levels in the proc descript ***;
*** for region or catchment
```

```
%IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
     %LET ENDNUM=4;
     %LET PREF=S;
                         /** dataset prefix for service affiliation data
%END;
 %IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
     %LET ENDNUM=&REGNUM;
                         /** dataset prefix for region data
 %END;
 %ELSE %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
    %LET ENDNUM=1;
                         /** dataset prefix for CONUS data **/
    %LET PREF=C;
 %ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
     %LET ENDNUM=5;
                       /** MER 11/03/2012 Change from 4 to 5 for Joint Service **/
     %LET PREF=M;
 %END;
%DO I=1 %TO &GRPNUM;
                      /** 8 groups
     %DO J=1 %TO &COMPNUM; /** 6 variables **/
        DATA INDATA&I.&J(KEEP=&WGT MHS USA XSERVAFF XTNEXREG XSERVREG CACSMPL
                              XSERVAFF NUMV&J DENV&J TMP_CELL);
           WHERE XSERVREG > 0 AND BGROUP=&I AND DENV&J > 0;
           %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
               IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /*MER 11/03/2012 Changed from 4 to 5
for Joint Service */
           %END;
                  %IF %UPCASE(&TABLEVAR)=USA %THEN %DO;
                     IF USA NE 1 THEN DELETE;
                  %END;
                  %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
                     IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
         RIIN;
*** Calculate values for regions, catchment areas ****;
         PROC DESCRIPT DATA=INDATA&I.&J DESIGN=STRWR NOPRINT;
            WEIGHT &WGT;
            SETENV DECWIDTH=4;
            NEST TMP_CELL / MISSUNIT;
            VAR NUMV&J;
            TABLES &TABLEVAR;
            SUBGROUP &TABLEVAR;
            LEVELS & ENDNUM;
            OUTPUT SEMEAN/ TABLECELL=DEFAULT
            FILENAME=&PREF.GRP&I.V&J;
         RUN;
***** first, put all variables into one dataset for each group *****;
         DATA &PREF.GRP&I.V&J;
            SET &PREF.GRP&I.V&J;
            IF SEMEAN NE .;
           MHS=1;
         RIIN;
         %IF &J=1 %THEN %DO;
            DATA &PREF.SEGRP&I;
               SET &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
               GROUP=&I;
               IF SEMEAN NE .;
               RENAME SEMEAN = SERRV&J;
            RUN;
         %END;
         %ELSE %DO;
            DATA &PREF.SEGRP&I;
               MERGE &PREF.SEGRP&I &PREF.GRP&I.V&J(KEEP=&TABLEVAR SEMEAN);
               BY &TABLEVAR;
```

```
GROUP=&I;
             RENAME SEMEAN = SERRV&J;
           RUN;
        %END;
    %END;
***** Put all data into one dataset *****
**** Note: changed output dataset ****
***** to include group
                                  ****;
    %IF &I=1 %THEN %DO;
       DATA &PREF.SERR;
         SET &PREF.SEGRP&I;
         KEEP GROUP &TABLEVAR SERRV1-SERRV&COMPNUM;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.SERR;
         SET &PREF.SERR
         &PREF.SEGRP&I;
       RUN;
    %END;
****** DEBUG PRINT *****;
    %IF &DEBUG=Y %THEN %DO;
       %IF &I=&GRPNUM AND &PREF=R %THEN %DO;
           PROC PRINT DATA=&PREF.SERR;
              VAR &TABLEVAR GROUP SERRV1-SERRV&COMPNUM;
           RUN;
       %END;
    %END;
%END;
%MEND A_SUDAAN;
%A_SUDAAN (USA);
%A_SUDAAN (XSERVAFF);
%A_SUDAAN (XSERVREG);
%A_SUDAAN (XTNEXREG);
***********
*** and create a file for each analytical unit
%MACRO GETCORR(BYVAR);
%IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
%ELSE %IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
PROC SORT DATA=HCSDB; BY &BYVAR;
RUN;
%DO I = 1 %TO &GRPNUM;
   PROC CORR NOPRINT DATA=HCSDB OUTP=&PREF.CORRC&I;
      %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %DO;
        WHERE BGROUP=&I AND 1 <= XSERVAFF <= 5;
                                                /** MER 11/03/2012 Changed 4 to 5 for Joint
Service **/
      %END;
         %IF %UPCASE(&BYVAR)=USA %THEN %DO;
           WHERE BGROUP=&I AND USA = 1;
         %END;
      %ELSE %DO;
        WHERE BGROUP=&I;
      %END;
      BY &BYVAR;
```

```
VAR PRVVAR1-PRVVAR&COMPNUM;
       WITH PRVVAR1-PRVVAR&COMPNUM;
       WEIGHT &WGT;
    RUN;
    DATA &PREF.CORRC&I;
     SET &PREF.CORRC&I;
     WHERE _TYPE_= "CORR";
     GROUP=&I;
     ARRAY OLD PRVVAR1-PRVVAR&COMPNUM;
     ARRAY NEW CORV1-CORV&COMPNUM;
     DO J = 1 TO &COMPNUM;
        NEW(J) = OLD(J);
     END;
     DROP J PRVVAR1-PRVVAR&COMPNUM;
    RUN;
    %IF &I=1 %THEN %DO;
       DATA &PREF.CORRC;
        SET &PREF.CORRC&I;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.CORRC;
        SET &PREF.CORRC
        &PREF.CORRC&I;
       RUN;
    %END;
    %IF &DEBUG=Y %THEN %DO;
        %IF &I=&COMPNUM AND &PREF=R %THEN %DO;
           PROC PRINT DATA=&PREF.CORRC;
             WHERE GROUP=1;
          RUN;
        %END;
    %END;
%END;
*** Flatten dataset(for each region, condense matrix to one row) ***;
%DO K=1 %TO &COMPNUM;
    DATA &PREF.CORR&K;
     SET &PREF.CORRC;
      WHERE _NAME_ = "PRVVAR&K";
     ARRAY CORR (&COMPNUM) CORV1-CORV&COMPNUM;
     ARRAY CORR&K (&COMPNUM) CORV&K.1-CORV&K.&COMPNUM;
     DO L=1 TO &COMPNUM;
        CORR&K(L)=CORR(L);
     END;
     KEEP GROUP &BYVAR CORV&K.1-CORV&K.&COMPNUM;
    RUN;
    %IF &K=1 %THEN %DO;
       DATA &PREF.CORR;
         SET &PREF.CORR&K;
       RUN;
    %END;
    %ELSE %DO;
       DATA &PREF.CORR;
        MERGE &PREF.CORR(IN=IN_1) &PREF.CORR&K(IN=IN_2);
         BY GROUP &BYVAR;
      RUN;
    %END;
    %IF &DEBUG=Y %THEN %DO;
       %IF &PREF=R %THEN %DO;
          PROC PRINT DATA=&PREF.CORR;
             WHERE GROUP=1;
          RUN;
       % END;
     %END;
```

```
%END;
%MEND GETCORR;
%GETCORR(USA);
%GETCORR(XSERVAFF);
%GETCORR(XSERVREG);
%GETCORR(XTNEXREG);
***************
*** Macro to derive composites for each
*** beneficiary group, level
*** output one dataset for each group
%MACRO GETPROP(BYVAR);
%LET START = %EVAL(&CMPNUM1+1);
%IF %UPCASE(&BYVAR)=XSERVREG %THEN %LET PREF=R;
%ELSE %IF %UPCASE(&BYVAR)=USA %THEN %LET PREF=C;
%ELSE %IF %UPCASE(&BYVAR)=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF %UPCASE(&BYVAR)=XTNEXREG %THEN %LET PREF=S;
PROC MEANS NWAY NOPRINT DATA=HCSDB;
   CLASS BGROUP &BYVAR;
   VAR NUMV1-NUMV&COMPNUM
       DENV1-DENV&COMPNUM;
   WEIGHT &WGT;
   OUTPUT OUT= &PREF.CMPSUM(DROP = _TYPE_)
   SUM = ;
RIIN;
PROC MEANS NWAY NOPRINT DATA=normdata;
  CLASS &BYVAR;
      DENV1-DENV&COMPNUM;
   WEIGHT &wgt.;
   OUTPUT OUT= &PREF.norms(DROP = _TYPE_)
   SUM = nrmv1-nrmv&compnum;
PROC MEANS NWAY NOPRINT DATA=HCSDB;
   CLASS BGROUP &BYVAR;
   VAR DENV1-DENV&COMPNUM;
   OUTPUT OUT=&PREF.DGFR(DROP=_TYPE_ _FREQ_)
   SUM= NOBSV1-NOBSV&COMPNUM;
data &pref.cmpsum;
if _n_=1 then set &pref.norms;
set &pref.cmpsum;
proc sort data=&pref.cmpsum; by bgroup &byvar;
DATA &PREF.CMPSUM;
   MERGE &PREF.CMPSUM(RENAME=(_FREQ_=N_OBS))
        &PREF.DGFR;
   BY BGROUP &BYVAR;
   %IF &PREF=M %THEN %DO; /** added 7/10/2000 **/
      WHERE 1 <= XSERVAFF <= 5; /** MER 11/03/2012 Changed 4 to 5 for Joint Service **/
   %END;
   %ELSE %IF &PREF=C %THEN %DO;
       WHERE USA = 1;
  **** set up group variable **;
   RENAME BGROUP=GROUP;;
  **** set up proportions, and composites **;
  ARRAY PROPORT PROPV1-PROPV&COMPNUM;
  ARRAY NUMER NUMV1-NUMV&COMPNUM;
```

```
ARRAY DENOM DENV1-DENV&COMPNUM;
  array norm nrmv1-nrmv&compnum;
  DO J=1 TO DIM(PROPORT);
     PROPORT(J) = NUMER(J)/DENOM(J);
  END;
  DROP J;
  **** composites **;
** added goalvars to datastep, 5/30/2000
** taken out of temporary array for variance calculations;
** and used, kept as variables
 GOALVAR1=&GOALVAR1;
 GOALVAR2=&GOALVAR2;
 GOALVAR3=&GOALVAR3;
 GOALVAR4=&GOALVAR4;
 GOALVAR5=&GOALVAR5;
 GOALVAR6=&GOALVAR6;
/*RSG 04/2005 - delete goal8 since chol eliminated*/
** the weight for preventive service is defined as the
** proportion of the denominator for that service to the
** composite denominator
** healthy people 2000 goals -- used as benchmarks
 ARRAY
         SVCWGT(&COMPNUM) WGTV1-WGTV&COMPNUM;
 ARRAY
         BMARK(&COMPNUM) GOALVAR1-GOALVAR&COMPNUM;
 ARRAY WGTBMARK(&COMPNUM) WTDV1-WTDV&COMPNUM;
 array comp(&compnum) cmpv1-cmpv&compnum;
cpden1=sum(of nrmv1-nrmv&cmpnum1);
cpden2=sum(of nrmv&start-nrmv&compnum);
 DO K = 1 TO &COMPNUM;
     IF K < &START THEN SVCWGT(K) = norm(K)/CPDEN1;</pre>
     ELSE SVCWGT(K) = norm(K)/CPDEN2;
     WGTBMARK(K) = SVCWGT(K)*BMARK(K);
     comp(k)=svcwgt(k)*proport(k);
 END;
 DROP K;
 CPBMK1=SUM(OF WTDV1-WTDV&CMPNUM1);
 CPBMK2=SUM(OF WTDV&START-WTDV&COMPNUM);
 comp1=sum(of cmpv1-cmpv&cmpnum1);
comp2=sum(of cmpv&start-cmpv&compnum);
DROP WGTV1-WGTV&COMPNUM WTDV1-WTDV&COMPNUM
      NUMV1-NUMV&COMPNUM;
RIIN;
%IF &DEBUG=Y AND &PREF=R %THEN %DO;
    PROC PRINT DATA=&PREF.CMPSUM; /* print out final dataset */
    RUN;
                                      /* for region to check
%END;
%MEND GETPROP;
%GETPROP(USA);
%GETPROP(XSERVAFF);
%GETprop(XSERVREG);
%GETPROP(XTNEXREG);
**************
** since MHS benchmarks will be displayed ****
                                                 ****
** set up adjustment factor to apply to
** each analytical unit's composite benchmarks
                                                 ****
****************
*** Macro to merge 3 datasets for each
*** called by analytical unit
*** output final dataset for
                                              *****
```

```
*** XSERVAFF, XSERVREG, XTNEXREG, MHS (USA)
*******************
PROC FORMAT; /*RSG 02/2005 - hardcoded in prog to have caps vs format in loadcahq.inc*/
  VALUE REGIONF
     0 = "USA MHS "
     1 = "NORTH"
     2 = "SOUTH"
     3 = "WEST"
     4 = "OVERSEAS"
%MACRO GETSIG(BYVAR);
%LET START = %EVAL(&CMPNUM1+1);
%LET NEXT = %EVAL(&CMPNUM1+2);
%IF &BYVAR=XSERVREG %THEN %LET PREF=R;
%ELSE %IF &BYVAR=USA %THEN %LET PREF=C;
%ELSE %IF &BYVAR=XSERVAFF %THEN %LET PREF=M;
%ELSE %IF &BYVAR=XTNEXREG %THEN %LET PREF=S;
DATA OUT.&PREF.FINAL(KEEP= MAJGRP REGION REGCAT GOALVAR1-GOALVAR&COMPNUM
               SIGV1-SIGV&COMPNUM SCORV1-SCORV&COMPNUM
               CPSIG1-CPSIG&COMPCNT CP1SE CP2SE
               CSCOR1-CSCOR&COMPCNT CPBMK1-CPBMK&COMPCNT
               SERRV1-SERRV&COMPNUM CP1SE CP2SE
               COMP1 COMP2 PROPV1-PROPV&COMPNUM
               DFSCR1-DFSCR&COMPNUM DF_CP1 DF_CP2
               NOBSV1-NOBSV&COMPNUM CPOBS1-CPOBS&COMPCNT
               DENV1-DENV&COMPNUM CPDEN1-CPDEN&COMPCNT);
   FORMAT MAJGRP $30. REGION $30. REGCAT $30.; /* MER 11/11/12 - Updated REGION/REGCAT for Joint
Service facilities */
       MERGE &PREF.CMPSUM(IN=IN_PROP) &PREF.CORR
       &PREF.SERR;
       BY GROUP &BYVAR;
       IF IN_PROP;
%DO Z=1 %TO &COMPCNT;
           CSCOR&Z=COMP&Z.*100;
   %END;
  ** MAJGRP -- text field for group
          GROUP=1 THEN MAJGRP="Prime Enrollees
   ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
   ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
   ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
   ELSE IF GROUP=5 THEN MAJGRP="Active Duty
   ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents
   ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents
   ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries
  **** REGION AND REGCAT SETUP
   %IF &PREF=S %THEN %DO;
       REGCAT=PUT(XTNEXREG,REGIONF.);
       REGION=PUT(XTNEXREG,REGIONF.);
   %END;
    %else %IF &PREF=C %THEN %DO;
      REGION="USA MHS";
       REGCAT="USA MHS";
    %END;
    %ELSE %IF &PREF=R %THEN %DO;
       REGION=PUT(XSERVREG, SERVREGO.);
       REGCAT=PUT(XSERVREG, SERVREGO.);
   %ELSE %IF &PREF=M %THEN %DO;
                                                   /** RSG 1/2005 Add codes for service
grouping **/
       REGION=PUT(XSERVAFF, XSERVAFF.);
       REGCAT=PUT(XSERVAFF, XSERVAFF.);
   **** setup t statistics, degreees of freedom **;
```

```
TSTAT { & COMPNUM } T_V1-T_V& COMPNUM;
 ARRAY
 ARRAY
           BMARK{&COMPNUM} GOALVAR1-GOALVAR&COMPNUM;
 ARRAY STNDERR { & COMPNUM } SERRV1-SERRV&COMPNUM;
 ARRAY SERRSOR & COMPNUM SESOV1-SESOV& COMPNUM;
 ARRAY
            DEGF{&COMPNUM} DFSCR1-DFSCR&COMPNUM;
 ARRAY
           DENOM{&COMPNUM} DENV1-DENV&COMPNUM;
 ARRAY PROPORT & COMPNUM PROPV1-PROPV& COMPNUM;
         SCORE { & COMPNUM } SCORV1-SCORV& COMPNUM;
 ARRAY
 ARRAY
         PVALUE (&COMPNUM) PVALV1-PVALV&COMPNUM;
 ARRAY
            SIG(&COMPNUM) SIGV1-SIGV&COMPNUM;
            NOBS (&COMPNUM) NOBSV1-NOBSV&COMPNUM;
 ARRAY
 arrav
            norm{&compnum} nrmv1-nrmv&compnum;
** get the item variance, t-statistics, df, p-values **;
** and whether significant
 DO I=1 TO &COMPNUM;
      SERRSQR[I]=STNDERR[I]**2; /* Item variance */
SCORE[I]=PROPORT[I]*100; /* Score (prop. * 100) */
      IF STNDERR{I} > 0 THEN TSTAT{I}=(PROPORT{I}-BMARK{I})/STNDERR{I};
      ELSE TSTAT{I}=.;
      DEGF{I}=NOBS{I}-1;
      PVALUE{I}=(1-PROBT(ABS(TSTAT{I}),DEGF{I}))*2;
      IF PVALUE{I} GE .05 THEN SIG{I}=0;
      ELSE IF PVALUE{I} < .05 THEN DO;</pre>
         IF PROPORT(I) > BMARK(I) THEN SIG(I)=1;
          IF PROPORT{I} < BMARK{I} THEN SIG{I}=-1;</pre>
      END;
 END;
 DROP I;
** multiply each item pair std. errors and correlation coefficients **;
** preventive care composite
ARRAY SEwC1 { & CMPNUM1 } SEwV1-SEwV& CMPNUM1;
 ARRAY SERRC1 { & CMPNUM1 } SERRV1-SERRV& CMPNUM1;
 DO J = 1 TO CMPNUM1;
      ARRAY SMEAN&J{&CMPNUM1} SEMV&J.1-SEMV&J.&CMPNUM1;
      ARRAY CORVAR&J (&CMPNUM1) CORV&J.1-CORV&J.&CMPNUM1;
      DO K=1 TO &CMPNUM1;
          SMEAN&J{K}=SERRV&J*SERRC1{K}*CORVAR&J{K}*norm{K}*nrmV&J;
      SEMV&J.&J=0;
      sewv&j= (nrmV&j**2)*SESQV&j;/** don't count in final standard error calculation **/
 %END;
 DROP K;
 ** multiply each item pair std. errors and correlation coefficients **;
** access to care composite
 ARRAY SERRC2{&CMPNUM2} SERRV&START-SERRV&COMPNUM;
 %DO L = &START %TO &COMPNUM;
      ARRAY SMEAN&L{&CMPNUM2} SEMV&L.&START-SEMV&L.&COMPNUM;
      ARRAY CORVAR&L &CMPNUM2 CORV&L.&START-CORV&L.&COMPNUM;
      DO M=1 TO &CMPNUM2;
          SMEAN&L{M}=SERRV&L*SERRC2{M}*CORVAR&L{M};
      SEMV&L.&L=0; /** don't coun't in final standard error calculation **/
 DROP M;
** calculate composite t-statistic, pvalue, and whether significant **;
** for composites
%DO P=1 %TO &COMPCNT;
      %IF &P=1 %THEN %DO;
      ** composite standard error comprised of two parts **;
          CP&P.SE1=SUM(OF SEwV1-SEwV&CMPNUM1);
          CP&P.SE2=SUM(OF SEMV11-SEMV&CMPNUM1.&CMPNUM1.);
          cpobs&p=sum(of nobsv1-nobsv&cmpnum1);
      %END;
      %ELSE %DO;
          CP&P.SE1=SUM(OF SESOV&START-SESOV&COMPNUM);
          CP&P.SE2=SUM(OF SEMV&START.&START.-SEMV&COMPNUM.&COMPNUM.);
          cpobs&p=sum(of nobsv&start-nobsv&compnum);
      %END;
** add the two parts of the composite standard error **;
```

```
** calculate the composite t statistics and p-values **;
  ** determine whether differences are sigificant
        CP&P.SE=SQRT(CP&P.SE2+CP&P.SE1)/CPden&P;
        IF CP&P.SE > 0 THEN CP_T&P.=(COMP&P.-CPBMK&P.)/CP&P.SE;
        ELSE CP_T&P.= .;
       DF_CP&P.=CPOBS&P. - 1;
        CP_P&P.=(1-PROBT(ABS(CP_T&P.),DF_CP&P.))*2;
        IF CP_P&P GE .05 THEN CPSIG&P=0;
        ELSE IF CP_P&P < .05 THEN DO;
           IF COMP&P. > CPBMK&P THEN CPSIG&P= 1;
           ELSE IF COMP&P. < CPBMK&P THEN CPSIG&P=-1;
    %END;
   OUTPUT OUT.&PREF.FINAL;
RUN;
%MEND GETSIG;
%GETSIG(USA);
%GETSIG(XTNEXREG);
%GETSIG(XSERVREG);
%GETSIG(XSERVAFF);
```

I-81

I.4.B Q3FY2013\PROGRAMS\PurchasedReportCards\MPR_AdultQ3FY2013\smoking_BMI.sas - Calculates Healthy Behavior Composite Scores - Run Quarterly.

```
Project:
              DoD Reporting and Analysis 6077-410
   Program:
              SMOKING_BMI.SAS
              Calculate Smoking Rate and Smoking Cessation
   Purpose:
              for each region-service affiliation and
              conus-service affiliation groups.
   Date:
              1/31/2005
  Author:
             Regina Gramss
  Modified:
             1) 04/2005 By Regina Gramss, Updated for Q1 2005.
              2) 12/2005 By Regina Gramss, Updated for Q4 2005.
              3) 01/2006 By Regina Gramss - Updated for 2005 annual data. Normalize
                 with 2005 data and not 2000. Standardize using age/sex and MPCSMPL
                 (military personnel category). Update smoking cessation
                 calculation with new formula to correspond more to HEDIS.
                 weight (CFWT) and use STRATUM as TMP_CELL.
              4) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
              5) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
              6) 08/24/2006 By Justin Oh, REGNUM changed from 16 to 24.
                 Changed XSERVREG for Overseas
                 Changed IF XINS_COV IN (3,4,5) THEN GROUP4 = 1 to
                         IF XINS_COV IN (3)
                                                THEN GROUP4 = 1
                 Since only XINS_COV IN (1,2,3,6) is kept.
                 Create XOCONUS for 2005 data.
                 Added/Moved LIBRARY Libname to use both Quarter/Annual Formats.
              7) 10/04/2006 By Justin Oh, Updated %LET DSN and CURRENT.
              8) 12/22/2006 By Justin Oh, Updated %LET DSN HCS071_1 and CURRENT October, 2006.
              9) 02/02/2007 By Justin Oh, Added "s" to Healthy Behaviors
             10) 04/05/2007 By Justin Oh, Updated %LET DSN HCS072_1 and CURRENT January, 2007.
             11) 04/05/2007 By Justin Oh, Added conditions for RC types
                            ReportCards OR PurchasedReportCards.
             12) 05/10/2007 By Justin Oh, Added codes, variables for new reservists logic for
                            both Norm and Ouarter datasets.
             13) 05/15/2007 By Justin Oh, Changed XINS_COV to NXNS_COV to assign
                            Groups 1,3, and 4 for new reservists logic.
             14) 07/30/2007 By Justin Oh, Added added DBENCAT conditions to assign
                            Groups All, 4, 5, and 6.
             15) 09/04/2007 By Justin Oh, Updated %LET DSN HCS074_1 and CURRENT July, 2007.
             16) 01/10/2008 By Keith Rathbun, Updated %LET DSN HCS081_1 and CURRENT October,
2007.
                            Also changed H07 variable names to be H08 to match 2008 survey.
             17) 04/11/2008 By Justin Oh, Updated %LET DSN HCS082_1 and CURRENT January, 2008.
             18) 06/13/2008 By Keith Rathbun, Updated %LET DSN HCS083_1 and CURRENT April, 2008.
             19) 03/11/2009 By Keith Rathbun, Updated %LET DSN HCS092_1 and CURRENT January,
2009.
             20) 04/20/2009 By Mike Rudacille, Switched from 2005 to 2007 benchmark data for
transition to
                 V4 questionnaire.
             21) 05/05/2009 By Mike Rudacille, Updated for 2008 benchmark data.
             22) 06/22/2009 By Keith Rathbun, Updated %LET DSN HCS093_1 and CURRENT April, 2009.
                 Changed weight variable from FWRWT_V4 back to FWRWT.
             23) 09/30/2009 By Mike Rudacille, Updated %LET DSN HCS094_1 and CURRENT July, 2009.
             24) 12/17/2009 by Emma Ernst, Updated %LET DSN HCS101_1 and CURRENT October, 2009.
                            Also changed H09 variables names to be H10 to match 2010 survey.
             25) 03/02/2010 By Mike Rudacille, Updated %LET DSN HCS102_1 and CURRENT January,
2010.
             26) 03/25/2010 By Mike Rudacille, Changed HCS102_1 to HCS102_2.
                            Changed because HCS102_1 no longer contains FIELDAGE.
             27) 03/30/2010 By Mike Rudaiclle, Updated for 2009 benchmark data.
             28) 06/19/2010 By Mike Rudacille, Updated %LET DSN HCS103_2 and CURRENT April, 2010.
             29) 08/28/2010 By Mike Rudacille, Updated %LET DSN HCS104_2 and CURRENT July, 2010.
             30) 12/02/2010 By Mike Rudacille, Updated %LET DSN HCS111_2 and CURRENT October,
2010.
                            Also updated Hyy variable names to match 2011 survey.
            31) 02/24/2011 By Mike Rudacille, Updated %LET DSN HCS112_2 and Current January,
2011.
```

32) 03/31/2011 By Mike Rudacille, Updated for 2010 benchmarks and to include new

```
definition of smoker, HP_SMKH3. Also utilizes HP_CESH3 rather than
*
                            re-creating work already done in convarq.
             33) 12/10/2011 By Mike Rudacille, Updated %LET DSN HCS121_2 and CURRENT October,
2011.
                            Also updated Hyy variable names to match 2012 survey.
             34) 12/21/2011 By Mike Rudacille Updated norm data from 2005 to 2011.
             35) 03/05/2012 By Amanda Kudis, Updated %LET DSN HCS122_2 and CURRENT January, 2012.
             36) 06/20/2012 By Amanda Kudis, Updated for Q3FY2012.
             37) 08/23/2012 By Christine Cheu, Updated for Q4FY2012.
             38) 11/03/2012 By Mike Rudacille Updated for handling of Joint Service facilities
             39) 12/28/2012 By Aimee Valenzuela Updated for Q1FY2013
             40) 03/23/2013 By Mike Rudacille, Updated %LET DSN HCS132_2 and CURRENT January,
2013.
            1) HCS11A_2.sas7bdat - Annual 2011 Survey data
             2) HCS132_2.sas7bdat - Q2 fy 2013 Survey data
3) AC2011DB.sas7bdat - 2011 CAHPS Benchmark Data
   Output: 1) SMOKE.sas7bdat
*********************
OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMTERR;
                                                                         ***/
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = PurchasedReportCards;
LIBNAME BENCH
                    "..\..\..\2011AdultNCBD";
                   "..\..\Data\afinal";
LIBNAME INDAT
LIBNAME INNORM
                   "..\..\..\2011\Data";
LIBNAME OUT
%LET DSN=HCS133_2;
                                       /*JSO 08/24/2006, Changed Regions, 16 to 15*/ /* MER
%LET DSN_NORM=HCS11A_2;
11/03/12 15 to 18 */
%LET REGNUM = 18;
                                        /*RSG 01/2005 Number of Regions (with serv affiliation)*/
%LET CONNUM = 4;
                                        /*RSG 01/2005 Number of Conus level (with serv
affiliation)*/
%LET SRVNUM = 5;
                                        /*MER 11/03/2012 Number of service affiliations,
including Joint Service */
%LET CURRENT = April, 2013;
%LET WGT = FWRWT;
%LET NORMWGT = CFWT;
%LET CATCHNUM=9999;
                                       /*RSG 02/2005 number of catchment areas **/
DATA BENCHA01;
  SET BENCH.AC2011DB (RENAME=(BIRTHYY=YOB));
   if product in (7,9) then model=4;
  if product=3 then model=2;
                                               /*coded according to AC FORMATS.SAS*/
  if product=1 then model=1;
   if product=4 then model=6;
  if product=8 then model=5;
  if product=2 then model=3;
  product=planid;
/*if ^(model in (2,4)); */ **AMK 5/02/12 removed;
if disp in ('M10','I10') ;
if ac45\_11 in (1,2) & ac46\_11>=1 & ac46\_11<=4; /*02/2006 RSG - REMOVED REQUIREMENT FOR
ADDITIONAL VISIT (ACC22 FIELD)*/
cessbnch=0;
if ac46_11>1 then cessbnch=1;
proc summary nway; class product;
var cessbnch;
output out=tbench mean=;
proc print;
proc summary;
var cessbnch;
output out=tbench mean=;
proc print;
data _null_;
set tbench;
```

```
call symput('CNSLGOAL',cessbnch);
run;
%LET NSMKGOAL = 0.88;
%LET BMIGOAL = 0.69;
%INCLUDE "..\..\PURCHASEDLOADWEB\LOADCAHQ.INC";
PROC FORMAT;
VALUE AGEF
LOW - 34 = 1
35 - 49 = 2
50 - 64 = 3
65 - HIGH = 4;
^{\prime \star} 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats ^{\star \prime}
LIBNAME LIBRARY '..\..\..\2011\Data\fmtlib';
DATA NORMDATA (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF
                    SM_RATE SM_CESS SM_RTDN SM_CSDN BMI_DN BMI
                    TOTCON GROUP XSEXA &WGT. age_n MPCSMPL NXNS_COV);
                    /\! 05/10/2007 JSO Added NXNS_COV in the keep statement \!\!^*/\!\!
SET INNORM.&DSN_NORM.(DROP=&WGT.); /* 4/4/2006, KRR added drop so CFWT can renamed/used */
LENGTH AGE_N AGE_GRP TMP_CELL 8.;
       XREGION=13 THEN XOCONUS=1; /* 08/24/2006, JSO Create XOCONUS for 2005 data */
IF
ELSE IF XREGION=14 THEN XOCONUS=2;
ELSE IF XREGION=15 THEN XOCONUS=3;
TMP_CELL=STRATUM;
AGE_N = FIELDAGE;
AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;
IF SERVAFF = 'A' THEN XSERVAFF = 1;
ELSE IF SERVAFF = 'F' THEN XSERVAFF = 2;
                                            *Air Force;
ELSE IF SERVAFF = 'N' THEN XSERVAFF = 3;
                                           *Navy;
ELSE XSERVAFF = 4;
                                            *Other/unknown;
IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
  ELSE XSERVREG = 5;
END;
IF XTNEXREG = 2 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 6;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
  ELSE XSERVREG = 10;
END;
IF XTNEXREG = 3 THEN DO;
   IF XSERVAFF = 1 THEN XSERVREG = 11;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
  ELSE XSERVREG = 15;
END;
IF XTNEXREG = 4 THEN DO; /*JSO 08/22/2006, Changed Overseas Regions*/
          XOCONUS = 1 THEN XSERVREG = 16;
  ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
```

```
IF HP_SMKH3 IN (1,2) THEN DO;
   SM_RATE = 0;
   IF HP_SMKH3 = 2 THEN SM_RATE=1;
   SM_RTDN=1;
/* MER 3/31/11 Start using HP_CESH3 instead of re-creating work already done in convarg */
IF HP_CESH3 IN (1,2) THEN DO;
   SM\_CESS = 0;
   IF HP_CESH3 = 1 THEN SM_CESS=1;
   SM_CSDN=1;
END;
IF xbmicat > 0 THEN DO;
   BMI = 0;
    BMI_DN=1;
   IF xbmicat <=3 THEN BMI=1;</pre>
END;
IF XTNEXREG IN (1,2,3) THEN TOTCON=1;
ELSE IF XTNEXREG = 4 THEN TOTCON=2;
IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */
RENAME &NORMWGT = &WGT;
IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
IF XTNEXREG = .
                  THEN DELETE;
IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11
Added 10,11*/
NXNS_COV = XINS_COV;
                                  /*JSO 04/26/2007 added for reservists logic*/
                                  /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H11003 = 3 THEN DO;
  NXNS\_COV = 3;
   XENR\_PCM = .;
END;
* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H11004>=2 THEN DO;
  GROUP=1;
   OUTPUT;
END;
* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM IN (1,2,6) AND H11004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  XENR_PCM IN (1,2) AND H11004>=2 THEN DO;
   GROUP=2;
   OUTPUT;
END;
* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
   XENR_PCM = 3 AND H11004>=2 THEN DO;
   GROUP=3;
   OUTPUT;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
   ((XENR_PCM = 3 AND H11004>=2) OR NXNS_COV IN (3,9,10)) THEN DO; /*JSO 07/30/2007, Added 9*/
   GROUP=3;
                                                                    /*MER 07/12/11, Added 10*/
  OUTPUT;
END;
```

```
* nonenrollees;
IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
  GROUP=4;
                                 /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11, Added 10*/
  OUTPUT;
END;
* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
                 /*JSO 07/30/2007, added DBENCAT conditions*/
  GROUP=5;
  OUTPUT;
END;
* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR')THEN DO;
  GROUP=6; /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;
* retirees;
IF XBNFGRP IN (3,4) THEN DO;
  GROUP=7;
  OUTPUT;
END;
* all beneficiaries;
GROUP=8;
OUTPUT;
RUN;
^{\prime \star} 08/22/2006 JSO Moved from the top of program for using Quarter vs. Annual Formats ^{\star \prime}
LIBNAME LIBRARY '..\..\Data\afinal\fmtlib';
DATA SMOKE (KEEP=TMP_CELL AGE_GRP XTNEXREG XSERVREG XSERVAFF TOTCON GROUP
                 SM_RATE SM_CESS SM_RTDN SM_CSDN XSEXA &WGT BMI_DN BMI
                 MPCSMPL NXNS_COV);/* 05/10/2007 JSO Added NXNS_COV in the keep statement */
SET INDAT.&DSN.;
LENGTH AGE_N AGE_GRP TMP_CELL 8.;
/* MER 4/20/09 - Restrict dataset to just non-zero V4 weights */
IF &WGT <= 0 THEN DELETE;
TMP_CELL=STRATUM;
AGE_N = FIELDAGE;
AGE_GRP = PUT(AGE_N, AGEF.);
IF AGE_GRP < 4;
IF SERVAFF='A' THEN XSERVAFF=1;
                                             *Armv;
  ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                             *Air Force;
   ELSE IF SERVAFF='N' THEN XSERVAFF=3;
                                              *Navy;
   ELSE XSERVAFF=4;
IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
IF XTNEXREG = 1 THEN DO;
  IF XSERVAFF = 1 THEN XSERVREG = 1;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
  ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
   ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
  ELSE XSERVREG = 5;
END;
IF XTNEXREG = 2 THEN DO;
   IF XSERVAFF = 1 THEN XSERVREG = 6;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
   ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
   ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
  ELSE XSERVREG = 10;
END;
IF XTNEXREG = 3 THEN DO;
```

```
IF XSERVAFF = 1 THEN XSERVREG = 11;
   ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
   ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
  ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
  ELSE XSERVREG = 15;
IF XTNEXREG = 4 THEN DO; /*JSO 08/24/2006, Changed Overseas Regions*/
        XOCONUS = 1 THEN XSERVREG = 16;
   ELSE IF XOCONUS = 2 THEN XSERVREG = 17;
  ELSE IF XOCONUS = 3 THEN XSERVREG = 18;
END;
IF XTNEXREG IN (1,2,3) THEN TOTCON=1;
ELSE IF XTNEXREG=4 THEN TOTCON=2;
IF MPCSMPL = 3 THEN MPCSMPL = 2; /* RSG 02/2006 GROUP WARRANT OFFICER WITH OFFICER */
IF FIELDAGE >= '065' THEN DELETE; /*JSO added 11/10/2006*/
IF XTNEXREG = . THEN DELETE;
IF XINS_COV NOT IN(1,2,3,6,9,10,11) THEN DELETE; /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11,
Added 10*/
NXNS COV = XINS COV;
                                  /*JSO 04/26/2007 added for reservists logic*/
                                  /*JSO 07/30/2007, added DBENCAT, NXNS_COV conditions*/
IF DBENCAT NOT IN('IGR','GRD','IDG','DGR') AND NXNS_COV = 9 THEN DELETE;
IF DBENCAT IN('GRD','IGR') AND H13003 = 3 THEN DO;
  NXNS_COV = 3;
  XENR\_PCM = .;
END;
IF HP_SMKH3 IN (1,2) THEN DO;
  SM_RATE = 0;
   IF HP_SMKH3 = 2 THEN SM_RATE=1;
  SM_RTDN=1;
END;
/* MER 3/31/11 Start using HP_CESH3 instead of re-creating work already done in convarq */
IF HP_CESH3 IN (1,2) THEN DO;
  SM\_CESS = 0;
  IF HP_CESH3 = 1 THEN SM_CESS=1;
  SM_CSDN=1;
END;
IF xbmicat > 0 THEN DO;
   BMI = 0;
   BMI DN=1;
  IF xbmicat <=3 THEN BMI=1;</pre>
* prime enrollees;
IF NXNS_COV IN (1,2,6) AND H13004>=2 THEN DO;
   GROUP=1;
  OUTPUT;
END;
* enrollees with military pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
  XENR_PCM IN (1,2,6) AND H13004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
  XENR\_PCM IN (1,2) AND H13004>=2 THEN DO;
  GROUP=2;
  OUTPUT;
END;
* enrollees with civilian pcms; /*JSO 04/05/2007, added conditions for RC type*/
IF "&RCTYPE" = 'ReportCards' AND
```

```
XENR\_PCM = 3 AND H13004>=2 THEN DO;
  GROUP=3;
  OUTPUT;
END;
ELSE IF "&RCTYPE" = 'PurchasedReportCards' AND
   ((XENR_PCM = 3 AND H13004>=2) OR NXNS_COV IN (3,9,10)) THEN DO; /*JSO 07/30/2007, Added 9*/
                                                                    /*MER 07/12/11, Added 10*/
  GROTIP=3:
  OUTPUT;
END;
* nonenrollees;
IF NXNS_COV IN (3,9,10) THEN DO; /*JSO 08/24/2006, Deleted 4,5*/
                                 /*JSO 07/30/2007, Added 9*/ /*MER 07/12/11, Added 10*/
  OUTPUT:
END;
* active duty;
IF XBNFGRP = 1 OR DBENCAT IN('IGR','GRD') THEN DO;
  GROUP=5;
                /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END:
* active duty dependents;
IF XBNFGRP = 2 OR DBENCAT IN('IDG','DGR') THEN DO;
  GROUP=6;
                 /*JSO 07/30/2007, added DBENCAT conditions*/
  OUTPUT;
END;
* retirees;
IF XBNFGRP IN (3,4) THEN DO;
  GROUP=7;
  OUTPUT;
END;
* all beneficiaries;
GROUP=8;
OUTPUT;
RUN;
PROC SORT DATA=SMOKE;
BY TMP_CELL;
PROC SORT DATA=NORMDATA;
BY TMP_CELL;
RUN;
%MACRO A_SUDAAN(TABLEVAR,SMOKE,SMOKEVAR,DEN);
%IF %UPCASE(&TABLEVAR)=XSERVREG %THEN %DO;
   %LET ENDNUM=&REGNUM;
       %LET PREF=R;
%ELSE %IF %UPCASE(&TABLEVAR)=XSERVAFF %THEN %DO;
   %LET ENDNUM=&SRVNUM;
       %LET PREF=M;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=XTNEXREG %THEN %DO;
   %LET ENDNUM=&CONNUM;
       %LET PREF=S;
%END;
%ELSE %IF %UPCASE(&TABLEVAR)=TOTCON %THEN %LET PREF=C;
%DO I = 1 %TO 8;
   DATA INDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA MPCSMPL
                          &SMOKEVAR. &DEN. TMP_CELL XTNEXREG);
       SET SMOKE;
   WHERE XSERVREG > 0 AND GROUP=&I. AND &DEN. >= 0;
       %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
          IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /* MER 11/3/12 - Changed 4 to 5 */
       %END;
          %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
```

```
IF TOTCON NE 1 THEN DELETE;
          %END;
          %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
              IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
          %END;
   RUN;
           DATA NORMDAT&I.(KEEP=&WGT XSERVAFF XSERVREG AGE_GRP XSEXA &SMOKEVAR. &DEN.
                                 TMP_CELL XTNEXREG MPCSMPL);
               SET NORMDATA;
                WHERE XSERVREG > 0 AND GROUP=&I.;
                %IF %UPCASE(&TABLEVAR) = XSERVAFF %THEN %DO;
                    IF XSERVAFF > 5 OR XSERVAFF = . THEN DELETE; /* MER 11/3/12 - Changed 4 to 5
* /
                %END;
               %IF %UPCASE(&TABLEVAR) = XTNEXREG %THEN %DO;
                   IF XTNEXREG NOTIN (1,2,3,4) THEN DELETE;
            RUN;
               %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
                    PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
                    WEIGHT &WGT;
                    SETENV DECWIDTH=4;
                    NEST TMP_CELL / missunit;
                    VAR &SMOKEVAR;
                    TABLES AGE_GRP*XSEXA*MPCSMPL*&TABLEVAR.;
                    SUBGROUP AGE_GRP XSEXA MPCSMPL &TABLEVAR.;
                    LEVELS 8 2 2 & ENDNUM.;
                    OUTPUT SEMEAN MEAN wsum nsum
                            / TABLECELL=DEFAULT REPLACE
                              FILENAME=&PREF.GRP&I.&SMOKE.;
               %END;
               %ELSE %IF %UPCASE(&SMOKE) NE CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
                    PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
                    WEIGHT &WGT;
                    SETENV DECWIDTH=4;
                    NEST TMP_CELL / missunit;
                    VAR &SMOKEVAR;
                    TABLES AGE_GRP*XSEXA*MPCSMPL;
                    SUBGROUP AGE_GRP XSEXA MPCSMPL;
                    LEVELS 3 2 2;
                    OUTPUT SEMEAN MEAN wsum nsum
                            / TABLECELL=DEFAULT REPLACE
                              FILENAME=&PREF.GRP&I.&SMOKE.;
                    RUN;
               %END;
       %IF %UPCASE(&SMOKE) NE CS %THEN %DO;
                  DATA &PREF.SER &I.&SMOKE.;
                  SET &PREF.GRP&I.&SMOKE.;
                  GROUP=&I.;
                  IF SEMEAN NE .;
                  %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
                     KEEP &TABLEVAR. GROUP AGE_GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
                  %END;
                  %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
                      TOTCON=1;
                      KEEP TOTCON GROUP AGE GRP XSEXA MPCSMPL SEMEAN MEAN wsum nsum;
                  %END;
               RUN;
               /* CREATE WEIGHTS FROM 2005 DATA*/
               proc summary data=normdat&i. nway;
                var &WGT;
                where &den>0;
                class age_grp xsexa MPCSMPL;
                output out=norm_&i. sum=normwt;
```

```
by age_grp xsexa mpcsmpl;
       data &pref.ser_&i.&smoke.;
       merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
       by age_grp xsexa mpcsmpl;
       if gin;
       wsum=wsum/normwt;
       nsum=nsum/normwt;
       sesq=normwt*semean**2;
       run;
       proc summary data=&pref.ser_&i.&smoke. nway;
       var mean semean sesq wsum nsum;
       class &tablevar.;
       weight normwt;
       output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)= sumwgt(semean)=;
      data &pref.sert&i.&smoke;
         set &pref.sert&i.&smoke;
         group=&i.;
          semean=sqrt(sesq/semean);
         drop _type_ _freq_;
      run;
      %IF &I. = 1 %THEN %DO;
          DATA &PREF._&SMOKE.;
          SET &PREF.SERT&I.&SMOKE.;
          RUN;
      %END;
      %ELSE %DO;
          DATA &PREF._&SMOKE.;
           SET &PREF._&SMOKE. &PREF.SERT&I.&SMOKE.;
          RUN;
          PROC SORT DATA=&PREF._&SMOKE.;
          BY GROUP;
          RUN;
      %END;
%END;
      %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
           PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
           WEIGHT &WGT;
           SETENV DECWIDTH=4;
           NEST TMP_CELL / missunit;
           VAR &SMOKEVAR;
           TABLES AGE_GRP*XSEXA*&TABLEVAR.;
           SUBGROUP AGE_GRP XSEXA &TABLEVAR.;
           LEVELS 3 2 & ENDNUM.;
           OUTPUT SEMEAN MEAN wsum nsum
                   / TABLECELL=DEFAULT REPLACE
                     FILENAME=&PREF.GRP&I.&SMOKE.;
           RUN;
      %END;
      %ELSE %IF %UPCASE(&SMOKE) = CS AND %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
           PROC DESCRIPT DATA=INDAT&I. DESIGN=STRWR NOPRINT;
           WEIGHT &WGT;
           SETENV DECWIDTH=4;
           NEST TMP_CELL / missunit;
           VAR &SMOKEVAR;
           TABLES AGE GRP*XSEXA;
           SUBGROUP AGE_GRP XSEXA;
           LEVELS 3 2 ;
           OUTPUT SEMEAN MEAN wsum nsum
                   / TABLECELL=DEFAULT REPLACE
                     FILENAME=&PREF.GRP&I.&SMOKE.;
           RUN;
```

proc sort data=&pref.ser_&i.&smoke.;

```
%END;
%IF %UPCASE(&SMOKE) = CS %THEN %DO;
          DATA &PREF.SER_&I.&SMOKE.;
          SET &PREF.GRP&I.&SMOKE.;
          GROUP=&I.;
          IF SEMEAN NE .;
          %IF %UPCASE(&TABLEVAR) NE TOTCON %THEN %DO;
              KEEP &TABLEVAR. GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
          %IF %UPCASE(&TABLEVAR) = TOTCON %THEN %DO;
              TOTCON=1;
              KEEP TOTCON GROUP AGE_GRP XSEXA SEMEAN MEAN wsum nsum;
          %END;
       RUN;
       /* CREATE WEIGHTS FROM 2005 DATA*/
       proc summary data=normdat&i. nway;
        var &WGT;
        where &den>0;
        class age_grp xsexa;
        output out=norm_&i. sum=normwt;
        proc sort data=&pref.ser_&i.&smoke.;
        by age_grp xsexa;
        data &pref.ser_&i.&smoke.;
        merge &pref.ser_&i.&smoke.(in=gin) norm_&i.;
        by age_grp xsexa;
        if gin;
        wsum=wsum/normwt;
        nsum=nsum/normwt;
        sesq=normwt*semean**2;
        run;
        proc summary data=&pref.ser_&i.&smoke. nway;
        var mean semean sesq wsum nsum;
        class &tablevar.;
        weight normwt;
        output out=&pref.sert&i.&smoke. mean(mean sesq)= sum(wsum nsum)= sumwgt(semean)=;
        run;
       data &pref.sert&i.&smoke;
          set &pref.sert&i.&smoke;
          group=&i.;
           semean=sqrt(sesq/semean);
          drop _type_ _freq_;
       run;
    %IF &I. = 1 %THEN %DO;
    DATA &PREF._CESS;
    SET &PREF.SERT&I.&SMOKE.;
    RUN;
    %END;
    %ELSE %DO;
    DATA &PREF._CESS;
      SET &PREF._CESS &PREF.SERT&I.&SMOKE.;
    PROC SORT DATA=&PREF._CESS;
    BY GROUP;
    RUN;
```

%END;

```
%END;
%END;
%MEND;
%A_SUDAAN(XSERVAFF,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVAFF,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVAFF,BM,BMI,BMI_DN);
%A_SUDAAN(XSERVREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XSERVREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XSERVREG,BM,BMI,BMI_DN);
%A_SUDAAN(XTNEXREG,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(XTNEXREG,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(XTNEXREG,BM,BMI,BMI_DN);
%A_SUDAAN(TOTCON,RT,SM_RATE,SM_RTDN);
%A_SUDAAN(TOTCON,CS,SM_CESS,SM_CSDN);
%A_SUDAAN(TOTCON,BM,BMI,BMI_DN);
%MACRO ADDIT(PREF, TYPE);
DATA &PREF._&TYPE;
SET &PREF._&TYPE;
LENGTH BENEFIT $34. BENTYPE $50.;
BENEFIT="Healthy Behaviors";
   %IF &TYPE=RT %THEN %DO;
       BENTYPE="Non-Smoking Rate";
    %IF &TYPE=CESS %THEN %DO;
       BENTYPE="Counselled To Quit";
    %END;
    %IF &TYPE = BM %THEN %DO;
       BENTYPE = "Percent Not Obese";
    %END;
RUN;
%MEND;
%ADDIT(C,RT);
%ADDIT(C,CESS);
%ADDIT(C,BM);
%ADDIT(M,RT);
%ADDIT(M,CESS);
%ADDIT(M,BM);
%ADDIT(R,RT);
%ADDIT(R,CESS);
%ADDIT(R,BM);
%ADDIT(S,RT);
%ADDIT(S,CESS);
%ADDIT(S,BM);
%MACRO MAKEDATA(PREF, TABLEVAR);
 DATA &PREF._SMOKE;
   SET &PREF._RT
      &PREF._CESS
      &PREF._BM
   LENGTH MAJGRP $30. REGION REGCAT $30.; /* MER 11/11/12 - Updated REGION/REGCAT for Joint
Service facilities */
            GROUP=1 THEN MAJGRP="Prime Enrollees
   ELSE IF GROUP=2 THEN MAJGRP="Enrollees with Military PCM";
    ELSE IF GROUP=3 THEN MAJGRP="Enrollees with Civilian PCM";
   ELSE IF GROUP=4 THEN MAJGRP="Non-enrolled Beneficiaries ";
   ELSE IF GROUP=5 THEN MAJGRP="Active Duty
   ELSE IF GROUP=6 THEN MAJGRP="Active Duty Dependents
                                                            ";
   ELSE IF GROUP=7 THEN MAJGRP="Retirees and Dependents
                                                             ";
   ELSE IF GROUP=8 THEN MAJGRP="All Beneficiaries
       %IF &TABLEVAR = XSERVAFF %THEN %DO;
```

```
IF XSERVAFF = 1 THEN REGION = 'ARMY';
           IF XSERVAFF = 2 THEN REGION = 'AIR FORCE';
           IF XSERVAFF = 3 THEN REGION = 'NAVY';
           IF XSERVAFF = 4 THEN REGION = 'OTHER';
            IF XSERVAFF = 5 THEN REGION = 'JOINT SERVICE'; /* MER 11/3/12 - Added for Joint
Service facilities */
        %END:
       %IF &TABLEVAR = XSERVREG %THEN %DO;
               REGION = PUT(XSERVREG,SERVREGO.); /*JSO 08/24/2006, Create new format for
Overseas*/
       %END;
       %IF &TABLEVAR = XTNEXREG %THEN %DO;
        IF XTNEXREG=1 THEN REGION="NORTH";
           ELSE IF XTNEXREG=2 THEN REGION="SOUTH";
           ELSE IF XTNEXREG=3 THEN REGION="WEST";
           ELSE IF XTNEXREG=4 THEN REGION="OVERSEAS";
        %END;
       %IF &TABLEVAR = TOTCON %THEN %DO;
        REGION = "USA MHS";
        %END;
        REGCAT=REGION;
        DROP GROUP &TABLEVAR;
       IF &TABLEVAR NE 0;
   RUN;
%MEND MAKEDATA;
%MAKEDATA(M,XSERVAFF);
%MAKEDATA(C,TOTCON);
%MAKEDATA(R,XSERVREG);
%MAKEDATA(S,XTNEXREG);
DATA SMOKE;
SET M_SMOKE R_SMOKE S_SMOKE C_SMOKE;
SESQ = SEMEAN**2;
RENAME MEAN=SCORE wsum=n_wgt nsum=n_obs;
RIIN;
/* CALCULATE COMPOSITE SCORE - AVERAGE RATE AND CESSATION*/
PROC SORT DATA=SMOKE;
BY MAJGRP REGION REGCAT;
PROC SUMMARY DATA=SMOKE SUM;
BY MAJGRP REGION REGCAT;
VAR SCORE SESQ N_WGT N_OBS;
OUTPUT SUM= OUT=PRECOMP;
RUN;
DATA COMP(RENAME=(S_MEAN=SCORE S_SE=SEMEAN));
SET PRECOMP;
IF _FREQ_ = 3 THEN DO;
   S_MEAN=SCORE/3;
   S SE=SORT(SESO)/3;
  N_OBS=round(N_OBS/3);
END;
ELSE DO;
   S_MEAN=.;
   S_SE=.;
END;
BENTYPE="Composite";
BENEFIT="Healthy Behaviors";
DROP _TYPE_ _FREQ_ SCORE SESQ;
```

```
RUN;
PROC SORT DATA=SMOKE;
BY MAJGRP BENTYPE;
RUN;
DATA BENCH;
SET SMOKE;
BY MAJGRP BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Quit" THEN DO;
  SCORE=&CNSLGOAL;
   SEMEAN=.;
   REGION="Benchmark";
  REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
   SCORE=&NSMKGOAL;
   SEMEAN=.;
  REGION="Benchmark";
  REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
ELSE IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
   SCORE=&BMIGOAL;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
   SCORE=(SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3;
   SEMEAN=.;
   REGION="Benchmark";
   REGCAT="Benchmark";
   BENTYPE="Composite";
   DROP N_WGT;
   OUTPUT;
END;
RUN;
PROC SORT DATA=SMOKE;
BY REGION BENTYPE;
RUN;
DATA BENCH2;
SET SMOKE;
BY REGION BENTYPE;
IF LAST.BENTYPE AND BENTYPE="Counselled To Ouit" THEN DO;
   SCORE=&CNSLGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT N_OBS;
   OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Non-Smoking Rate" THEN DO;
   SCORE=&NSMKGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT;
   OUTPUT;
END;
IF LAST.BENTYPE AND BENTYPE="Percent Not Obese" THEN DO;
   SCORE=&BMIGOAL;
   SEMEAN=.;
   MAJGRP="Benchmark";
   DROP N_WGT;
   OUTPUT;
   SCORE=(SUM(&CNSLGOAL, &NSMKGOAL, &BMIGOAL))/3;
   SEMEAN=.;
   MAJGRP="Benchmark";
   BENTYPE="Composite";
```

```
DROP N_WGT N_OBS;
  OUTPUT;
END;
RUN;
DATA SIG1;
SET SMOKE COMP;
IF BENTYPE='Non-Smoking Rate' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&NSMKGOAL)/SEMEAN;
   ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
  IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
     IF SCORE > &NSMKGOAL THEN SIG = 1;
         ELSE IF SCORE < &NSMKGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Counselled To Quit' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-&CNSLGOAL)/SEMEAN;
  ELSE TSTAT=.;
  IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
   ELSE PVAL=.;
  IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
     IF SCORE > &CNSLGOAL THEN SIG = 1;
         ELSE IF SCORE < &CNSLGOAL THEN SIG = -1;
  END;
END:
IF BENTYPE='Percent Not Obese' THEN DO;
  IF SEMEAN > 0 THEN TSTAT=(SCORE-&BMIGOAL)/SEMEAN;
   ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
     IF SCORE > &BMIGOAL THEN SIG = 1;
         ELSE IF SCORE < &BMIGOAL THEN SIG = -1;
  END;
END;
IF BENTYPE='Composite' THEN DO;
   IF SEMEAN > 0 THEN TSTAT=(SCORE-((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3))/SEMEAN;
  ELSE TSTAT=.;
   IF N_OBS > 1 THEN PVAL=(1-PROBT(ABS(TSTAT),(N_OBS-1)))*2;
  ELSE PVAL=.;
   IF PVAL GE 0.05 THEN SIG=0;
   ELSE IF PVAL < 0.05 THEN DO;
      IF SCORE > ((SUM(&NSMKGOAL, &CNSLGOAL, &BMIGOAL))/3) THEN SIG = 1;
         ELSE IF SCORE <((SUM(\&NSMKGOAL, \&CNSLGOAL, \&BMIGOAL))/3) THEN SIG = -1;
  END;
END;
DROP TSTAT PVAL;
RUN;
DATA SMOKE_ALL;
SET SIG1 BENCH BENCH2;
TIMEPD="&CURRENT.";
RIIN;
PROC SORT DATA=SMOKE_ALL OUT=OUT.SMOKE;
BY MAJGRP REGION REGCAT BENTYPE;
RUN;
```

I.4.C Q3FY2013\PROGRAMS\PurchasedReportCards\MPR_AdultQ3FY2013\Loadmprq.sas - Convert the MPR Scores Database into the WEB layout - Run Quarterly.

```
Project:
           DoD Reporting and Analysis 6077-410
Program:
           LOADMPRQ.SAS
Purpose:
           Calculate MPR Preventive Care Composites
Date:
           4/07/2000
Author:
           Chris Rankin
Modified: 1) 05-08-2001 By Keith Rathbun, Added SEMEAN to LOADMPRQ.SD2
              to accommodate the Short Reports. Condensed some code.
           2) 07-15-2002 By Mike Scott, Changed PERIOD to = "April, 2001
              to March, 2002".
           3) 03-21-2003 By Mike Scott, Changed PERIOD to = "January, 2001
              to December, 2002".
           4) 04-30-2003 By Mike Scott, Changed CMPNUM1 from 4 to 5, and
              changed the upper limits of both DO loops from 5 to 6 because
              of the addition of Cholesterol Testing.
           5) 06-23-2003 By Mike Scott, Changed setting BENTYPE from &PERIOD
              to Composite. Added TIMEPD variable.
           6) 06-26-2003 By Mike Scott, Updated for Q2 2003.
           7) 10-21-2003 By Mike Scott, Updated for Q3 2003.
           8) 01-07-2004 By Mike Scott, Updated for Q4 2003.
           9) 03-24-2004 By Mike Scott, Updated for Q1 2004.
          10) 06-22-2004 By Regina Gramss, Updated for Q2 2004.
          11) 09/2004
                        By Regina Gramss, Updated for Q3 2004.
          12) 01/2005
                         By Regina Gramss, Replaced XTNEXREG with XSERVREG
              to produce "last conus_q" for Q4 2005
          13) 12/2005
                       By Regina Gramss, Updated for Q4 2005.
          14) 03/24/2006 By Keith Rathbun, Updated for Q2 FY 2006.
              %LET PERIOD = January, 2006 was the only change.
          15) 07/12/2006 By Justin Oh, Updated for Q3 FY 2006.
          16) 08/24/2006 By Justin Oh, change DO REG = 1 TO 15 from 1 TO 16.
          17) 10/04/2006 By Justin Oh, Updated %LET PERIOD.
          18) 12/20/2006 By Justin Oh, Updated %LET PERIOD October, 2006.
          19) 04/05/2007 By Justin Oh, Updated %LET PERIOD January, 2007.
          20) 06/22/2007 By Keith Rathbun, Updated %LET PERIOD April, 2007.
          21) 09/04/2007 By Justin Oh, Updated %LET PERIOD July, 2007.
          22) 01/10/2008 By Keith Rathbun, Updated %LET PERIOD October, 2007.
          23) 04/11/2008 By Justin Oh, Updated %LET PERIOD January, 2008.
          24) 06/13/2008 By Keith Rathbun, Updated %LET PERIOD April, 2008.
          25) 01/06/2009 By Mike Rudacille, Updated %LET PERIOD October, 2008.
          26) 01/16/2009 By Mike Rudacille, Changed CONUS variable to USA.
          27) 03/11/2009 By Keith Rathbun, Updated %LET PERIOD January, 2009.
          28) 06/22/2009 By Keith Rathbun, Updated %LET PERIOD April, 2009.
          29) 09/30/2009 By Mike Rudacille, Updated %LET PERIOD July, 2009.
          30) 12/17/2009 By Emma Ernst, Updated %LET Period October, 2009.
          31) 03/02/2010 By Mike Rudacille, Updated %LET PERIOD January, 2010.
          32) 06/19/2010 By Mike Rudacille, Updated %LET PERIOD April, 2010.
          33) 08/28/2010 By Mike Rudacille, Updated %LET PERIOD July, 2010.
          34) 12/02/2010 By Mike Rudacille, Updated %LET PERIOD October, 2010.
          35) 02/24/2011 By Mike Rudacille, Updated %LET PERIOD January, 2011. 36) 12/10/2011 By Mike Rudacille, Updated %LET PERIOD October, 2011.
          37) 03/05/2012 By Amanda Kudis, Updated %LET PERIOD January, 2012.
          38) 06/20/2012 By Amanda Kudis, Updated for Q3FY2012.
          39) 08/23/2012 By Christine Cheu, Updated for Q4FY2012.
          40) 11/03/2012 By Mike Rudacille, Updated for handling of
              Joint Service facilities
          41) 12/28/2012 By Aimee Valenzuea, Updated for Q1FY2013
          42) 03/23/2013 By Mike Rudacille, Updated %LET PERIOD January, 2013.
           1) RFINAL.sas7bdat
 Input:
           2) CFINAL.sas7bdat
           3) MFINAL.sas7bdat
           4) SFINAL.sas7bdat
           5) SMOKE.sas7bdat
 Output:
           loadmprg.sas7bdat
 Note:
           ***CHECK COMPNUM AND CMPNUM1 ASSIGNMENTS AND UPPER LIMIT OF DO LOOPS***
```

```
*******************************
OPTIONS COMPRESS=YES NOCENTER LS=124 PS=74 SOURCE SOURCE2;
              ".";
LIBNAME INLIB
              ".";
LIBNAME OUT
LIBNAME LIBRARY "..\..\Data\Afinal\fmtlib";
%LET CMPNUM1=4; /*** number of questions in first composite ***/ /*RSG 04/2005 Changed 5 to 4*/
%LET PERIOD = April, 2013;
%INCLUDE "..\..\PURCHASEDLOADWEB\LOADCAHQ.INC";
******************
*** Note -- take out access to care questions and composite ***;
*************************
data mfinal(keep=cpbmk1 compress=no);
 set inlib.mfinal(keep=majgrp cpbmk1) INLIB.CFINAL (KEEP=MAJGRP CPBMK1);
 where majgrp="All Beneficiaries"; /*RSG 02/2005 Include CONUS MHS data*/
data mfinal;
 if n =1 then set mfinal;
 set inlib.mfinal(drop=cpbmk1) INLIB.CFINAL(DROP=CPBMK1) ;
proc sort data=mfinal;
                           /*RSG 01/2005 - Added code to select only 1 record per majgrp */
by majgrp;
                           /*using xservreg, there are now 4 conus areas which caused
duplicate benchmark calcs */
data mfinal;
set mfinal;
by majgrp;
if first.majgrp;
****************
***** Benchmarks
******************
DATA BENCHMKS(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SIG);
  FORMAT MAJGRP $30. REGION $30. REGCAT $30. /** RSG 01/2005 Increase region format to
accommodate service affiliation **/
            BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD; /* MER
11/08/12 Increase region/regcat formats */
 SET MFINAL;
 ARRAY BENCHMK{*} GOALVAR1-GOALVAR&CMPNUM1 CPBMK1;
 DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
    SCORE = BENCHMK{I}*100;
    SIG
           = .;
    REGION = "Benchmark";
    REGCAT = "Benchmark";
    BENEFIT = "Preventive Care";
    IF
           I = 1 THEN BENTYPE = "Prenatal Care";
    ELSE IF I = 2 THEN BENTYPE = "Mammography";
    ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
    ELSE IF I = 4 THEN BENTYPE = "Hypertension";
    /*RSG 04/2005 DELETED CHOLESTEROL*/
    ELSE IF I = 5 THEN BENTYPE = "Composite";
                                            ***MJS 06/23/03 Changed &PERIOD to Composite;
    TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
    OUTPUT;
 END;
 DROP I;
RUN;
DATA BENCHMKS;
 SET BENCHMKS;
 OUTPUT;
 IF MAJGRP = "All Beneficiaries" THEN DO;
    DO REG = 1 TO 18; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 15*/ /* MER 11/3/12 15
to 18 */
```

```
MAJGRP = "Benchmark";
          REGION = PUT(REG.SERVREGO.);
           REGCAT = PUT(REG, SERVREGO.);
           OUTPUT;
    END;
    DO SERV = 1 TO 5; DROP SERV; /* MER 11/03/2012 Changed 4 to 5 for Joint Service facilities
* /
        MAJGRP = "Benchmark";
        REGION = PUT(SERV, XSERVAFF.);
        REGCAT = PUT(SERV, XSERVAFF.);
        OUTPUT;
     END;
        MAJGRP = "Benchmark";
        REGION = 'USA MHS';
        REGCAT = 'USA MHS';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'NORTH';
        REGCAT = 'NORTH';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'SOUTH';
        REGCAT = 'SOUTH';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'WEST';
        REGCAT = 'WEST';
        OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'OVERSEAS';
        REGCAT = 'OVERSEAS';
        OUTPUT;
  END;
RUN;
PROC FREO DATA=BENCHMKS;
  TABLES MAJGRP/MISSING LIST;
*****************
***** Scores **;
*****************
DATA SCORES(KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);
   FORMAT MAJGRP $30. REGION $30. REGCAT $30. /** RSG 01/2005 Increase region format to
accommodate service affiliation **/
           BENEFIT $34. BENTYPE $50. TIMEPD $35.; ***MJS 06/23/03 Added TIMEPD; /* MER
11/08/12 Increase region/regcat formats */
  SET INLIB.MFINAL INLIB.CFINAL
     INLIB.RFINAL INLIB.SFINAL;
  ARRAY SEMEANS [*] SERRV1-SERRV&CMPNUM1. CP1SE;
  ARRAY SCORES(*) SCORV1-SCORV&CMPNUM1. CSCOR1;
  ARRAY SIGNIF(*) SIGV1-SIGV&CMPNUM1.
                                         CPSIG1;
  ARRAY NOBS {*} NOBSV1-NOBSV&CMPNUM1. CPOBS1;
  ARRAY NWGT (*) DENV1-DENV&CMPNUM1
                                        CPDEN1;
  DO I = 1 TO 5; ***RSG 04/2005 Changed 6 to 5;
    SCORE = SCORES{I};
     SEMEAN = SEMEANS{I};
     SIG
            = SIGNIF{I};
    N OBS = NOBS{I};
     N_WGT = NWGT\{I\};
     BENEFIT = "Preventive Care";
           I = 1 THEN BENTYPE = "Prenatal Care";
     ELSE IF I = 2 THEN BENTYPE = "Mammography";
     ELSE IF I = 3 THEN BENTYPE = "Pap Smear";
    ELSE IF I = 4 THEN BENTYPE = "Hypertension";
     /*RSG 04/2005 DELETED CHOLESTEROL*/
     ELSE IF I = 5 THEN BENTYPE = "Composite"; ***MJS 06/23/03 Changed &PERIOD to Composite;
     TIMEPD = "&PERIOD"; ***MJS 06/23/03 Added line;
```

OUTPUT;

END;

RUN;

DATA LOADMPRQ (KEEP=MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD SCORE SEMEAN SIG N_OBS N_WGT);

SET BENCHMKS SCORES INLIB.SMOKE;

RUN

PROC SORT DATA=LOADMPRQ OUT=OUT.LOADMPRQ;

BY MAJGRP REGION;

RUN;

I.5.A Q3FY2013\PROGRAMS\PurchasedLOADWEB\FAKEQ.SAS - Generate the WEB layout/template file - Run Ouarterly.

```
* PROJECT: DOD Quarterly Survey, Consumer Reports (6077-410)
 PROGRAM: FAKEO.SAS
* PURPOSE: Generate Fake Data for Report Cards
 AUTHOR:
           Mark A. Brinkley
 MODIFIED: 1) July 2000 By Eric Schone to utilize CACRPT and CATREP
               include files.
            2) February 2001 By Keith Rathbun - More updates for
               Quarterly report card format. Made FAKE datastep into
               a macro to handle multiple quarters. Added QTR and
               PERIOD parameters.
            3) July 2001 By Mark Brinkley - Updated for
               Quarterly 2 reports
            4) April 2002 By Keith Rathbun - Updated DSN and %LET
               statements for 2002 reports and added TREND records.
               Removed Flu Shot.
            5) July 2002 By Mike Scott - Updated DSN and %LET statements
               for Q2 2002 reports.
            6) March 2003 By Mike Scott - Updated for 2003 survey.
           7) June 2003 By Mike Scott - Added TIMEPD variable to be set to the period
               or 'Trend'. Changed from setting BENTYPE to the period or 'Trend' to
               setting to 'Composite'. Updated for Q2 2003.
           8) July 2003 BY Mike Scott - Above for K=7 through 10 in loop DO K=0 TO 11.
               Added LOADCAHQ.INC.
           9) October 2003 By Mike Scott - Updated for Q3 2003.
           10) January 2004 By Mike Scott - Updated for Q4 2003.
           11) March 2004 By Mike Scott - Updated for Q1 2004.
           12) June 2004 By Regina Gramss - Updated for Q2 2004.
           13) September 2004 By Regina Gramss - Updated for Q3 2004, to use XTNEXREG vs XREGION
           14) January 2005 By Regina Gramss - Prepare "Last Conus_q" for Q4 2005
               replace XTNEXREG with XSERVREG
           15) April 2005 By Regina Gramss - Update for Q1 2005, delete cholesterol
               bentype and include Healthy Behaviors composite and BMI bentype.
           16) July 2005 By Regina Gramss - Update for Q2 2005.
           17) October 2005 By Regina Gramss - Updated for Q3 2005
           18) December 2005 By Regina Gramss - Updated for Q4 2005
           19) March 2006 By Keith Rathbun - Updated for Q2 FY 2006
           20) July 2006 By Justin Oh - Updated for Q3 FY 2006
           21) 08/22/2006 By Justin Oh - Changed XSERVREG for Overseas
           22) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS063_1 to HCS064_1 for Q4FY2006 reports.
           23) 02/02/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS064_1 to HCS071_1 for Q4FY2006 reports.
           24) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS071_1 to HCS072_1 for Q4FY2006 reports.
           25) 06/22/2007 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS072_1 to HCS073_1 for Q3FY2007 reports.
           26) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data \mbox{HCS073\_1} to \mbox{HCS074\_1} for \mbox{Q4FY2007} reports.
           27) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS074_1 to HCS081_1 for Q1FY2008 reports.
           28) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
               Changed input data \mbox{HCS081\_1} to \mbox{HCS082\_1} for \mbox{Q2FY2008} reports.
           29) 06/13/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS082_1 to HCS083_1 for Q3FY2008 reports.
           30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS083_1 to HCS084_1 for Q4FY2008 reports.
           31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS084_1 to HCS091_1 for Q1FY2009 reports.
           32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA.
           33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS091_1 to HCS092_1 for Q2FY2009 reports.
           34) 04/11/2009 By Mike Rudacille - Updated composite definitions
               to reflect modifications to beneficiary reports necessary for V4
           35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed input data HCS092_1 to HCS093_1 for Q3FY2009 reports.
           36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
```

Changed input data HCS093_1 to HCS094_1 for Q4FY2009 reports.

```
37) 12/17/2009 By Emma Ernst - Changed %LET PERIOD1- Period4
               Changed input data to HCS10_1 for Q1FY2010
          38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS101_1 to HCS102_1 for Q2FY2010 reports.
          39) 03/30/2010 By Mike Rudacille - Changed input data from
              HCS102_1 to HCS102_2 (FIELDAGE no longer included in HCSyyq_1).
          40) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS102_2 to HCS103_2 for Q3FY2010 reports.
          41) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS103_2 to HCS104_2 for Q4FY2010 reports.
          42) 12/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data \mbox{HCS104\_2} to \mbox{HCS111\_2} for \mbox{Q1FY2011} reports.
          43) 02/24/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data \mbox{HCS111}_{2} to \mbox{HCS112}_{2} for \mbox{Q2FY2011} reports.
          44) 12/10/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCD114_2 to HCS121_2 for Q1FY2012 reports.
          45) 03/05/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS121_2 to HCS122_2 for Q2FY2012 reports.
          46) 06/20/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS122_2 to HCS123_2 for Q3FY2012 reports.
          47) 08/23/2012 By Christine Cheu - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS123_2 to HCS124_2 for Q4FY2012 reports.
          48) 11/03/2012 By Mike Rudacille - Updated for handling of
              Joint Service facilities
          49) 12/28/2012 By Aimee Valenzuela - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS124_2 to HCS131_2 for Q1FY2013 reports
          50) 03/23/2013 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
              Changed input data HCS131_2 to HCS132_2 for Q2FY2013 reports
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
              and composite data sets
%LET NUMQTR = 5;
                ***MJS 06/18/03 Changed 4 to 5;
%LET PERIOD1 = July, 2012;
%LET PERIOD2 = October, 2012;
%LET PERIOD3 = January, 2013;
%LET PERIOD4 = April, 2013;
%LET PERIOD5 = Trend; ***MJS 06/18/03 Added line;
%INCLUDE "LOADCAHQ.INC"; ***MJS 07/07/03 Added;
LIBNAME OUT
                "..\..\Data\AFinal";
TITRNAME IN
LIBNAME LIBRARY "..\..\Data\AFinal\fmtlib";
OPTIONS COMPRESS=YES NOFMTERR;
*******************
* CREATE TEMPORARY DATASET FOR RECODING CACSMPL TO BE COLLAPSED FOR
* REPORT CARD PURPOSES
* FOR QUARTERLY REPORTS CATCHMENT LEVEL REPORTING IS NOT DONE
* AND THEREFORE THE VALUE OF CELLP IS SET TO 1
* FOR ANNUAL REPORTING PURPOSES
* CELLP WILL NEED TO BE ASSIGNED TO GEOCELL (KEEP GEOCELL ON INPUT)
DATA TEMP;
 SET IN.HCS133 2;
   * CODE FOR XSERVREG FROM XTNEXREG
   *************************
   IF SERVAFF='A' THEN XSERVAFF=1;
                                              *Army;
      ELSE IF SERVAFF='F' THEN XSERVAFF=2;
                                              *Air Force;
      ELSE IF SERVAFF='N' THEN XSERVAFF=3;
      ELSE XSERVAFF=4;
   IF PUT(XCATCH, JOINTSRV.)='1' THEN XSERVAFF=5; *Joint Service;
   IF XTNEXREG = 1 THEN DO;
```

```
IF XSERVAFF = 1 THEN XSERVREG = 1;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 2;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 3;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 4;
       ELSE XSERVREG = 5;
    IF XTNEXREG = 2 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 6;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 7;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 8;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 9;
       ELSE XSERVREG = 10;
    END;
    IF XTNEXREG = 3 THEN DO;
       IF XSERVAFF = 1 THEN XSERVREG = 11;
       ELSE IF XSERVAFF = 2 THEN XSERVREG = 12;
       ELSE IF XSERVAFF = 3 THEN XSERVREG = 13;
       ELSE IF XSERVAFF = 4 THEN XSERVREG = 14;
       ELSE XSERVREG = 15;
    END;
    IF XTNEXREG = . THEN DELETE;
RUN;
proc freq;
table xservreg*cacsmpl/ noprint out=temp;
run;
data temp2;
length cafmt $30;
set temp end=last;
by xservreg;
 caf=0;
where cacsmpl ne 9999;
  if first.xservreg then do; /* took out condition for xregion= 8 since useing xservreg now */
   cafmt=put(xservreg,servregf.);
  end;
  cafmt=put(cacsmpl,catrep.);
  caf=1;
  if count>60 & cafmt ne 'INV' then output;
  if last then do;
   xservreg=0;
   caf=0;
   cafmt='Benchmark';
   output;
          /** RSG 01/2005 Add in codes for service affiliation categories **/
   caf=1;
   xservreg=16;
   cafmt='Overseas Europe';
   output;
  xservreg=17;
  cafmt='Overseas Pacific';
  output;
  xservreg=18;
   cafmt='Overseas Latin America';
   out.put.;
xservreg=19;
  cafmt = 'ARMY';
       output;
       xservreg=20;
       cafmt = 'AIR FORCE';
       output;
       xservreg=21;
       cafmt = 'NAVY';
       output;
```

```
xservreg=22;
       cafmt = 'OTHER';
        output;
       xservreg=23;
        cafmt = 'JOINT SERVICE';
       output;
       xservreg=24;
       cafmt = 'NORTH';
       output;
       xservreg=25;
       cafmt = 'SOUTH';
       output;
       xservreg=26;
       cafmt = 'WEST';
       output;
       xservreg=27;
       cafmt = 'OVERSEAS';
       output;
       xservreg=28;
       cafmt = 'USA MHS';
       output;
       xservreg=29;
       cafmt = 'Europe Army';
       output;
       xservreg=30;
       cafmt = 'Europe Air Force';
       output;
       xservreg=31;
       cafmt = 'Europe Navy';
       output;
       xservreg=32;
       cafmt = 'Europe Other';
       output;
       xservreg=33;
        cafmt = 'Europe Joint Service';
       output;
       xservreg=34;
       cafmt = 'Pacific Army';
       output;
       xservreg=35;
       cafmt = 'Pacific Air Force';
       output;
       xservreg=36;
       cafmt = 'Pacific Navy';
       output;
       xservreg=37;
       cafmt = 'Pacific Other';
       output;
       xservreg=38;
       cafmt = 'Pacific Joint Service';
       output;
       xservreg=39;
       cafmt = 'Latin America Army';
       output;
       xservreg=40;
       cafmt = 'Latin America Air Force';
       output;
       xservreg=41;
       cafmt = 'Latin America Navy';
       output;
       xservreg=42;
       cafmt = 'Latin America Other';
       output;
       xservreg=43;
        cafmt = 'Latin America Joint Service';
        output;
  end;
/*RSG~04/2005 order region groups the way it should appear in reports*/
data temp3 (rename=(temp_r=xservreg));
   set temp2;
       xservreg=0 then temp_r=1;
```

```
else if xservreg=28 then temp_r=2;
else if xservreg=19 then temp_r=3;
else if xservreg=21 then temp_r=4;
else if xservreg=20 then temp_r=5;
else if xservreg=22 then temp_r=6;
else if xservreg=23 then temp_r=7;
else if xservreg=24 then temp_r=8;
else if xservreg=1 then temp_r=9;
else if xservreg=3 then temp_r=10;
else if xservreg=2 then temp_r=11;
else if xservreg=4 then temp_r=12;
else if xservreg=5 then temp_r=13;
else if xservreg=25 then temp_r=14;
else if xservreg=6 then temp_r=15;
else if xservreg=8 then temp_r=16;
else if xservreg=7 then temp_r=17;
else if xservreg=9 then temp_r=18;
else if xservreg=10 then temp_r=19;
else if xservreg=26 then temp_r=20;
else if xservreg=11 then temp_r=21;
else if xservreg=13 then temp_r=22;
else if xservreg=12 then temp_r=23;
else if xservreg=14 then temp_r=24;
else if xservreg=15 then temp_r=25;
else if xservreg=27 then temp_r=26;
else if xservreg=16 then temp_r=27;
else if xservreg=17 then temp_r=28;
else if xservreg=18 then temp_r=29;
else if xservreg=29 then temp_r=30;
else if xservreg=31 then temp_r=31;
else if xservreg=30 then temp_r=32;
else if xservreg=32 then temp_r=33;
else if xservreg=33 then temp_r=34;
else if xservreg=34 then temp_r=35;
else if xservreg=36 then temp_r=36;
else if xservreg=35 then temp_r=37;
else if xservreg=37 then temp_r=38;
else if xservreg=38 then temp_r=39;
else if xservreg=39 then temp_r=40;
else if xservreg=41 then temp_r=41;
else if xservreg=40 then temp_r=42;
else if xservreg=42 then temp_r=43;
else if xservreg=43 then temp_r=44;
drop xservreq;
run;
proc sort;
by xservreg caf cafmt;
run;
data temp4;
set temp3 end=last;
start=_n_;
label=cafmt;
type='N';
fmtname='ROWMAT';
if last then call symput('x',_n_);
run;
proc format cntlin=temp4;
proc print data=temp4;
run;
%MACRO FAKE;
DATA FAKE;
 KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K; ***MJS 06/18/03 Added TIMEPD;
 LENGTH MAJGRP $ 30
         REGION $ 30
                         /*RSG 01/2005 lengthen format to fit service affiliation*/
```

```
REGCAT $ 30
                      /*MER 11/08/2012 length format for region/regcat for Joint Service
facilities */
         BENTYPE $ 50
         TIMEPD $ 35;
                       ***MJS 06/18/03 Added TIMEPD;
 DO I=1 TO 8;
                           ** 8 Major groups **;
    MAJGRP=PUT(I,MAJOR.);
                         ** Region/catchment **;
    DO J=1 TO \&x;
    REGCAT=PUT(J,ROWMAT.);
     RETAIN REGION;
     **RSG 01/2005 Change code to fit XSERVREG values**;
    IF SUBSTR(REGCAT,1,8) IN ('Benchmar','Overseas','OVERSEAS') OR
    SUBSTR(REGCAT,1,5) IN ('Pacif','Europ','Latin','North','South','West
','NORTH','SOUTH','WEST') OR
           REGCAT IN ('ARMY', 'AIR FORCE', 'NAVY', 'OTHER', 'JOINT SERVICE', 'USA MHS') THEN
REGION=REGCAT;
                         ** 11 Benefits **; /*** 04-11-09 MER ***/
       DO K=1 TO 11;
          BENEFIT=PUT(K,BEN.);
          IF K=1 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
              DO L=1 TO 3;
                  BENTYPE=PUT(L,GETNCARE.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
          ELSE IF K=2 THEN DO;
              DO L=1 TO 3;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                  BENTYPE=PUT(L,GETCAREQ.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
          ELSE IF K=3 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
              DO L=1 TO 5;
                  BENTYPE=PUT(L, HOWWELL.); ***that replaced BENTYPE hard assignment;
                  %DO 0 = 1 %TO &NUMOTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
          ELSE IF K=4 THEN DO;
              DO L=1 TO 3;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                  BENTYPE=PUT(L,CUSTSERV.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END:
          ELSE IF K=5 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
              DO L=1 TO 3;
                  BENTYPE=PUT(L,CLMSPROC.); ***that replaced BENTYPE hard assignment;
                  %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                      TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                  %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
              END;
          END;
```

```
ELSE IF K=6 THEN DO;
             DOO O = 1 TO WILMOTR;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                           ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         ELSE IF K=7 THEN DO;
             %DO Q = 1 %TO &NUMQTR;
                 BENTYPE = "Composite";
                                          ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         END;
         ELSE IF K=8 THEN DO;
              %DO O = 1 %TO &NUMOTR;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
          END;
         ELSE IF K=9 THEN DO;
             %DO Q = 1 %TO &NUMQTR;
                 BENTYPE = "Composite"; ***MJS 07/07/03 Added;
                 TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/ ***MJS 07/07/03
Changed BENTYPE to TIMEPD;
                                          ***MJS 07/07/03 Deleted BENTYPE="Trend" OUTPUT after
             %END;
this line;
         END;
         ELSE IF K=10 THEN DO;
                                             ***MJS 06/18/03 Added L loop and BENTYPE PUT;
             DO L=1 TO 5;
                 BENTYPE=PUT(L,PREVCARE.); ***that replaced BENTYPE hard assignment;
                 %DO Q = 1 %TO &NUMQTR; ***MJS 06/18/03 Moved loop inside L loop and changed
BENTYPE to TIMEPD;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT; /*** 02-01-2001 KRR ***/
                 %END; ***MJS 06/18/03 Deleted BENTYPE="Trend" and OUTPUT;
             END;
         END;
         ELSE IF K=11 THEN DO;
                                        ***RSG 02/2005 Added for smoking scores.;
             DO M=1 TO 4;
                 BENTYPE=PUT(M,SMOKEF.);
                  DO Q = 1 TO ENUMQTR;
                     TIMEPD = "&&PERIOD&Q"; OUTPUT;
                 %END;
             END;
         END;
       END;
    END;
 END;
RUN;
%MEND FAKE;
%FAKE;
/*** 12-13 MAB ***/
/*** Since quarterly files won't have catchment level data then delete ***/
DATA FAKE;
 SET FAKE;
 IF REGION=REGCAT;
RIIN;
/*** 12-13 MAB ***/
/*** Need to create single benchmarks for ALL major groups ***/
DATA EXTRA;
 SET FAKE;
 IF MAJGRP="Prime Enrollees" AND REGION=REGCAT AND REGION^="Benchmark";
 MAJGRP="Benchmark";
/*** Combine extra data with fake ***/
DATA FAKE;
```

```
SET EXTRA FAKE;
RUN;

/*** Need to clean up data ***/
DATA OUT.FAKEQ;
SET FAKE;

/*** Need to set oddball records to missing ***/
IF REGION="Benchmark" THEN SIG=.;
if region=''|compress(regcat)='.' then delete;

/*** Don't populate catchment areas for 4 major groups ***/
*IF I IN(3,4,6,7) AND REGION^=REGCAT THEN DELETE; /*** 12-13 MAB ***/

DROP I K;

RUN;

PROC FREQ;
TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG; ***MJS 07/21/03 Added TIMEPD;
RUN;

ENDSAS;
```

I-107

I.5.B Q3FY2013\PROGRAMS\PurchasedLOADWEB\MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases into the WEB layout - Run Quarterly.

```
* PROGRAM: MERGFINQ.SAS
* TASK:
            Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
            Merge the final CAHPS and MPR Scores Databases
            into the WEB layout preserving the order of the FAKEQ.SD2.
* WRITTEN: 11/09/2000 BY KEITH RATHBUN, Adapted from MERGFINL.SAS.
* INPUTS:
            1) MPR and CAHPS Individual and Composite data sets with adjusted
               scores, and benchmark data for quarterly DoD HCS.
                - LOADMPRQ.sas7bdat - MPR Scores Database
                - LOADCAHQ.sas7bdat - CAHPS Scores Database
                - BENCHA04.sas7bdat - CAHPS Benchmark Database
                - FAKEQ.sas7bdat
                                     - WEB Layout in Column order
 OUTPUT:
            1) MERGFINQ.sas7bdat - Combined Scores Database in WEB layout
 INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
                and composite data sets
* MODIFIED: 1) 07/15/2002 by Mike Scott: Updated libnames for Q2 2002.
            2) 03/21/2003 by Mike Scott: Updated for 2003 survey.
            3) 07/09/2003 by Mike Scott: Updated for Q2 2003. Added TIMEPD to KEYs.
            4) 07/23/2003 by Mike Scott: Added TIMEPD to FREQs and PRINT.
            5) 10/21/2003 by Mike Scott: Updated for Q3 2003.
            6) 01/07/2004 by Mike Scott: Updated for Q4 2003.
            7) 03/24/2004 by Mike Scott: Updated for Q1 2004.
            8) 06/22/2004 by Regina Gramss: Updated for Q2 2004.
            9) 09/2004
                         by Regina Gramss: Updated for Q3 2004, Use XTNEXREG vs XREGION
           10) 01/2005
                           by Regina Gramss: Changed XTNEXREG to XSERVREG to compile
                "Last conus_q" for Q4 2005
           11) 04/2005
                          by Regina Gramss: Updated for Q1 2005
           12) 07/2005
                           by Regina Gramss: updated for Q2 2005
                         by Regina Gramss: Updated for Q3 2005
           13) 10/2005
                         by Regina Gramss: Updated for Q4 2005
           14) 12/2005
           15) 07/2006
                           by Justin Oh: Updated for Q3 FY 2006
           16) 08/22/2006 by Justin Oh: Change DO REG = 1 TO 15 from 1 TO 16
           17) 10/03/2006 by Justin Oh - Changed libname in 2 and in 3 for Q4FY2006.
           18) 12/20/2006 by Justin Oh - Changed libname in2 and in3 for Q1FY2007.
           19) 04/05/2007 by Justin Oh - Changed libname in 2 and in 3 for Q2FY2007. 20) 04/05/2007 by Justin Oh - Added %LET RCTYPE to select RC types
               ReportCards OR PurchasedReportCards.
           21) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
               Benchmark OR PurchasedBenchmark.
           22) 09/05/2007 by Justin Oh - Changed libname in 2 and in 3 for Q4FY2007.
           23) 01/10/2008 by Keith Rathbun - Changed libname in2 and in3 for Q1FY2008.
           24) 04/11/2008 by Justin Oh - Changed libname in 2 and in 3 for Q2FY2008.
           25) 06/13/2008 by Keith Rathbun - Changed libname in 2 and in 3 for O3FY2008.
           26) 10/02/2008 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2008.
           27) 01/06/2009 by Mike Rudacille - Changed libname in 2 and in 3 for Q1FY2009. 28) 01/16/2009 by Mike Rudacille - Changed CONUS to USA.
           29) 03/11/2009 by Keith Rathbun - Changed libname in2 and in3 for Q2FY2009.
           30) 06/23/2009 by Keith Rathbun - Changed libname in 2 and in 3 for Q3FY2009.
           31) 09/30/2009 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2009.
           32) 12/17/2009 by Emma Ernst- Changed libname in 2 and in 3 for Q1FY2010.
           33) 03/02/2010 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2010.
           34) 06/19/2010 by Mike Rudacille - Changed libname in2 and in3 for Q3FY2010.
35) 08/28/2010 by Mike Rudacille - Changed libname in2 and in3 for Q4FY2010.
           36) 12/02/2010 by Mike Rudacille - Changed libname in 2 and in 3 for Q1FY2011.
           37) 02/24/2011 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2011.
           38) 12/10/2011 by Mike Rudacille - Changed libname in2 and in3 for Q1FY2012.
           39) 03/05/2012 by Amanda Kudis - Changed libname in2 and in3 for Q2FY2012.
           40) 06/20/2012 by Amanda Kudis - Changed libname in 2and in 3 for Q3FY2012.
           41) 08/23/2012 by Christine Cheu - Changed libname in2 and in3 for Q4FY2012.
42) 11/03/2012 by Mike Rudacille - Updated for handling of
               Joint Service facilities
           43) 12/28/2012 by Aimee Valenzuela - Changed libname in2 and in3 for Q1FY2013.
           44) 03/23/2013 by Mike Rudacille - Changed libname in2 and in3 for Q2FY2013.
```

```
* NOTES:
* 1) The following steps need to be run prior to this program:
  - STEP1Q.SAS - Recode questions and generate CAHPS group files
- STEP2Q.SAS - Calculate CAHPS individual adjusted scores for groups 1-7
  - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
- PRVCOMPQ.SAS - Calculate MPR individual and composite scores
  - BENCHA01-04.SAS - Convert Benchmark Scores into WEB layout
  - LOADCAHQ.SAS - Convert Quarterly CAHPS Scores Database into WEB layout - LOADMPRQ.SAS - Convert Quarterly MPR Scores Database into WEB layout
  - LOADMPRO.SAS
* 2) The output file (MERGFINQ.SD2) will be run through the
    MAKEHTMQ.SAS program to generate the WEB pages.
*******************
* Assign data libraries and options
/*** SELECT PROGRAM - ReportCards OR PurchasedReportCards
%LET RCTYPE = PurchasedReportCards;
/*** SELECT PROGRAM - Benchmark OR PurchasedBenchmark
%LET BCHTYPE = PurchasedBenchmark;
LIBNAME IN1 ".";
LIBNAME IN2 "CAHPS ADULTO3FY2013\Data";
LIBNAME IN3 "..\&RCTYPE\MPR_AdultQ3FY2013";
LIBNAME IN4 "..\&BCHTYPE\Data";
LIBNAME OUT ".";
LIBNAME LIBRARY
               "..\..\DATA\AFINAL\FMTLIB";
OPTIONS PS=79 LS=232 COMPRESS=YES NOCENTER; ***MJS 07/23/03 Changed LS from 132;
%INCLUDE "LOADCAHQ.INC";
******************
* Construct ORDERing variable from WEB layout
******************************
DATA ORDER;
  SET IN1.FAKEO;
  ORDER = _N_;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) | | UPCASE(TRIM(BENTYPE)) | |
        KEEP KEY ORDER;
RUN;
PROC SORT DATA=ORDER; BY KEY; RUN;
*******************
* Merge the Scores Databases
*************************
DATA MERGFINO;
  SET IN2.LOADCAHQ(IN=INCAHPQ)
      IN3.LOADMPRO(IN=INMPRO)
      IN4.BENCHA04(IN=INBENQ );
  SVCAHPQ = INCAHPQ;
  SVMPRQ = INMPRQ;
  SVBENQ = INBENQ;
  LENGTH KEY $200;
  KEY = UPCASE(TRIM(BENEFIT)) | | UPCASE(TRIM(BENTYPE)) | |
        UPCASE(TRIM(MAJGRP)) || UPCASE(TRIM(REGCAT)) ||
UPCASE(TRIM(REGION)) || UPCASE(TRIM(TIMEPD)); ***MJS 07/09/03 Added TIMEPD;
  KEYLEN=LENGTH(KEY);
  KEYTEST=LENGTH(BENEFIT)+LENGTH(BENTYPE)+LENGTH(MAJGRP)+LENGTH(REGION)+LENGTH(TIMEPD);
  OUTPUT;
  IF INBENO THEN DO;
     IF MAJGRP = "All Beneficiaries" THEN DO;
       DO REG = 1 TO 30; DROP REG; /*JSO 08/24/2006, Changed Regions, 16 to 24*/ /*MER
11/03/12 24 to 30*/
              MAJGRP = "Benchmark";
```

```
REGION = PUT(REG,SERVREGF.);
               REGCAT = PUT(REG, SERVREGF.);
               KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) |
                                             | UPCASE(TRIM(REGCAT)) |
                      UPCASE(TRIM(MAJGRP))
                                                                          ***MJS 07/09/03 Added
                      UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
TIMEPD;
               OUTPUT;
         END;
         DO SERV = 1 TO 5; DROP SERV; /*RSG 02/2005 Add in serv affiliation*/ /*MER 11/03/12 4
to 5*/
               MAJGRP = "Benchmark";
               REGION = PUT(SERV, XSERVAFF.);
               REGCAT = PUT(SERV, XSERVAFF.);
               KEY = UPCASE(TRIM(BENEFIT)) | | UPCASE(TRIM(BENTYPE)) | |
                      UPCASE(TRIM(REGION)) | | UPCASE(TRIM(TIMEPD));
               OUTPUT;
         END;
        MAJGRP = "Benchmark";
        REGION = 'NORTH';
        REGCAT = 'NORTH';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) |
UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) |
UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'Overseas Europe';
        REGCAT = 'Overseas Europe';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) |
               UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'Overseas Pacific';
        REGCAT = 'Overseas Pacific';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE))
               UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) |
UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'Overseas Latin America';
        REGCAT = 'Overseas Latin America';
         KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
               UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) |
UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
        MAJGRP = "Benchmark";
        REGION = 'SOUTH';
        REGCAT = 'SOUTH';
        UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'WEST';
         REGCAT = 'WEST';
        UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION));
         OUTPUT;
         MAJGRP = "Benchmark";
         REGION = 'OVERSEAS';
         REGCAT = 'OVERSEAS';
        UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD));
```

```
OUTPUT;
       MAJGRP = "Benchmark";
       REGION = 'USA MHS';
       REGCAT = 'USA MHS';
       OUTPUT;
     END;
  END;
  IF SCORE = . THEN DELETE;
RUN;
PROC SORT DATA=MERGFINQ; BY KEY; RUN;
*******************
* Append ORDERing variable to the merged Scores database file
*********************************
DATA MERGFINQ MISSING;
  MERGE MERGFINQ(IN=IN1) ORDER(IN=IN2);
  BY KEY;
  LENGTH FLAG $30;
  IF IN1 AND IN2 THEN FLAG = "IN SCORES DB AND LAYOUT"; ELSE IF IN1 THEN FLAG = "IN SCORES DB ONLY";
           IN2 THEN FLAG = "IN LAYOUT ONLY";
  ELSE IF
  LENGTH SOURCE $30;
  IF SVCAHPQ = 1 THEN SOURCE = "CAHPS
  IF SVMPRQ = 1 THEN SOURCE = "MPR ";
  IF SVBENQ = 1 THEN SOURCE = "BENCHMARK";
  IF IN1 AND NOT IN2 THEN OUTPUT MISSING; *Missing from layout;
  IF IN1 THEN OUTPUT MERGFINQ;
RUN;
*******************
* Reorder file according to WEB layout
PROC SORT DATA=MERGFINQ OUT=OUT.MERGFINQ; BY ORDER; RUN;
DATA FAKEQ;
  SET IN1.FAKEO;
  ORDER = _N_;
RUN;
DATA LAYONLY;
  MERGE FAKEQ(IN=IN1) OUT.MERGFINQ(IN=IN2 KEEP=ORDER);
  BY ORDER;
  IF IN1 AND NOT IN2;
RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6663-410)";
TITLE2 "Program Name: MERGFINQ.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MPR and CAHPS Combined Scores data sets and WEB Layout";
TITLE4 "Program Outputs: MERGFINQ.sas7bdat - Merged Final Scores Database for input to
MAKEHTML.SAS";
TITLE5 "MERGFINQ.sas7bdat Data source counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES SOURCE FLAG SVCAHPQ SVMPRQ SVBENQ
                SVCAHPQ*SVMPRQ*SVBENQ
     /MISSING LIST;
RUN;
TITLE5 "MERGFINQ.sas7bdat Data attribute counts";
PROC FREQ DATA=OUT.MERGFINQ;
TABLES BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/23/03 Added TIMEPD*/
     REGION*REGCAT
     /MISSING LIST;
```

RUN;

I.6 Q3FY2013\PROGRAMS\PurchasedLOADWEB\CONUS_Q.SAS - Generate CAHPS CONUS scores and perform significance tests - Run Quarterly.

```
PROGRAM: CONUS_Q.SAS
TASK:
          Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
PURPOSE: Generate CAHPS CONUS scores and perform significance tests.
WRITTEN: 11/13/2000 BY KEITH RATHBUN, Adapted from CONUS_A.SAS.
          Merged SIGNIF_A.SAS funtionality.
MODIFIED: 1) 04/10/2002 BY KEITH RATHBUN, Update for 2002 survey:
             changed code to process 4 rolling quarters.
          2) 04/30/2002 By Eric Schone, to calculate & test trend.
          3) 07/17/2002 BY MIKE SCOTT, Updated %LET statements for
             Q2 2002.
          4) 03/21/2003 BY MIKE SCOTT, Updated for 2003 survey.
          5) 07/08/2003 BY MIKE SCOTT, Updated for Q2 2003. Changed BENTYPE="&PERIOD4"
             to BENTYPE="Composite". Added TIMEPD to KEY and FREQ.
          6) 07/23/2003 BY MIKE SCOTT, Added TIMEPD constraint to DATA LASTQTR.
          7) 10/21/2003 BY MIKE SCOTT, Updated for Q3 2003. 8) 01/07/2004 BY MIKE SCOTT, Updated for Q4 2003.
          9) 01/28/2004 BY MIKE SCOTT, Updated LSTCONUS to point to Q3_2003t.
         10) 03/23/2004 BY MIKE SCOTT, Updated for Q1 2004.
         11) 06/22/2004 BY REGINA GRAMSS, Updated for Q2 2004, Added conditions
             to avoid error messages in data sigtest2 step (ensure degree of freedom
             is not zero for the probt function) and data trend steps (ensure division
             by zero is not taking place).
         12) 09/2004 BY REGINA GRAMSS, Updated for Q3, 2004. Added in codes
             for trend calculations (per Eric Schone). Revised to use XTNEXREG.
         13) 01/2005 BY REGINA GRAMSS, Changed codes for XTNEXREG to XSERVREG
             to incorporate service affiliation into regions. Change
             adjustments made to trend calculation to what was previous.
         14) 06/2005 BY REGINA GRAMSS, Included relevant codes from TOTAL_Q.SAS
             to consolidate both programs into one. TOTAL_Q.SAS will no longer
             be used. Also put in codes to set trend score to missing if any of the
             previous scores are missing.
         15) 10/2005 BY REGINA GRAMSS, Updated for Q3 2005
         16) 12/2005 BY REGINA GRAMSS, Updated for Q4 2005
         17) 07/2006 BY Justin Oh, Updated for Q3 FY 2006
         18) 10/03/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         19) 12/20/2006 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         20) 02/02/2007 By Justin Oh - Added "s" to Healthy Behaviors.
         21) 02/16/2007 By Justin Oh - Added if statement to change BENEFIT
             "Heathly Behavior" to Healthy "Behaviors" for the Last CONUS_Q.SD2 data
         22) 04/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         23) 04/05/2007 by Justin Oh - Added %LET BCHTYPE to select BCH types
             Benchmark OR PurchasedBenchmark.
         24) 04/05/2007 by Justin Oh - Added changes to select RC types
             ReportCards OR PurchasedReportCards.
         25) 10/03/2007 by Justin Oh - Removed code that removed Civilian PCM.
             IF "&RCTYPE" = 'ReportCards' AND
             MAJGRP="Enrollees with Civilian PCM" THEN DELETE;
         26) 10/03/2007 by Justin Oh - Removed %LET BCHTYPE to select BCH types
             Benchmark OR PurchasedBenchmark.
         27) 09/05/2007 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         28) 01/10/2008 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         29) 04/11/2008 By Justin Oh - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         30) 10/02/2008 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS.
         31) 01/06/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS
         32) 01/16/2009 By Mike Rudacille - Changed CONUS to USA where appropriate
         33) 03/11/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
             Changed %LET LSTCONUS
```

```
34) 04/11/2009 By Mike Rudacille - Changed BENTYPE and Composite definitions
               to reflect modifications to beneficiary reports necessary for {\tt V4}
           35) 06/22/2009 By Keith Rathbun - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           36) 09/30/2009 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           37) 12/17/2010 by Emma Ernst- Changed %LET PERIOD1 - PERIOD4.
               Changed %LET LSTCONUS
           38) 03/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           39) 06/19/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           40) 08/28/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           41) 12/02/2010 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           42) 02/24/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           43) 12/10/2011 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           44) 03/05/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           45) 06/20/2012 By Amanda Kudis - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           46) 08/23/2012 By Christine Cheu - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS
           47) 11/03/2012 By Mike Rudacille - Updated for handling of
               Joint Service facilities
           48) 12/28/2012 By Aimee Valenzuela - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS for Q1FY2013
           49) 03/23/2013 By Mike Rudacille - Changed %LET PERIOD1 - PERIOD4
               Changed %LET LSTCONUS for Q2FY2013
   INPUTS: 1) MERGFINQ.sas7bdat - Scores Database in WEB Layout
            2) FAKEQ.sas7bdat - Scores Database WEB Layout
            3) CONUS_Q.sas7bdat - Previous Quarters Combined CAHPS/MPR Scores Database in WEB
layout
   OUTPUT: 1) TOTAL_Q.sas7bdat - Combined CAHPS/MPR Scores Database in WEB layout
            2) LT30Q.sas7bdat - Records with <= 30 observations
            3) CONUS_Q.sas7bdat - Current Quarters Combined CAHPS/MPR Scores Database in WEB
layout
    NOTES:
* 1) The following steps need to be run prior to this program:
    - STEP1Q.SAS - Recode questions and generate group files
- STEP2Q.SAS - Calculate individual adjusted scores for group 1-7
    - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
    - LOADCAHPQ.SAS - Combine all questionnaire (CAHPS) scores together
    - PRVCOMPQ.SAS - Calculate preventative measure scores for group1-8
    - SMOKING_BMI.SAS - Calculate healthy behaviors scores for group1-8
     - LOADMPRQ.SAS - Combined preventative and healthy behaviors scores
     - MERGFINQ.SAS - Merge the final CAHPS and MPR Scores Databases
******************
* Assign data libraries and options
**********************
LIBNAME IN1 ".";
LIBNAME OUT ".";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;
************************
* Define GLOBAL parameters for last CONUSQ.sas7bdat, rolling quarters, and
* input dataset name.
* IMPORTANT: Update these GLOBALS each quarter prior to rerunning program.
%LET LSTCONUS = ..\..\Q2FY2013t\Programs\PurchasedLoadweb;
```

```
%LET PERIOD1 = July, 2012;
%LET PERIOD2 = October, 2012;
%LET PERIOD3 = January, 2013;
%LET PERIOD4 = April, 2013;
%LET DSN
           = MERGFINQ;
*****************************
* Set up empty template file for data merge purposes and set first time flag
***********************
DATA INIT;
  SET IN1.&DSN;
  DELETE;
RIIN;
LET FLAG = 0;
* Process Macro Input Parameters:
* 1) BENTYPE = Benefit Type
* 2) MAJGRP = Major Group
* 3) TYPE = INDIVIDUAL or COMPOSITE
* 4) BENEFIT = COMPOSITE Benefit Type
%MACRO PROCESS(BENTYPE=,MAJGRP=,TYPE=,BENEFIT=);
DATA TEMP;
  SET IN1.&DSN END=FINISHED;
  %IF "&TYPE" = "INDIVIDUAL" %THEN %DO;
      WHERE BENTYPE = "&BENTYPE" AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
            /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
            /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
            SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
            SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
            REGION NOT IN ("ARMY", "AIR FORCE", "NAVY", "OTHER", "JOINT SERVICE");
   %END;
   %ELSE %IF "&TYPE" = "COMPOSITE" %THEN %DO;
      WHERE BENTYPE = &BENTYPE AND "&MAJGRP" = MAJGRP AND REGION = REGCAT AND
            BENEFIT = "&BENEFIT" AND
            /*SUBSTR(REGION,1,5) NOT IN("Bench","USA") AND*/
            /*SUBSTR(REGCAT,1,5) NOT IN("Bench","USA") AND*/
            SUBSTR(REGION,1,5) NE "Bench" AND SUBSTR(REGION,1,3) NE "USA" AND
            SUBSTR(REGCAT,1,5) NE "Bench" AND SUBSTR(REGCAT,1,3) NE "USA" AND
            REGION NOT IN ("ARMY", "AIR FORCE", "NAVY", "OTHER", "JOINT SERVICE");
   %END;
   %ELSE %DO;
      PUT "ERROR - Invalid Type = &TYPE";
   %END;
  IF SUBSTR(REGION,1,5) IN ('North','South') THEN DO;
            SUBSTR(REGION, 1, 5) = 'North' THEN REGCON=1;
     ELSE IF SUBSTR(REGION, 1, 5) = 'South' THEN REGCON=2;
     TOTCON=1;
            SUBSTR(REGION, 7, 4) = 'Army'
                                            THEN SERVICE=1;
     ELSE IF SUBSTR(REGION, 7, 9) = 'Air Force' THEN SERVICE=2;
     ELSE IF SUBSTR(REGION, 7, 4) = 'Navy'

ELSE IF SUBSTR(REGION, 7, 4) = 'Navy'
                                            THEN SERVICE=3;
     ELSE IF SUBSTR(REGION,7,5)='Joint'
                                           THEN SERVICE=5;
     ELSE
                                                SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,4)='West' THEN DO;
     TOTCON=1;
     TF
           SUBSTR(REGION, 6, 4) = 'Army' THEN SERVICE=1;
     ELSE IF SUBSTR(REGION, 6, 9) = 'Air Force' THEN SERVICE=2;
     ELSE IF SUBSTR(REGION, 6, 4) = 'Navy'

THEN SERVICE=3;
     ELSE IF SUBSTR(REGION, 6, 5) = 'Joint'
                                           THEN SERVICE=5;
     ELSE
                                                SERVICE=4;
  END;
  ELSE IF SUBSTR(REGION,1,6)='Europe' THEN DO;
     REGCON=4;
     TOTCON=2;
     IF SUBSTR(REGION, 8, 4) = 'Army'
                                           THEN SERVICE=1;
     ELSE IF SUBSTR(REGION, 8, 9) = 'Air Force' THEN SERVICE=2;
```

```
ELSE IF SUBSTR(REGION, 8, 4) = 'Navy'

ELSE IF SUBSTR(REGION, 8, 5) = 'Joint'

ELSE
                                                  THEN SERVICE=5;
      ELSE
                                                         SERVICE=4;
   END;
      ELSE IF SUBSTR(REGION, 1, 7) = 'Pacific' THEN DO;
      REGCON=5;
      TOTCON=2;
              SUBSTR(REGION, 9, 4) = 'Army'
                                                 THEN SERVICE=1;
      ELSE IF SUBSTR(REGION,9,9)='Air Force' THEN SERVICE=2;
      ELSE IF SUBSTR(REGION, 9, 4) = 'Navy'

ELSE IF SUBSTR(REGION, 9, 4) = 'Navy'
                                                   THEN SERVICE=3;
      ELSE IF SUBSTR(REGION, 9, 5) = 'Joint'
                                                  THEN SERVICE=5;
      ELSE
                                                        SERVICE=4;
   ELSE IF SUBSTR(REGION,1,13)='Latin America' THEN DO;
      TOTCON=2;
      IF
              SUBSTR(REGION, 15, 4) = 'Army'
                                                  THEN SERVICE=1;
      ELSE IF SUBSTR(REGION, 15, 9) = 'Air Force' THEN SERVICE = 2;
      ELSE IF SUBSTR(REGION, 15, 4) = 'Navy' THEN SERVICE=3;
                                                 THEN SERVICE=5;
      ELSE IF SUBSTR(REGION, 15, 5) = 'Joint'
      ELSE
                                                        SERVICE=4;
   END;
RUN;
* RSG 01/2005 Calc. total Service Affiliation Scores *;
PROC SORT DATA=TEMP;
BY SERVICE;
DATA TEMP2;
   SET TEMP;
   BY SERVICE;
      length key $200;
   IF FIRST.SERVICE THEN DO;
      SUMSCOR1 - 0:

SUMWGT1 = 0:

RETAIN SUMWSE2:

RETAIN SUMWGT2
      SUMSCOR1 = 0;      RETAIN SUMSCOR1;
                        RETAIN SUMWGT1;
     SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN N_OBS1;
   END;
   IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT); IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
   IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
   IF N_OBS NE . THEN N_OBS1 + N_OBS;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
     FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;
   IF LAST.SERVICE THEN DO;
      IF SUMWGT1 NOTIN (.,0) THEN DO;
         SCORE = SUMSCOR1/SUMWGT1;
         SEMEAN = SQRT(SUMSE2)/SUMWGT1;
      ELSE DO:
         SCORE
                 = .;
         SEMEAN = .;
      END;
      N_OBS = N_OBS1;
      N_WGT
               = SUMWGT1;
      SOURCE = "USA";
             = "USA";
      IF SERVICE=1 THEN REGION = "ARMY";
      IF SERVICE=2 THEN REGION = "AIR FORCE";
      IF SERVICE=3 THEN REGION = "NAVY";
      IF SERVICE=4 THEN REGION = "OTHER";
      IF SERVICE=5 THEN REGION = "JOINT SERVICE";
```

THEN SERVICE=3;

ELSE IF SUBSTR(REGION, 8, 4) = 'Navy'

```
REGCAT = REGION;
    OUTPUT;
  END;
RIIN:
* RSG 01/2005 Calc. Total Region scores
*****************
PROC SORT DATA=TEMP;
BY REGCON;
DATA TEMP3;
  SET TEMP;
  BY REGCON;
    length key $200;
  IF FIRST.REGCON THEN DO;
    SUMSCOR1 = 0;     RETAIN SUMSCOR1;
    SUMWGT1 = 0;
                RETAIN SUMWGT1;
    SUMSE2 = 0; RETAIN SUMSE2;
SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN N_OBS1;
  END;
  IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
  IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
  IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
  IF N_OBS NE . THEN N_OBS1 + N_OBS;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
    FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;
  IF LAST.REGCON THEN DO;
    IF SUMWGT1 NOTIN (.,0) THEN DO;
       SCORE = SUMSCOR1/SUMWGT1;
       SEMEAN = SQRT(SUMSE2)/SUMWGT1;
    END;
    ELSE DO;
       SCORE = .;
       SEMEAN = .;
    END;
    N_OBS
          = N_OBS1;
    N_WGT = SUMWGT1;
    SOURCE = "REGION";
          = "REGION";
    FTAG
    IF REGCON=1 THEN REGION = "NORTH";
    IF REGCON=2 THEN REGION = "SOUTH";
    IF REGCON=3 THEN REGION = "WEST";
    IF REGCON=4 THEN REGION = "Overseas Europe";
    IF REGCON=5 THEN REGION = "Overseas Pacific";
    IF REGCON=6 THEN REGION = "Overseas Latin America";
    REGCAT = REGION;
    UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
    OUTPUT;
  END;
RIIN;
* RSG 01/2005 Calc. Total CONUS Scores
* MER 01/2009 Changed CONUS to USA
PROC SORT DATA=TEMP;
BY TOTCON;
DATA TEMP4;
  SET TEMP END=FINISHED;
  BY TOTCON;
    length key $200;
  IF FIRST.TOTCON THEN DO;
    SUMSCOR1 = 0;
                 RETAIN SUMSCOR1;
```

```
SUMWGT1 RETAIN SUMSE2;
SUMWGT2 = 0; RETAIN SUMWGT2;
N_OBS1 = 0; RETAIN SUMWGT2;
                       RETAIN SUMWGT2;
   END;
      IF SCORE NE . AND N_WGT NE . THEN SUMSCOR1 = SUMSCOR1 + (SCORE*N_WGT);
      IF N_WGT NE . THEN SUMWGT1 = SUMWGT1 + N_WGT;
      IF SEMEAN NE . AND N_WGT NE . THEN SUMSE2 = SUMSE2 + (SEMEAN*N_WGT)**2;
      IF N_OBS NE . THEN N_OBS1 + N_OBS;
   IF LAST. TOTCON THEN DO;
      IF SUMWGT1 NOTIN (.,0) THEN DO;
        SCORE = SUMSCOR1/SUMWGT1;
        SEMEAN = SQRT(SUMSE2)/SUMWGT1;
         END:
         ELSE DO;
           SCORE = .;
SEMEAN = .;
         END;
      N_OBS = N_OBS1;
      N WGT
             = SUMWGT1;
      SOURCE = "USA";
            = "USA";
   IF TOTCON=1 THEN REGION = "USA MHS";
   IF TOTCON=2 THEN REGION = "OVERSEAS";
      REGCAT = REGION;
      KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
            UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
END;
KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
    FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 KEY; ***MJS 07/08/03 Added TIMEPD;
RUN;
%IF &FLAG = 0 %THEN %DO;
   DATA FINAL;
     SET INIT TEMP2 TEMP3 TEMP4;
  RIIN;
%END;
%ELSE %DO;
   DATA FINAL;
     SET FINAL TEMP2 TEMP3 TEMP4;
  RUN;
%END;
LET FLAG = 1;
%MEND;
******************
* Create CONUS for Active Duty - Individual
*************************
%PROCESS(BENTYPE=Claims Handled Correctly
                                                    ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
                                                    ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
%PROCESS(BENTYPE=Listens Carefully
%PROCESS(BENTYPE=Shows Respect
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
                                                    ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
%PROCESS(BENTYPE=Wait for Routine Visit
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                     ,MAJGRP=Active Duty, TYPE=INDIVIDUAL);
```

```
* Create CONUS for Active Duty Dependents - Individual
*******************************
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                 ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                 ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                 ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
                                                ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                 ,MAJGRP=Active Duty Dependents,
TYPE=INDIVIDUAL);
* Create CONUS for Enrollees with Civilian PCM - Individual
*******************************
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                 ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                 .MAJGRP=Enrollees with Civilian PCM.
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                               .MAJGRP=Enrollees with Civilian PCM.
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                 ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                ,MAJGRP=Enrollees with Civilian PCM,
TYPE=INDIVIDUAL);
                                                ,MAJGRP=Enrollees with Civilian PCM,
%PROCESS(BENTYPE=Wait for Routine Visit
TYPE=INDIVIDUAL);
                                                 ,MAJGRP=Enrollees with Civilian PCM,
%PROCESS(BENTYPE=Wait for Urgent Care
TYPE=INDIVIDUAL);
* Create CONUS for Enrollees with Military PCM - Individual
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                 ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                 ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                               ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
```

```
%PROCESS(BENTYPE=Listens Carefully
                                                                          ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                                           ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                                          ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
                                                                           ,MAJGRP=Enrollees with Military PCM,
TYPE=INDIVIDUAL);
                                                                           ,MAJGRP=Enrollees with Military PCM,
%PROCESS(BENTYPE=Wait for Urgent Care
TYPE=INDIVIDUAL);
*************
* Create CONUS for Non-enrolled Beneficiaries - Individual
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                                          ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
%PROCESS(BENTYPE=Getting Information
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                                                          ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                                           .MAJGRP=Non-enrolled Beneficiaries.
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                                          ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                                                          ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                                           ,MAJGRP=Non-enrolled Beneficiaries,
TYPE=INDIVIDUAL);
*************************
* Create CONUS for Prime Enrollees - Individual
*******************************
%PROCESS(BENTYPE=Claims Handled Correctly
                                                                          ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
*PROCESS(BENTYPE=Cetting Teffer); *MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL); *MAJGRP=TROLLees, TYPE=INDIVIDUAL); *MAJGRP=TROLLees,
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
                                                                          ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
                                                                           ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                                          ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
                                                                          ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                                                         ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
%PROCESS(BENTYPE=Wait for Routine Visit
                                                                           ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                                                           ,MAJGRP=Prime Enrollees, TYPE=INDIVIDUAL);
* Create CONUS for Retirees and Dependents - Individual
%PROCESS(BENTYPE=Claims Handled Correctly
                                                                          ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Courteous Customer Service
                                                                           ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Explains so You Can Understand
                                                                          ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Information
                                                                           ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting to See a Specialist
                                                                         ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Getting Treatment
                                                                          ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
```

```
%PROCESS(BENTYPE=Listens Carefully
                                            ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Shows Respect
                                             ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                            ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
                                             ,MAJGRP=Retirees and Dependents,
%PROCESS(BENTYPE=Wait for Routine Visit
TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Urgent Care
                                             ,MAJGRP=Retirees and Dependents,
TYPE=INDIVIDUAL);
*****************
* Create CONUS for All Beneficiaries - Individual
*************************
%PROCESS(BENTYPE=Claims Handled Correctly ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
*PROCESS(BENTYPE=Getting Information (MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

*MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

*MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);

*MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Claims Handled in a Reasonable Time, MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Listens Carefully
%PROCESS(BENTYPE=Shows Respect
                                            ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Spends Time with You
                                            ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
                                            ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
%PROCESS(BENTYPE=Wait for Routine Visit
%PROCESS(BENTYPE=Wait for Urgent Care
                                            ,MAJGRP=All Beneficiaries, TYPE=INDIVIDUAL);
*******************
* Process Quarterly CONUS Composites
******************
*******************
* Create CONUS for Claims Processing - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
Processing); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE, BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Claims
Processing);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
Processing);
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                       , TYPE=COMPOSITE, BENEFIT=Claims
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
Processing);
*******************
* Create CONUS for Customer Service - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                               , TYPE=COMPOSITE, BENEFIT=Customer
Service); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Customer
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Customer
Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Customer
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Customer
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                       . TYPE=COMPOSITE.BENEFIT=Customer
Service);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                       , TYPE=COMPOSITE, BENEFIT=Customer
Service);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                       , TYPE=COMPOSITE, BENEFIT=Customer
Service);
******************
* Create CONUS for Getting Care Quickly - Quarterly
*************************
```

```
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                          , TYPE=COMPOSITE, BENEFIT=Getting
Care Ouickly); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Care Ouickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Getting
Care Ouickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Getting
Care Ouickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Care Quickly);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Care Quickly);
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
Care Ouickly);
*******************
* Create CONUS for Getting Needed Care - Quarterly
, TYPE=COMPOSITE, BENEFIT=Getting
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
Needed Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                         , TYPE=COMPOSITE, BENEFIT=Getting
Needed Care);
******************
* Create CONUS for Health Care - Quarterly
*************************
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         . TYPE=COMPOSITE.BENEFIT=Health
Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Health
Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                          , TYPE=COMPOSITE, BENEFIT=Health
Care);
                                                          , TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                         , TYPE=COMPOSITE, BENEFIT=Health
Care);
******************
* Create CONUS for Health Plan - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         , TYPE=COMPOSITE, BENEFIT=Health
Plan); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE,BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Health
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=Health
Plan);
```

```
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=Health
Plan);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                         , TYPE=COMPOSITE, BENEFIT=Health
Plan);
**************************
* Create CONUS for How Well Doctors Communicate - Quarterly
*************************
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
                                                         , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=How Well
Doctors Communicate);
                                                         , TYPE=COMPOSITE, BENEFIT=How Well
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
Doctors Communicate);
* Create CONUS for Primary Care Manager - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
                                                         , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents
                                                        , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM, TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM, TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
                                                         , TYPE=COMPOSITE, BENEFIT=Primary
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
                                                         , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
                                                         , TYPE=COMPOSITE, BENEFIT=Primary
Care Manager);
******************
* Create CONUS for Specialty Care - Quarterly
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty
TYPE=COMPOSITE, BENEFIT=Specialty Care); ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to
BENTYPE="Composite";
%PROCESS(BENTYPE="Composite", MAJGRP=Active Duty Dependents
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Civilian PCM,
TYPE=COMPOSITE,BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Enrollees with Military PCM,
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Non-enrolled Beneficiaries ,
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Prime Enrollees
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=Retirees and Dependents
TYPE=COMPOSITE, BENEFIT=Specialty Care);
%PROCESS(BENTYPE="Composite", MAJGRP=All Beneficiaries
TYPE=COMPOSITE, BENEFIT=Specialty Care);
*******************
* Extract ORDER and KEY from the WEB Layout file. TEMPQ will be used
^{\star} as place holders for missing records. FAKEQ will be used for adding
* new records.
                ****************
DATA FAKEQ;
  SET IN1.FAKEQ;
```

```
length key $200;
  SIG = .;
  SCORE = .;
  ORDER = N ;
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
       UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/08/03 Added TIMEPD;
RIIN;
PROC SORT DATA=FAKEQ OUT=TEMPQ;
                              BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;
************************
* Append BENCHMARK records to CAHPS records and perform significance tests
***********
DATA BENCHMRK(KEEP=MAJGRP BENEFIT BENTYPE SEMEAN SCORE);
  SET IN1.&DSN;
  WHERE SUBSTR(REGION, 1,5) = "Bench" AND SVMPRO = 0;
RUN;
Data abnchmrk(keep=benefit bentype ascore);
set benchmrk;
where upcase(majgrp)='ALL BENEFICIARIES';
rename score=ascore;
run;
proc sort; by benefit bentype;
proc sort data=benchmrk; by benefit bentype;
data benchmrk;
merge benchmrk abnchmrk; by benefit bentype;run;
PROC SORT DATA=BENCHMRK; BY MAJGRP BENEFIT BENTYPE; RUN;
PROC SORT DATA=FINAL; BY KEY; RUN;
DATA CONUS_Q;
  MERGE FINAL(IN=IN1) FAKEQ(IN=IN2);
  BY KEY;
  IF IN1;
RIIN;
PROC SORT DATA=CONUS_Q; BY MAJGRP BENEFIT BENTYPE; RUN;
*******************
* Perform significance tests for CONUS scores
DATA SIGTEST1;
  MERGE CONUS_Q(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  length key $200;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP), N_OBS-1)); /** RSG 06/22/2004 - PUT CONDITION TO
AVOID DF=0 WHICH CAUSES ERROR FOR PROBT FUNCTION **/
  ELSE TEST = .; /** RSG 06/22/2004 - ADDED FOR CASES WITH N OBS = 1 OR LESS SINCE PROBT CAN'T
BE PERFORMED AND WOULD RESULT IN TEST = MISSING ANYWAY **/
  SIG = 0;
  IF TEST < 0.05 AND TEST NE . THEN SIG = 1; /** RSG 06/22/2004 - ADDED CONDITION "TEST NE ." IN
CASE MISSING IS CONSIDERED LESS THAN 0.05 **/
  IF SCORE < BSCORE THEN SIG = -SIG;
  SOURCE = "USA_Q";
  FLAG = "USA_Q";
  IF SIN;
  score=score+ascore-bscore;
RUN;
PROC SORT DATA=SIGTEST1; BY KEY; RUN;
*************************
* Extract CAHPS scores to perform significance tests
******************************
DATA CAHPS MPR bench;
  SET IN1.&DSN;
  ******************
```

```
* Significance tests have already been performed for MPR scores,
  * so remove from file.
  *************************
  IF SVMPRO = 1 THEN OUTPUT MPR;
  IF SVMPRQ = 0 THEN do;
   if majgrp ne 'Benchmark' then OUTPUT CAHPS;
   else output bench; end;
RUN;
PROC SORT DATA=CAHPS;
  BY MAJGRP BENEFIT BENTYPE;
*******************
* Perform significance tests for CAHPS scores
*************************
DATA SIGTEST2;
  MERGE CAHPS(IN=SIN) BENCHMRK(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
  BY MAJGRP BENEFIT BENTYPE;
  TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
  IF N_OBS > 1 THEN TEST = 2*(1-PROBT(ABS(TEMP), N_OBS-1)); /** RSG 06/22/2004 PUT N_OBS > 1
CONDITION TO AVOID ERRORS BECAUSE PROBT CAN NOT HANDLE DF=0 **/
  ELSE TEST = .;
  SIG = 0;
  IF N_OBS >= 30 AND TEST < 0.05 THEN SIG = 1;
  IF SCORE < BSCORE THEN SIG = -SIG;
  IF SIN;
  score=score+ascore-bscore;
  RUN;
proc sort data=bench; by majgrp benefit bentype;
data sigtest2;
set sigtest2 bench; by majgrp benefit bentype;
PROC SORT DATA=SIGTEST2; BY KEY; RUN;
************************
* When NOT 1st quarter: Get records from previous quarters
***********************
%MACRO LASTOTR;
  ************************
  * Input composite records from previous quarters.
  ************************
  LIBNAME IN2 "&LSTCONUS";
  DATA LASTQTR (drop=key2); /*RSG 10/2005 - KEY2 WAS CREATED AT END OF PROG TO HELP
                          SET TREND TO MISSING FOR SCORES MISSING IN ANY QUARTERS
                          THIS SHOULD BE DROPPED AND RESET AT THE END OF PROG*/
     SET IN2.CONUS_Q (DROP=KEY);
/*** Change BENEFIT "Heathly Behavior" to Healthy "Behaviors" JSO 02/16/2007 ***/
     IF BENEFIT = 'Healthy Behavior' THEN BENEFIT = 'Healthy Behaviors';
/*** Change SOURCE and FLAG from "CONUS_Q" to "USA_Q" MER 01/29/2009 ***/
/*** Change REGION and REGCAT from "CONUS MHS to USA MHS" MER 01/29/2009 ***/
     IF SOURCE = 'CONUS_Q' THEN SOURCE = 'USA_Q';
     IF FLAG = 'CONUS_Q' THEN FLAG = 'USA_Q';
     IF REGION = 'CONUS MHS' THEN REGION = 'USA MHS';
     IF REGCAT = 'CONUS MHS' THEN REGCAT = 'USA MHS';
     IF timepd IN ("&PERIOD1", "&PERIOD2", "&PERIOD3") AND
       (REGION = REGCAT) AND
       BENEFIT IN ("Getting Needed Care",
                  "Getting Care Quickly",
                  "How Well Doctors Communicate",
                  "Customer Service",
                  "Claims Processing",
                  "Health Care",
                  "Health Plan",
                  "Primary Care Manager",
                  "Specialty Care",
                  "Preventive Care"
                  "Healthy Behaviors") & TIMEPD NE "Trend";
```

```
RUN;
%MEND LASTOTR;
%LASTQTR;
PROC SORT DATA=LASTQTR(DROP=ORDER); BY KEY; RUN;
DATA LASTQTR;
  MERGE TEMPQ(IN=IN1) LASTQTR(IN=IN2);
  BY KEY;
  IF IN1 AND IN2;
RUN;
PROC SORT DATA=MPR; BY KEY; RUN;
*******************
* Combine previously created records with the new file
*************************
DATA COMBINE OUT.LT30Q;
  SET SIGTEST1 SIGTEST2 LASTQTR MPR;
  BY KEY;
                                      ***MJS 07/08/03 Changed from bentype="&period1";
  if timepd="&period1" then period=1;
  if timepd="&period2" then period=2; ***MJS 07/08/03 Changed from bentype="&period2"; if timepd="&period3" then period=3; ***MJS 07/08/03 Changed from bentype="&period3"; if timepd="&period4" then period=4; ***MJS 07/08/03 Changed from bentype="&period4";
  *****************
  * Remove N_OBS < 30 OR N_WGT < 200
                                   *****************************
  IF (N_OBS < 30 OR N_WGT < 200) AND (MAJGRP NE "Benchmark") AND
     (REGION NE "Benchmark")
     THEN OUTPUT OUT.LT30Q;
  ELSE OUTPUT COMBINE;
RIIN;
data trend;
set combine;
where period ne . ;
if period<4|benefit="Preventive Care" then score=score/100;
proc sort data=trend;
by majgrp region regcat benefit bentype period;
run;
data avg(keep=majgrp region regcat benefit t_obs a_period a_score twgt bentype) ;
set trend; by majgrp region regcat benefit bentype period;
if majgrp="Benchmark" | region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentype then do;
t_obs=0;
t score=0;
twgt=0;
t_period=0;
end;
t obs+n obs;
t_Score+n_wgt*score;
twgt+n_wgt;
t_period+period*n_wgt;
if last.majgrp|last.region|last.regcat|last.benefit|last.bentype then do;
   if twgt notin (.,0) then do;
      a_score=t_score/twgt;
      a_period=t_period/twgt;
   end;
   else do;
      a_score=.;
      a_period=.;
   end;
   output;
end;
RIIN;
```

```
data trend2(drop=score) btrend(keep=majgrp benefit bentype trend serr);
merge trend avg; by majgrp region regcat benefit bentype;
if majgrp="Benchmark" | region="Benchmark" then n_wgt=1;
if first.majgrp|first.region|first.regcat|first.benefit|first.bentype then do;
t_score=0;
t_se=0;
t_period=0;
end;
t_se+((n_wgt**2)*(semean**2));
t_score+n_wgt*(score-a_score)*(period-a_period);
t_period+n_wgt*(period-a_period)**2;
if last.majgrp|last.region|last.regcat|last.benefit|last.bentype then do;
if t_period ne 0 then do;
                           /* RSG 06/22/2004 Added to avoid division by zero*/
  trend=t_score/t_period;
  serr=sqrt(t_se/(t_period*twgt));
end;
else do;
  trend=.;
  serr=.;
end;
if region="Benchmark" | majgrp="Benchmark" then output btrend;
end;
proc sort data=trend2; by majgrp benefit bentype;RUN;
proc sort data=btrend; by majgrp benefit bentype;
data trend3(rename=(trend=score));
merge trend2 btrend(rename=(trend=btrend serr=bserr));
by majgrp benefit bentype;
  length key $200;
if `(region="Benchmark" | majgrp="Benchmark") then do;
ttrend=trend-btrend;
serr=sqrt((serr**2)+(bserr**2));
sig=0;
if serr > 0 and t_obs notin (.,0) then test= 2*(1-probt(abs(ttrend/serr),t_obs)); /* RSG
06/22/2004 Added to avoid division by zero*/
else test = .;
if test<.05 & test ne . then sig=1;
if sig=1 & ttrend<0 then sig=-1;
end;
timepd="Trend";
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) |
        UPCASE(TRIM(MAJGRP))
                               UPCASE(TRIM(REGCAT))
        ***MJS 07/08/03 Added TIMEPD;
run;
proc sort data=trend3(drop=t_obs twgt a_score a_period t_score t_se t_period serr
bserr btrend ttrend order); by key;
data trend4 ;
merge trend3(in=din) fakeq(in=cin); by key;
if din;
RUN;
data combine2;
set combine trend4; RUN;
proc sort; by key;
data combine3 dupe;
set combine2; by key;
if ^(first.key & last.key) then output dupe;
output combine3;
proc print data=dupe;run;
/* RSG 06/2005 - set trend to missing for component/composite
  scores with missing scores in any of the quarter*/
data misses (keep=key2) all;
set combine3;
length key2 $200.;
KEY2 = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
           UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | |
           UPCASE(TRIM(REGION));
if score = . then output misses;
output all;
```

```
run;
proc sort data=misses;
by key2;
proc sort data=all;
by key2;
run;
data combine4;
merge all (in=a) misses (in=b);
by key2;
if a and b then do;
 if timepd = "Trend" then score = .;
end;
run;
********************
* Create place holders for missing records
DATA FAKEONLY;
  MERGE COMBINE4(IN=IN1) TEMPQ(IN=IN2);
  BY KEY;
  SOURCE = "FAKE ONLY";
  FLAG = "FAKE ONLY";
  IF IN2 AND NOT IN1;
RUN;
*************************
* Combine all of the missing records with the existing records to generate
* the complete WEB layout file.
*******************************
DATA CONUS O;
  SET FAKEONLY COMBINE4;
  * Convert CAHPS Composites and Individual to 1-100 scale
  IF timepd="Trend" OR (timepd="&PERIOD4" & benefit ne "Preventive Care")
     t.hen
      SCORE = SCORE*100;
RUN;
PROC SORT DATA=CONUS_Q; BY ORDER; RUN;
DATA FAKEQ;
  SET IN1.FAKEQ;
  SIG = .;
  SCORE = .;
  ORDER = _N_;
  KEY = UPCASE(TRIM(BENEFIT)) | UPCASE(TRIM(BENTYPE)) | |
        UPCASE(TRIM(MAJGRP)) | UPCASE(TRIM(REGCAT)) | UPCASE(TRIM(REGION)) | UPCASE(TRIM(TIMEPD)); ***MJS 07/31/03 Added TIMEPD;
RUN;
PROC SORT DATA=FAKEQ OUT=TEMPQ;
                                  BY KEY; RUN;
PROC SORT DATA=FAKEQ(KEEP=ORDER KEY); BY KEY; RUN;
PROC SORT DATA=CONUS_Q out=OUT.CONUS_Q;
BY KEY;
RIIN;
DATA FAKEONLY;
  MERGE OUT.CONUS_Q(IN=IN1) TEMPQ(IN=IN2);
  BY KEY;
  SOURCE = "FAKE ONLY";
  FLAG = "FAKE ONLY";
  IF IN2 AND NOT IN1;
RUN;
DATA TOTAL_Q;
  SET FAKEONLY OUT.CONUS_Q;
  BY KEY;
  IF MAJGRP="All Beneficiaries" then MAJGRP="All Users";
```

```
IF MAJGRP="Non-enrolled Beneficiaries" then MAJGRP="Standard/Extra Users";
   IF BENEFIT="Primary Care Manager" THEN BENEFIT="Personal Doctor"; /*MJS 02/05/2003*/
   ^{\prime\star} 11/14/2005 RSG - ADDED IN THESE CODE TO CAPITALIZE ALL WORDS IN TITLE ^{\star\prime}
   /*IF BENTYPE = "Problems Getting Referral to Specialist
     THEN BENTYPE = "Problems Getting Referral To Specialist
   IF BENTYPE = "Delays in Care while Awaiting Approval
     THEN BENTYPE = "Delays In Care While Awaiting Approval
   IF BENTYPE = "Advice over Telephone
                                                                ";
     THEN BENTYPE = "Advice Over Telephone
   IF BENTYPE = "Wait for Routine Visit
     THEN BENTYPE = "Wait For Routine Visit
   IF BENTYPE = "Wait for Urgent Care
      THEN BENTYPE = "Wait For Urgent Care
   IF BENTYPE = "Wait More than 15 Minutes Past Appointment
     THEN BENTYPE = "Wait More Than 15 Minutes Past Appointment";
   IF BENTYPE = "Explains so You can Understand
      THEN BENTYPE = "Explains So You Can Understand
   IF BENTYPE = "Spends Time with You
                                                                ıı ;
     THEN BENTYPE = "Spends Time With You
   IF BENTYPE = "Courteous and Respectful
     THEN BENTYPE = "Courteous And Respectful
   IF BENTYPE = "Problem Getting Help from Customer Service
     THEN BENTYPE = "Problem Getting Help From Customer Service";
   IF BENTYPE = "Problem with Paperwork
     THEN BENTYPE = "Problem With Paperwork
                                                                " ;
   IF BENTYPE = "Claims Handled in a Reasonable Time
     THEN BENTYPE = "Claims Handled In A Reasonable Time
                                                               ";*/
   IF substr(region,1,5) in ('Latin', 'Europ', 'Pacif') Region='Overseas Latin America'
   then delete;
   IF REGION IN ("South Joint Service", "West Joint Service", "Europe Joint Service",
                 "Pacific Joint Service", "Latin America Joint Service") THEN DELETE;
RUN;
PROC SORT DATA=TOTAL_Q OUT=OUT.TOTAL_Q; BY ORDER; RUN;
TITLE1 "Quarterly DOD Health Survey Scores/Report Cards (6401-904)";
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINQ.sas7bdat - Scores Database in WEB Layout";
TITLE4 "Program Outputs: TOTAL_Q.sas7bdat - USA Scores Database in WEB layout";
PROC FREO;
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD /*MJS 07/08/03 Added
TIMEDD*/
      REGION*REGCAT
     /MISSING LIST;
RIIN;
```

APPENDIX J

SAS CODE FOR 2012 TRICARE PURCHASED CARE CONSUMER WATCH - QUARTERS I-III AND COMBINED ANNUAL

PAGE IS INTENTIONALLY LEFT BLANK TO ALLOW FOR DOUBLE-SIDED COPYING

J.1.A Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_PurchasedCare.sas - Run Purchased Care TRICARE Consumer Watch reports - Run Quarterly.

```
* PROJECT: 6077-420
* PROGRAM: CONSUMERWATCH PurchasedCare.SAS
* PURPOSE: CALL CONSUMERWATCH MACRO PROGRAM
          TO PRODUCE EXCEL TABLE FOR PURCHASED CARE REPORT.
* WRITTEN: 02/10/2005 BY LUCY LU FOR Q4 2004.
* UPDATE: 4/26/2005 FOR Q1 2005.
* UPDATE: 8/4/2005 FOR Q2 2005.
* UPDATE: 12/15/2005 FOR Q4 2005.
* UPDATE: 04/04/2006 FOR Q2 FISCAL YEAR 2006, LUCY Lu. STARTING THIS QUARTER,
          THE PERIOD IS CHANGED TO FISCAL YEAR.
* UPDATE: 09/01/2006 Lucy Lu FOR FY 3 2006.
 UPDATE: 10/05/2006 Lucy Lu FOR FY 4 2006.
 MODIFIED 7/30/2007 BY LUCY LU
          UNIFY THE PERDIOD MACRO VARIABLES WITH BENEFICIARY REPORT CARDS PROGRAMS
           CURRNT ===> PERIOD4
           CURRNTQ ===> PERIOD4Q
           PREV1 ===> PERIOD3
           PREV1Q ===> PERIOD3Q
           PREV2
                  ===> PERIOD2
           PREV2Q ===> PERION2Q
                  ===> PERIOD1
          PREV3
          PREV3Q ===> PERIOND1Q
* MODIFIED 8/29/2007 BY LUCY LU TO RUN CONSUMERWATCH_MACRO_COMB.INC
           STARTING Q4 2007 CONSUMERWATCH_R(REGION) AND CONSUMERWATCH_CONUS RUN A SINGLE
          MACRO TO PRODUCE CHARTS FOR BOTH PRIME ENROLLEES AND CIVILIAN PCM POPULATION
* MODIFIED 5/14/09 BY LUCY LU
          1.MACRO INCLUDE PROGRAM IS MODIFIED BY REMOVING THE VALUE OF
             'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
           2. THE EXCEL AND WORD TEMPLATES ARE MODIFIED TO REMOVE THE CHARTS
                 'Courteous and Helpful Office Staff'.
            FOR
 MODIFIED 7/23/2010 LUCY
          Rename CONSUMERWATCH_MACRO_COMB.INC to
                 CONSUMERWATCH_PurchasedCare_MACRO.INC
          MODIFY MACRO VARIABLES TO REFLECT THE CHANGE OF INCLUDE MACRO
           PROGRAM. SEE consumerwatch_PurchasedCare_macro.inc FOR DETAILS.
           1.CONSOLIDATE USMHS AND REGION PROGRAMS INTO ONE SAS PROGRAM.
           2.REPLACE PERIOD MACRO VARIABLES WITH CURRENTQ AND CURRENTY.
* INPUT : DATA FROM CONSUMER REPORTS: ..\..\PROGRAMS\&DAT.LOADWEB\TOTAL_Q.SD2
 OUTPUT : INTO EXCEL SPREADSHEET
* PROGRAM TO CALL: CONSUMERWATCH_PURCHASEDCARE_MACRO.INC
/* LIBNAME IS EMBEDDED IN MACRO PROGRAM */
*starting 2006, the period is changed to fiscal year, LLU 4/5/06;
%LET CURRENTQ=3;
                       *CURRENT FISCAL QUARTER;
%LET CURRENTY=2013;
                    *CURRENT FISCAL YEAR;
**LET PATH = L:\Q4FY2010\Programs\PurchasedConsumerWatch; *TEMP;
%LET PATH = L:\Q&CURRENTQ.FY&CURRENTY.\Programs\PurchasedConsumerWatch;
TITLE "DOD PURCASED CARE CONSUMER WATCH Q&CURRENTQ, FY &CURRENTY";
%INCLUDE "CONSUMERWATCH_PURCHASEDCARE_MACRO.INC";
%RUNCW(AREA=USA MHS, FOLDER=USMHS);
%RUNCW(FOLDER=NORTH);
%RUNCW(FOLDER=SOUTH);
```

%RUNCW(FOLDER=WEST); */

J.1.B Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_PurchasedCare_macro.inc - produce numbers for Purchased Care TRICARE Consumer Watch reports.

```
********************
* PROJECT: 6077-420
* PROGRAM: consumerwatch_PurchasedCare_macro.inc
* PURPOSE: To produce numbers that go into data sheet in Excel to produce graphs
          for regional consumer watch
* AUTHOR : MIKI SATAKE
* DATE : 4/24/01
* UPDATED: 7/16/01 FOR QUARTER 2 BY NATALIE JUSTH
* UPDATED: 10/16/01 FOR QUARTER 3 BY NATALIE JUSTH
* UPDATED: 1/11/02 FOR QUARTER 4 BY NATALIE JUSTH
* UPDATED AND RENAMED: 4/9/02 FOR QUARTER 1 2002 BY NATALIE JUSTH
 UPDATED: 7/5/02 FOR QUARTER 2 2002 BY NATALIE JUSTH
* UPDATED: 7/15/02 FOR QUARTER 3 2002 BY NATALIE JUSTH
* UPDATED: 11/12/02 FOR QUARTER 4 2002 BY NATALIE JUSTH
* UPDATED: 4/3/03 FOR QUARTER 1 2003 BY NATALIE JUSTH
* UPDATED: 5/19/03 FOR QUARTER 2 2003 BY NATALIE JUSTH
* UPDATED: 8/28/03 FOR QUARTER 3 2003 BY NATALIE JUSTH
* UPDATED: 11/14/03 FOR QUARTER 4 2003 BY NATALIE JUSTH
 UPDATED: 05/18/2004 FOR QUARTER 1 2004 BY KEITH RATHBUN
* UPDATED: 06/30/2004 FOR QUARTER 2 2004 BY LUCY LU
 UPDATED: 06/30/2004 FOR QUARTER 3 2004 BY LUCY LU. CHANGING XREGION TO XTNEXREG.
 UPDATED: 10/07/2004 BY LUCY LU. ADD THE CODE TO COMPARE CONSUMER WATCH
          WITH REPORT CARDS IN SCORES AND SIGNIFICANCE.*
* MODIFIED 2/10/05 BY LUCY LU:
          1). CREATE UNIVERSAL MACRO PROGRAM BASED ON PROGRAM CONSUMERWATCH-R.SAS
              TO ELIMINATE REDUNDANCY AND INCREASE THE EFFECTIVENESS OF PROGRAMMING.
          2). ADD ADDITIONAL PREVENTION MEASURE "SMOKING CESSATION"
              INTO PREVENTIVE CARE TABLE.
* MODIFIED 06/2/2005 BY LUCY LU FOR Q1 2005:
          1). REMOVE CHOLESTEROL MEASUREMENT AND ADD BMI MEASUREMENT
          2). COMMENT OUT DISENROLL CODE--NO DISENROLL DATA IN Q1 2005
          3). ADD SPECIALIST RATING.
 MODIFIED 11/16/2006 BY LUCY LU FOR FY Q4 2006
           ADD PURCHASE CARE VERSION -- CHANGE PRIME ENROLLEE TO
           Enrollees with Civilian PCM.
 MODIFIED 6/4/2007 BY LUCY LU. UNIFY THE MACRO PROGRAMS FOR CONSUMER WATCH.
          !! NEED TO DEFIND MACRO VARIABLE &POP IN SAS PROGRAMS:
          DIRECT CARE CONSUMDER WATCH: &POP=='Prime Enrollees'
          PURCHASE CARE CONSUMDER WATCH: &POP=='Enrollees with Civilian PCM'
 MODIFIED 8/30/2007 BY LUCY LU
          1). COMBINE CONSUMERWATCH-MACRO.INC and CONSUMERWATCH-MACRO_PURCHASE.INC
              PRODUCE CHARTS CONTAINING BOTH DIRECT CARE AND PURCAHSE CARE DATA
          2). CREATE DUMMY ID FOR MERGE. SAS 9 doesn't allow merge without by variable
 MODIFIED 9/4/2007 BY LUCY LU. START Q4 2007,
          DIRECT CARE CONSUMER WATCH &POP='Enrollees with Military PCM'
 MODIFIED 5/14/09 BY LUCY LU
          1.MACRO INCLUDE PROGRAM IS MODIFIED BY REMOVING VALUE OF
             'Courteous and Helpful Office Staff'. THE PROGRAM WILL DELETE
            RELATED CODE.
          2.THE EXCEL AND WORD TEMPLATES ARE MODIFIED TO REMOVE THE CHARTS
                 'Courteous and Helpful Office Staff'.
 MODIFIED 7/23/2010 BY LUCY LU
          1. AUTOMATE PERIOD (QAURTER/YEAR) TO MINIMIZE POSSIBLE ERROR
          2. ADD MACRO TO MINIMIZE EXCEL WAITING, REDUCE PROGRAM
             RUNNING TIME
* INPUT : DATA FROM CONSUMER REPORTS: .....\PROGRAMS\&DAT.LOADWEB\TOTAL_Q.SD2
* OUTPUT : INTO EXCEL SPREADSHEET
       *********************
OPTIONS PS=60 LS=120 ERRORS=2 NOCENTER NOFMTERR NOXWAIT SPOOL MPRINT;
*LLU 7/23/2010--AUTOMATING PERIOD, MINIMIZE POSSIBLE ERROR;
DATA M1;
```

```
*Set the first month of each quarter with order of running quarter 1 in FY;
DO MONTH='October', 'July', 'April', 'January';
  OUTPUT;
END;
RUN;
DATA _NULL_;
  SET M1;
INDEX= N ;
IF &CURRENTQ =1 THEN DO;
   ORDER=INDEX; YR= &CURRENTY -1;
END;
IF &CURRENTQ = 2 THEN DO;
  IF INDEX = 4 THEN DO; ORDER=1; YR=&CURRENTY; END; ELSE
   IF INDEX < 4 THEN DO; ORDER = INDEX+1; YR=&CURRENTY-1; END;</pre>
IF &CURRENTQ = 3 THEN DO;
   IF INDEX >=3 THEN DO; ORDER=INDEX-2; YR=&CURRENTY; END; ELSE
   IF INDEX < 3 THEN DO; ORDER=INDEX+2; YR=&CURRENTY-1; END;</pre>
IF \&CURRENTQ = 4 THEN DO;
   IF INDEX IN (2,3,4) THEN DO; ORDER=INDEX-1; YR=&CURRENTY; END; ELSE
   IF INDEX =1 THEN DO; ORDER=4; YR=&CURRENTY-1; END;
END;
LENGTH PERIOD $15;
PERIOD=TRIM(LEFT(MONTH))||','||' '||(PUT(YR,4.));
IF ORDER=1 THEN CALL SYMPUT('PERIOD4', TRIM(LEFT(PERIOD)));
            THEN CALL SYMPUT('PERIOD3', TRIM(LEFT(PERIOD)));
IF ORDER=3 THEN CALL SYMPUT('PERIOD2', TRIM(LEFT(PERIOD)));
IF ORDER=4 THEN CALL SYMPUT('PERIOD1', TRIM(LEFT(PERIOD)));
RIIN;
%PUT PERIOD4 = &PERIOD4(current quarter);
%PUT PERIOD3 = &PERIOD3;
%PUT PERIOD2 = &PERIOD2;
%PUT PERIOD1 = &PERIOD1;
%MACRO RUNCW (AREA=&FOLDER, /* Region/Service/conus
              FOLDER=,
                         /* Folder containing excel template
                                                                             * /
              CURRENT=CURNTR.TOTAL_Q /* Libname and dataset for the current quarter */
*LLU 7/21/2010--DETECTING AVAILABILITY OF EXCEL, MINIMIZE WAITING TIME;
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
   LENGTH FID RC START STOP TIME 8;
   FID = FOPEN('CMDS' , 'S');
   IF (FID LE 0) THEN DO;
      RC = SYSTEM('START EXCEL');
      START = DATETIME();
      STOP = START + 10;
      DO WHILE (FID LE 0);
        FID = FOPEN('CMDS' , 'S');
         TIME = DATETIME();
         IF (TIME GE STOP) THEN FID = 1;
      END;
   END;
   RC = FCLOSE(FID);
RUN;
%MACRO SETUP;
   DATA _NULL_;
   SINGLE="'";
   DOUBLE='"';
```

```
LENGTH OPENXLS SAVEXLS $120;
  OPENXLS=SINGLE | | "[OPEN(" | | DOUBLE | | "&PATH.\Template_PurchasedCare.xlsb" | DOUBLE | | ")]" | | SINGLE;
SAVEXLS=SINGLE | | "[SAVE.AS(" | DOUBLE | | "&PATH.\&FOLDER._PurchasedCare.XLSB" | DOUBLE | | ")]" |
SINGLE;
  CALL SYMPUT ("OPENXLS", TRIM(OPENXLS));
  CALL SYMPUT ("SAVEXLS", TRIM(SAVEXLS));
RUN;
%MEND SETUP;
%SETUP;
DATA _NULL_;
  FILE CMDS;
  PUT &OPENXLS;
  X=SLEEP(2);
  PUT '[ERROR(FALSE)]';
  PUT &SAVEXLS;
  PUT '[app.minimize()]';
RUN;
%MACRO RUNPOP(MAJPOP=, POP=,DAT=);
TITLE2 "&AREA.";
LIBNAME CURNTR "..\&DAT.Loadweb";
*LIBNAME CURNTR "L:\Q3FY2010\Programs\\&DAT.Loadweb"; *--TEMP;
^{\prime\prime} This macro pulls data from the specified dataset to be used in the Consumer Watch ^{\star\prime}
MACRO\ GETDATA\ (MAJGRP=, /* Prime\ enrollee\ or\ civilian\ PCM\ */
                            /* Value of variable REGION */
                REGION=,
                           /* Value of variable REGCAT */
                REGCAT=,
                           /* Value of variable BENEFIT */
                BENEFIT=,
                TIMEPD=,
                            /* Value of variable TIMEPD */
                OUTDATA=, /* Name of output data set */
                FIGURE=
                            /* Figure number in consumer watch reports */
                );
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = &MAJPOP
    AND REGION IN &REGION
     AND REGCAT IN &REGCAT
     AND BENEFIT IN &BENEFIT
     AND BENTYPE = 'Composite'
     AND TIMEPD = &TIMEPD;
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SCORE*N_OBS*N_WGT*SIG/OUT=&OUTDATA (DROP=COUNT
PERCENT);
RUN;
%MEND GETDATA;
%MACRO NEWSCORE (FIGURE=);
/* This macro re-calculates SCORE based on the quarterly benchmark */
%DO QUARTER=1 %TO 4;
DATA FIG&FIGURE&QUARTER FIG&FIGURE.B&QUARTER(KEEP=SCORE N);
  SET FIG&FIGURE.P&QUARTER;
  N=1;
                                 * DUMMY ID FOR NEXT MERGE STEP;
  IF REGION='Benchmark' THEN OUTPUT FIG&FIGURE.B&OUARTER;
     ELSE OUTPUT FIG&FIGURE&QUARTER;
RUN;
/*ADD CODE HERE TO PRESERVE ABOVE DATASET FOR LATER COMPARISON. LLU 10/7/04*/
DATA CFIG&FIGURE&QUARTER;
  SET FIG&FIGURE&QUARTER;
```

```
KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
RUN;
DATA FIG&FIGURE.P&QUARTER(DROP=RSCORE);
  MERGE FIG&FIGURE.B&QUARTER(RENAME=(SCORE=RSCORE))
        FIG&FIGURE&OUARTER;
* SCORE=SCORE-RSCORE;
RUN;
%END;
%MEND NEWSCORE;
%MACRO COMBDATA(FIGURE=);
DATA &POP.FIG&FIGURE(DROP=BSCORE);
  SET BENCH FIG&FIGURE.P1 FIG&FIGURE.P4 FIG&FIGURE.P3 FIG&FIGURE.P2;
  RETAIN BSCORE;
  IF REGION = 'Benchmark' THEN DO;
     ROW = 3;
     BSCORE=SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD1" THEN DO;
    ROW = 4;
      SCORE=SCORE+BSCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD2" THEN DO;
     ROW = 5;
      SCORE=SCORE+BSCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD3" THEN DO;
     ROW = 6;
   * SCORE=SCORE+BSCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE=.;
  END;
  ELSE IF TIMEPD = "&PERIOD4" THEN DO;
    ROW=7;
      SCORE=SCORE+BSCORE;
  END;
  &POP.SCORE = SCORE;; *3/4/08 LLu, increase the score by 100 to align with fig. 5-10;
  &POP.SIG = SIG;
RUN;
PROC SORT;
  BY ROW;
RUN;
%MEND COMBDATA;
*******************
* FIGURE 1: Health Care Rating
*************************
TITLE2 'Figure 1: Health Care Rating';
%GETDATA (MAJGRP=&MAJPOP,
         REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('Health Care'),
         TIMEPD="&PERIOD4",
         OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('Health Care'),
         TIMEPD="&PERIOD4",
         OUTDATA=FIG1P4);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Health Care'),
         TIMEPD="&PERIOD3",
```

```
OUTDATA=FIG1P3);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('Health Care'),
         TIMEPD="&PERIOD2",
         OUTDATA=FIG1P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Health Care'),
         TIMEPD="&PERIOD1",
         OUTDATA=FIG1P1);
%NEWSCORE(FIGURE=1);
%COMBDATA(FIGURE=1);
************************
* FIGURE 2: Health Plan Rating
TITLE2 'Figure 2: Health Plan Rating';
%GETDATA (MAJGRP=&MAJPOP,
        REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('Health Plan'),
        TIMEPD="&PERIOD4",
        OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('Health Plan'),
         TIMEPD="&PERIOD4",
        OUTDATA=FIG2P4);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Health Plan'),
         TIMEPD="&PERIOD3",
         OUTDATA=FIG2P3);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Health Plan'),
         TIMEPD="&PERIOD2",
         OUTDATA=FIG2P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('Health Plan'),
         TIMEPD="&PERIOD1",
         OUTDATA=FIG2P1);
%NEWSCORE(FIGURE=2);
%COMBDATA(FIGURE=2);
************************
* FIGURE 3: Personal Provider Rating
********************************
TITLE2 'Figure 3: Personal Provider Rating';
%GETDATA (MAJGRP=&MAJPOP,
         REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('Personal Doctor'),
         TIMEPD="&PERIOD4",
         OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Personal Doctor'),
         TIMEPD="&PERIOD4",
```

```
OUTDATA=FIG3P4);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Personal Doctor'),
        TIMEPD="&PERIOD3",
        OUTDATA=FIG3P3);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Personal Doctor'),
        TIMEPD="&PERIOD2",
        OUTDATA=FIG3P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Personal Doctor'),
        TIMEPD="&PERIOD1",
        OUTDATA=FIG3P1);
%NEWSCORE(FIGURE=3);
%COMBDATA(FIGURE=3);
************************
* FIGURE 4: Specialist Rating--added for Q1 2005, LLu 6/2/05
TITLE2 'Figure 4: Specialist Rating';
%GETDATA (MAJGRP=&MAJPOP,
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD4",
        OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA", 'Benchmark'),
        REGCAT=("&AREA", 'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD4",
        OUTDATA=FIG4P4);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD3",
        OUTDATA=FIG4P3);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD2",
        OUTDATA=FIG4P2);
%GETDATA (MAJGRP=&MAJPOP,
        REGION=("&AREA",'Benchmark'),
        REGCAT=("&AREA",'Benchmark'),
        BENEFIT=('Specialty Care'),
        TIMEPD="&PERIOD1",
        OUTDATA=FIG4P1);
%NEWSCORE(FIGURE=4);
%COMBDATA(FIGURE=4);
*****************
* FIGURE 5 & 6: Access Composites
TITLE2 'Figure 5 & 6: Access Composites';
%GETDATA (MAJGRP=&MAJPOP,
        REGION=('Benchmark'),
        REGCAT=('Benchmark'),
        BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
        TIMEPD="&PERIOD4",
```

```
OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
          REGION=("&AREA",'Benchmark'),
          REGCAT=("&AREA",'Benchmark'),
          BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
          TIMEPD="&PERIOD4",
          OUTDATA=FIG5P4);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
          REGCAT=("&AREA",'Benchmark'),
          BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
          TIMEPD="&PERIOD3",
          OUTDATA=FIG5P3);
%GETDATA (MAJGRP=&MAJPOP,
          REGION=("&AREA",'Benchmark'),
          REGCAT=("&AREA",'Benchmark'),
          BENEFIT=('Getting Needed Care', 'Getting Care Quickly'),
          TIMEPD="&PERIOD2",
          OUTDATA=FIG5P2);
%GETDATA (MAJGRP=&MAJPOP,
          REGION=("&AREA",'Benchmark'),
          REGCAT=("&AREA",'Benchmark'),
          BENEFIT=('Getting Needed Care','Getting Care Quickly'),
          TIMEPD="&PERIOD1",
          OUTDATA=FIG5P1);
/*Use macro for figures 5-10 */
%MACRO COMPSCORE (FIGNUM=
                 );
%DO QUARTER = 1 %TO 4;
DATA FIG&FIGNUM.P&QUARTER FIGB&QUARTER(KEEP=SCORE BENEFIT SIG);
  SET FIG&FIGNUM.P&QUARTER;
  IF REGION = 'Benchmark' THEN OUTPUT FIGB&QUARTER;
     ELSE OUTPUT FIG&FIGNUM.P&QUARTER;
PROC SORT DATA=FIG&FIGNUM.P&QUARTER;
  BY BENEFIT;
RUN;
PROC SORT DATA=FIGB&QUARTER;
  BY BENEFIT;
RIIN:
/*ADD CODE HERE TO PRESERVE THE SCORES IN CONUS_Q DATASET FOR LATER COMPARISON. LLU 10/7/04*/
DATA CFIG&FIGNUM. & QUARTER;
  SET FIG&FIGNUM.P&OUARTER;
KEEP MAJGRP REGION BENEFIT BENTYPE TIMEPD SCORE SIG;
RUN;
DATA FIG&FIGNUM. &QUARTER (DROP=RSCORE);
  MERGE FIGB&QUARTER(RENAME=(SCORE=RSCORE))
        FIG&FIGNUM.P&QUARTER;
  BY BENEFIT;
* SCORE=SCORE-RSCORE;
RUN;
%END;
%MEND COMPSCORE;
%COMPSCORE (FIGNUM=5);
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
     COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
     COL4(DROP=SCORE RENAME=(SCORE1=COL4))
                                                   /*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER
COMPARISON*/
    COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
     COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
```

```
COL7(kEEP=ROW SIG RENAME=(SIG=COL7))
   SET BENCH FIG54 FIG53 FIG52 FIG51;
   BY BENEFIT;
   RETAIN BSCORE;
   IF REGION = 'Benchmark' THEN DO;
    BSCORE=SCORE;
     ROW = 18;
     SCORE1 = SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD1" THEN DO;
     ROW = 18;
      SCORE=BSCORE+SCORE;
      IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;</pre>
         ELSE SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD2" THEN DO;
     ROW = 19;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   ELSE IF TIMEPD = "&PERIOD3" THEN DO;
    ROW = 20;
      SCORE=BSCORE+SCORE;
      IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD4" THEN DO;
     ROW = 21;
      SCORE=BSCORE+SCORE;
     SCORE1 = SCORE;
   END;
   IF (BENEFIT = 'Getting Needed Care' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
   IF (BENEFIT = 'Getting Needed Care' AND REGION = 'Benchmark') THEN OUTPUT COL3;
   IF (BENEFIT = 'Getting Care Quickly' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
   IF (BENEFIT = 'Getting Care Quickly' AND REGION = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 5. LLU 10/7/04*/
DATA FIG5A;
  MERGE COL2 COL6;
  BY ROW;
RUN;
DATA FIG5B;
  MERGE COL4 COL7;
 BY ROW;
RIIN;
DATA FIG5AB;
  SET FIG5A FIG5B;
 BY ROW;
RUN;
DATA &POP.FIG5;
  MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
   BY ROW;
RUN;
```

```
DATA &POP.FIG6;
  MERGE COL4(KEEP=ROW COL4) COL5 COL7;
  BY ROW;
RUN;
******************
* FIGURE 7: Doctors Communicate
******************************
TITLE2 'Figure 7 : Doctors Communicate';
%GETDATA (MAJGRP=&MAJPOP,
         REGION=('Benchmark'),
         REGCAT=('Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         TIMEPD="&PERIOD4",
         OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         TIMEPD="&PERIOD4",
         OUTDATA=FIG7P4);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         TIMEPD="&PERIOD3",
         OUTDATA=FIG7P3);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         TIMEPD="&PERIOD2",
         OUTDATA=FIG7P2);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA", 'Benchmark'),
         BENEFIT=('How Well Doctors Communicate'),
         TIMEPD="&PERIOD1",
         OUTDATA=FIG7P1);
%COMPSCORE (FIGNUM=7);
                                               /*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER
DATA COL4(DROP=SCORE RENAME=(SCORE1=COL4))
COMPARISON*/
    COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
    COL7(kEEP=ROW SIG RENAME=(SIG=COL7))
  SET BENCH FIG74 FIG73 FIG72 FIG71;
  BY BENEFIT;
  RETAIN BSCORE;
  IF REGION = 'Benchmark' THEN DO;
     BSCORE=SCORE;
     ROW = 18;
     SCORE1 = SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD1" THEN DO;
    ROW = 18;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
  ELSE IF TIMEPD = "&PERIOD2" THEN DO;
    ROW = 19;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD3" THEN DO;
    ROW = 20;
      SCORE=BSCORE+SCORE;
```

```
IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
        ELSE SCORE1=SCORE;
  END;
  ELSE IF TIMEPD = "&PERIOD4" THEN DO;
     ROW = 21;
      SCORE=BSCORE+SCORE;
     SCORE1 = SCORE;
  END;
   IF (BENEFIT = 'How Well Doctors Communicate' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
  IF (BENEFIT = 'How Well Doctors Communicate' AND REGION = 'Benchmark') THEN OUTPUT COL5;
RIIN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 6. LLU 10/7/04*/
DATA FIG7AB;
  MERGE COL4 COL7;
 BY ROW;
RIIN;
DATA &POP.FIG7;
  MERGE COL4(KEEP=ROW COL4) COL5 COL7;
  BY ROW;
************************
* FIGURE 8 & 9: Claims/Service Composites
*************************
TITLE2 'Figure 8 & 9: Claims/Service Composites';
%GETDATA (MAJGRP=&MAJPOP,
         REGION=('Benchmark').
         REGCAT=('Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         TIMEPD="&PERIOD4",
         OUTDATA=BENCH);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA", 'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         TIMEPD="&PERIOD4",
         OUTDATA=FIG9P4);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         TIMEPD="&PERIOD3",
         OUTDATA=FIG9P3);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Customer Service', 'Claims Processing'),
         TIMEPD="&PERIOD2",
         OUTDATA=FIG9P2);
%GETDATA (MAJGRP=&MAJPOP,
         REGION=("&AREA",'Benchmark'),
         REGCAT=("&AREA",'Benchmark'),
         BENEFIT=('Customer Service','Claims Processing'),
         TIMEPD="&PERIOD1",
         OUTDATA=FIG9P1);
%COMPSCORE (FIGNUM=9);
DATA COL2(DROP=SCORE RENAME=(SCORE1=COL2))
    COL3(KEEP=ROW SCORE1 RENAME=(SCORE1=COL3))
```

```
COL4(DROP=SCORE RENAME=(SCORE1=COL4))
                                                  /*LLU 10/8/04, TO PRESERVE KEY VARS FOR LATER
COMPARISON*/
     COL5(KEEP=ROW SCORE1 RENAME=(SCORE1=COL5))
     COL6(KEEP=ROW SIG RENAME=(SIG=COL6))
     COL7(kEEP=ROW SIG RENAME=(SIG=COL7));
   SET BENCH FIG94 FIG93 FIG92 FIG91;
   BY BENEFIT;
   RETAIN BSCORE;
   IF REGION = 'Benchmark' THEN DO;
      BSCORE=SCORE;
      ROW = 18;
      SCORE1 = SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD1" THEN DO;
     ROW = 18;
      SCORE=BSCORE+SCORE;
     IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD2" THEN DO;
     ROW = 19;
      SCORE=BSCORE+SCORE;
      IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD3" THEN DO;
     ROW = 20;
      SCORE=BSCORE+SCORE;
      IF (N_OBS<30 OR N_WGT<200) THEN SCORE1=.;
         ELSE SCORE1=SCORE;
   END;
   ELSE IF TIMEPD = "&PERIOD4" THEN DO;
     ROW = 21;
     SCORE=BSCORE+SCORE;
     SCORE1 = SCORE;
   END;
   IF (BENEFIT = 'Customer Service' AND REGION NE 'Benchmark') THEN OUTPUT COL2 COL6;
   IF (BENEFIT = 'Customer Service' AND REGION = 'Benchmark') THEN OUTPUT COL3;
   IF (BENEFIT = 'Claims Processing' AND REGION NE 'Benchmark') THEN OUTPUT COL4 COL7;
   IF (BENEFIT = 'Claims Processing' AND REGION = 'Benchmark') THEN OUTPUT COL5;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
/*ADD CODE HERE TO PRESERVE NEW SCORES FOR FIGURE 7. LLU 10/7/04*/
DATA FIG9A;
  MERGE COL2 COL6;
 BY ROW;
RUN;
DATA FIG9B;
  MERGE COL4 COL7;
 BY ROW;
RIIN;
DATA FIG9AB;
  SET FIG9A FIG9B;
 BY ROW;
RUN;
DATA &POP.FIG9;
   MERGE COL2 COL3 COL4(KEEP=ROW COL4) COL5 COL6 COL7;
```

```
****************************
* TABLE 1: Preventive Care
******************************
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP IN (&MAJPOP, 'Benchmark')
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                    'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD4";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1 P4(DROP=COUNT PERCENT);
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*N_OBS/ OUT=TAB2_P4(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = &MAJPOP
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                  'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD3";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1 P3(DROP=COUNT PERCENT);
RUN;
PROC FREQ NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = &MAJPOP
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                    'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD2";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_P2(DROP=COUNT PERCENT);
RUN;
PROC FREO NOPRINT DATA=&CURRENT;
  WHERE MAJGRP = &MAJPOP
    AND REGION = "&AREA"
    AND REGCAT = "&AREA"
    AND BENEFIT IN ('Preventive Care', 'Healthy Behaviors')
    AND BENTYPE IN ('Mammography', 'Pap Smear', 'Hypertension', 'Prenatal Care',
                    'Percent Not Obese', 'Non-Smoking Rate', 'Counselled To Quit')
    AND TIMEPD = "&PERIOD1";
  TABLES MAJGRP*REGION*BENEFIT*BENTYPE*TIMEPD*SEMEAN*SCORE*SIG/ OUT=TAB1_P1(DROP=COUNT PERCENT);
RUN;
DATA TAB1P4;
  SET TAB1 P4;
  IF MAJGRP = 'Benchmark' THEN DO;
     ROW=42;
     IF BENTYPE='Mammography' THEN COL2=SCORE;
        ELSE IF BENTYPE='Pap Smear' THEN COL3=SCORE;
        ELSE IF BENTYPE='Hypertension' THEN COL4=SCORE;
        ELSE IF BENTYPE='Prenatal Care' THEN COL5=SCORE;
        ELSE IF BENTYPE='Percent Not Obese' THEN COL6=SCORE;
        ELSE IF BENTYPE = 'Non-Smoking Rate' THEN COL7=SCORE;
        ELSE IF BENTYPE = 'Counselled To Quit' THEN COL8=SCORE;
  END;
     ELSE DO;
     ROW = 40;
     IF BENTYPE='Mammography' THEN DO;
        COL2=SCORE;
        COL9=SIG;
     END;
     ELSE IF BENTYPE='Pap Smear' THEN DO;
        COL3=SCORE;
        COL10=SIG;
     END;
     ELSE IF BENTYPE='Hypertension' THEN DO;
        COL4=SCORE;
        COL11=SIG;
```

```
END;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
         COL5=SCORE;
        COL12=SIG;
      END;
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
        COL6=SCORE;
        COL13=SIG;
      END;
      ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
        COL7=SCORE;
        COL14=SIG;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
         COL8=SCORE;
        COL15=SIG;
     END;
    END;
   PROC SORT;
  BY ROW;
RIIN:
DATA TAB2P4;
  SET TAB2_P4;
  ROW=41;
  IF MAJGRP=&MAJPOP;
   IF BENTYPE='Mammography' THEN COL2=N_OBS;
      ELSE IF BENTYPE='Pap Smear' THEN COL3=N_OBS;
     ELSE IF BENTYPE='Hypertension' THEN COL4=N_OBS;
     ELSE IF BENTYPE='Prenatal Care' THEN COL5=N_OBS;
      ELSE IF BENTYPE='Percent Not Obese' THEN COL6=N_OBS;
      ELSE IF BENTYPE='Non-Smoking Rate' THEN COL7=N_OBS;
      ELSE IF BENTYPE='Counselled To Quit' THEN COL8=N_OBS;
   PROC SORT;
  BY ROW;
RUN;
DATA TAB1P3;
  SET TAB1_P3;
  ROW=39;
     IF BENTYPE='Mammography' THEN DO;
        COL2=SCORE;
        COL9=SIG;
     END;
      ELSE IF BENTYPE='Pap Smear' THEN DO;
        COL3=SCORE;
        COL10=SIG;
      END;
      ELSE IF BENTYPE='Hypertension' THEN DO;
        COL4=SCORE;
        COL11=SIG;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
        COL5=SCORE;
        COL12=SIG;
      END;
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
         COL6=SCORE;
        COL13=SIG;
      END;
      ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
        COL7=SCORE;
        COL14=SIG;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
        COL8=SCORE;
        COL15=SIG;
      END;
   PROC SORT;
  BY ROW;
RUN;
DATA TAB1P2;
  SET TAB1_P2;
  ROW=38;
     IF BENTYPE='Mammography' THEN DO;
```

```
COL2=SCORE;
         COL9=SIG;
      END;
      ELSE IF BENTYPE='Pap Smear' THEN DO;
         COL3=SCORE;
         COL10=SIG;
      END:
      ELSE IF BENTYPE='Hypertension' THEN DO;
         COL4=SCORE;
         COL11=SIG;
      END;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
         COL5=SCORE;
         COL12=SIG;
      END;
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
         COL6=SCORE;
         COL13=SIG;
      END;
  ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
         COL7=SCORE;
         COL14=SIG;
      END;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
        COL8=SCORE;
         COL15=SIG;
      END;
   PROC SORT;
   BY ROW;
RUN;
DATA TAB1P1;
   SET TAB1_P1;
   ROW=37;
      IF BENTYPE='Mammography' THEN DO;
         COL2=SCORE;
         COL9=SIG;
      END;
      ELSE IF BENTYPE='Pap Smear' THEN DO;
         COL3=SCORE;
         COL10=SIG;
      END;
      ELSE IF BENTYPE='Hypertension' THEN DO;
         COL4=SCORE;
         COL11=SIG;
      END;
      ELSE IF BENTYPE='Prenatal Care' THEN DO;
         COL5=SCORE;
         COL12=SIG;
      END;
      ELSE IF BENTYPE='Percent Not Obese' THEN DO;
         COL6=SCORE;
         COL13=SIG;
      END;
    ELSE IF BENTYPE = 'Non-Smoking Rate' THEN DO;
         COL7=SCORE;
         COL14=SIG;
      END;
      ELSE IF BENTYPE = 'Counselled To Quit' THEN DO;
        COL8=SCORE;
         COL15=SIG;
      END;
   PROC SORT;
   BY ROW;
RUN;
DATA TAB1;
   MERGE TAB1P1 TAB1P2 TAB1P3 TAB1P4 TAB2P4;
   BY ROW;
RUN;
DATA COL2(DROP=COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL3(DROP=COL2 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL4(DROP=COL2 COL3 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
```

```
COL5(DROP=COL2 COL3 COL4 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL6(DROP=COL2 COL3 COL4 COL5 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL7(DROP=COL2 COL3 COL4 COL5 COL6 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
    COL8(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL9 COL10 COL11 COL12 COL13 COL14 COL15)
     COL9(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL10 COL11 COL12 COL13 COL14 COL15)
     COL10(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL11 COL12 COL13 COL14 COL15)
    COL11(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL12 COL13 COL14 COL15)
    COL12(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL13 COL14 COL15)
  COL13(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL14 COL15)
   COL14(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL15)
   COL15(DROP=COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14);
  SET TAB1;
  IF COL2 NE . THEN OUTPUT COL2;
  IF COL3 NE . THEN OUTPUT COL3;
  IF COL4 NE . THEN OUTPUT COL4;
  IF COL5 NE . THEN OUTPUT COL5;
  IF COL6 NE . THEN OUTPUT COL6;
  IF COL7 NE . THEN OUTPUT COL7;
  IF COL8 NE . THEN OUTPUT COL8;
  IF COL9 NE . THEN OUTPUT COL9;
  IF COL10 NE . THEN OUTPUT COL10;
  IF COL11 NE . THEN OUTPUT COL11;
  IF COL12 NE . THEN OUTPUT COL12;
  IF COL13 NE . THEN OUTPUT COL13;
  IF COL14 NE . THEN OUTPUT COL14; IF COL15 NE . THEN OUTPUT COL15;
RUN;
PROC SORT DATA=COL2; BY ROW; RUN;
PROC SORT DATA=COL3; BY ROW; RUN;
PROC SORT DATA=COL4; BY ROW; RUN;
PROC SORT DATA=COL5; BY ROW; RUN;
PROC SORT DATA=COL6; BY ROW; RUN;
PROC SORT DATA=COL7; BY ROW; RUN;
PROC SORT DATA=COL8; BY ROW; RUN;
PROC SORT DATA=COL9; BY ROW; RUN;
PROC SORT DATA=COL10; BY ROW; RUN;
PROC SORT DATA=COL11; BY ROW; RUN;
PROC SORT DATA=COL12; BY ROW; RUN;
PROC SORT DATA=COL13; BY ROW; RUN;
PROC SORT DATA=COL14; BY ROW; RUN;
PROC SORT DATA=COL15; BY ROW; RUN;
DATA & POP TABLE1;
  MERGE COL2 COL3 COL4 COL5 COL6 COL7 COL8 COL9 COL10 COL11 COL12 COL13 COL14 COL15;
  BY ROW;
RIIN;
*************************
      COMPARE SCORES AND SIG B/T CONSUMER WATCH AND REPORT CARDS.
      SET 0.015 DIFFERENCE AS THRESHOLD.
      LUCY LU 10/07/2004
*****************************
                                                 *FROM CONSUMER WATCH. LLU 10/8/04;
PROC SORT DATA=&POP.FIG1(DROP=SCORE);
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=&POP.FIG2(DROP=SCORE);
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=&POP.FIG3(DROP=SCORE);
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=FIG5AB OUT=&POP.FIG5;
BY BENEFIT TIMEPD REGION;
PROC SORT DATA=FIG7AB OUT=&POP.FIG7;
BY BENEFIT TIMEPD REGION;
```

```
PROC SORT DATA=FIG9AB OUT=&POP.FIG9;
BY BENEFIT TIMEPD REGION;
RUN;
%MACRO COMPARE(I=, TITL=);
TITLE "DATA=&MAJPOP";
DATA CFIG&I;
                            *FROM CONUS. LLU 10/8/04;
 SET CFIG&I.1
     CFIG&I.2
     CFIG&I.3
     CFIG&I.4
RUN;
PROC SORT DATA=&POP.FIG&I;
BY BENEFIT TIMEPD REGION;
RUN;
PROC SORT DATA=CFIG&I;
BY BENEFIT TIMEPD REGION;
DATA COMBFIG&I;
 MERGE CFIG&I(IN=F1) &POP.FIG&I(IN=F2);
BY BENEFIT TIMEPD REGION;
IF F1 AND F2;
FIG = &I;
IF FIG <=4 THEN DO;
  SCORE2=&POP.SCORE;
  SIG2=&POP.SIG;
END;
ELSE IF FIG >4 THEN DO;
  IF COL2 >= 0 THEN SCORE2=COL2;
  ELSE IF COL4 >0 THEN SCORE2=COL4;
  IF COL6 >= .Z THEN SIG2=COL6;
  ELSE IF COL7>=.Z THEN SIG2=COL7;
END;
  SCOREDIF=SCORE2-SCORE;
  SIGDIF=SIG2-SIG;
IF ABS(SCOREDIF)>.015 OR SIGDIF>0 THEN FLAG=1;
KEEP BENEFIT TIMEPD REGION SCORE SIG SCORE2 SIG2 SCOREDIF SIGDIF FLAG;
LABEL
FLAG="DIFF IN SCORES >0.015 OR/AND DIFF IN SIG >0"
SCORE="SCORES FROM CONUS"
SCORE2="SCORES FROM CONSUMER WATCH"
SIG="SIG FROM CONUS"
SIG2="SIG FROM CONSUMER WATCH"
TITLE3 "CONSUMER WATCH, &AREA, DATA=&MAJPOP";
```

```
PROC PRINT L NOOBS;
TITLE4 "Compare &TITL.";
RUN;
%MEND COMPARE;
%COMPARE(I=1, TITL=Health Care Rating);
%COMPARE(I=2, TITL=Health Plan Rating);
%COMPARE(I=3, TITL=Personal Provider Rating);
%COMPARE(I=4, TITL=Specialist Rating);
%COMPARE(I=5, TITL=Access composites);
%COMPARE(I=7, TITL=Office composites);
%COMPARE(I=9, TITL=Claims/Service composites);
*prepare to merge data;
DATA &POP.FIG5(RENAME=(COL2=&POP.SCORE COL6=&POP.SIG))
    &POP.FIG6(RENAME=(COL4=&POP.SCORE COL7=&POP.SIG));
  SET &POP.FIG5;
  IF BENEFIT='Getting Needed Care' THEN OUTPUT &POP.FIG5;
  ELSE IF BENEFIT = 'Getting Care Quickly' THEN OUTPUT &POP.FIG6;
RUN;
DATA &POP.FIG7(RENAME=(COL4=&POP.SCORE COL7=&POP.SIG));
  SET &POP.FIG7;
  IF BENEFIT = 'How Well Doctors Communicate' THEN OUTPUT;
RIIN:
DATA &POP.FIG8(RENAME=(COL2=&POP.SCORE COL6=&POP.SIG))
    &POP.FIG9(RENAME=(COL4=&POP.SCORE COL7=&POP.SIG));
  SET &POP.FIG9;
  IF BENEFIT='Customer Service' THEN OUTPUT &POP.FIG8;
  ELSE IF BENEFIT = 'Claims Processing' THEN OUTPUT & POP.FIG9;
RUN;
%DO I= 1 %TO 9;
PROC SORT DATA=&POP.FIG&I;
BY ROW;
RUN;
%END;
%MEND RUNPOP;
%RUNPOP(MAJPOP='Enrollees with Military PCM', POP=DC,DAT=);
%RUNPOP(MAJPOP='Enrollees with Civilian PCM', POP=PC,DAT=PURCHASED);
%DO I=1 %TO 9;
DATA FIG&I;
  MERGE DCFIG&I PCFIG&I;
  BY ROW;
RUN;
%END;
DATA DCTABLE1;
 SET DCTABLE1;
 ROW=ROW-.5;
                  *CHANGE DIRECT CARES ROW NUMBER TO PREPARE NEXT STEP;
RUN;
DATA TABLE1;
  SET DCTABLE1 PCTABLE1;
  BY ROW;
RUN;
***********************
* DDE LINK: FIGURE 1-4: Health Care Rating
*************************
```

```
%MACRO RUNXLS1;
%DO I = 1 %TO 4;
FILENAME TBL DDE "EXCEL RATINGS!R17C%EVAL(&I*6-4):R21C%EVAL(&I*6)";
DATA _NULL_;
  SET FIG&I;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT DCSCORE '09'X PCSCORE '09'X DCSIG '09'X PCSIG;
RIIN;
%END;
%MEND;
%RUNXLS1;
************************
* DDE LINK: FIGURE 5-9: Composites
%MACRO RUNXLS2;
%DO I = 5 %TO 9;
FILENAME TBL DDE "EXCEL|Composites!R18C%EVAL((&I.-4)*5-3):R21C%EVAL((&I.-4)*5-1)";
DATA NULL;
  SET FIG&I;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT DCSCORE '09'X PCSCORE '09'X BSCORE;
RIIN:
FILENAME TBL DDE "EXCEL|Composites!R23C%EVAL((&I.-4)*5-3):R26C%EVAL((&I.-4)*5-1)";
DATA _NULL_;
  SET FIG&I;
  FILE TBL NOTAB LRECL=200;
  X=SLEEP(.1);
  PUT DCSIG '09'X PCSIG;
RUN;
%END;
%MEND;
%RUNXLS2;
******************
* DDE LINK: TABLE 1: Preventive Care
***************************
FILENAME TBL DDE "EXCEL TABLES!R3C11:R14C25";
DATA NULL;
  SET TABLE1;
  FILE TBL NOTAB LRECL=200;
  IF ROW <=41 THEN DO;
  PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X COL8 '09'X COL9 '09'X
COL10
      '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  ELSE IF ROW=42 THEN DO; *no benchmark for counselling;
  PUT COL2 '09'X COL3 '09'X COL4 '09'X COL5 '09'X COL6 '09'X COL7 '09'X '-' '09'X COL9 '09'X
COT.10
      '09'X COL11 '09'X COL12 '09'X COL13 '09'X COL14 '09'X COL15;
  END;
RUN;
/*Run Excel macro signif, May 9 2006, LLU*/
options noxsync;
*-- Specify XL filename ;
*%let excelf = &FOLDER..XLS ;
*-- Specify XL macro name ;
%let macron = sig2.signif2 ;
```

```
FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
FILE CMDS;
DDECommand = '[Run("' || "&macron" || '",0)]';
put DDEcommand;

RUN;

DATA _NULL_;
FILE CMDS;
PUT '[CLOSE(TRUE)]';
RUN;

/*
DATA _NULL_;
FILE CMDS;
PUT '[SAVE]';
PUT '[QUIT]';
RUN; */

%MEND RUNCW;
```

J.23

J.2.A Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_PurchasedCare_word.sas - Run program that generates MS Word Purchased Care TRICARE Consumer Watch reports - Run Ouarterly.

```
************************
* PROJECT: 6077-420
 PROGRAM: CONSUMERWATCH_PurchasedCare_Word.SAS
 PURPOSE: CALL CONSUMERWATCH_PurchasedCare_MACRO.INC PROGRAM
         TO PRODUCE WORD DOCUMENT FOR Purchased Care Consumer Watch report.
* WRITTEN: 2/21/2008 LUCY LU
* INPUT : EXCEL CHARTS
 OUTPUT : WORD DOCUMENTS
* PROGRAM TO CALL: CONSUMERWATCH_PurchasedCare_MACRO_WORD.INC
 MODIFIED: 4/14/2010 BY LUCY LU, SEE COMMENT ON INCLUDE FILE.
 MODIFIED: 7/23/2010 BY LUCY LU
           Rename CONSUMERWATCH_MACRO_COMB_WORD.INC to
                 CONSUMERWATCH_purchasedcare_MACR_WORD.INC
           CONSOLIDATE USMHS AND REGION INTO ONE SAS PROGRAM
OPTIONS MPRINT;
%LET QUARTER=3;
                                          *CURRENT FISCAL QUARTER;
%LET YEAR=2013;
                                          *CURRENT FISCAL YEAR;
%LET PATH=L:\Q&QUARTER.FY&YEAR.\Programs\PurchasedConsumerWatch;
\verb|**FET PATH=L:\Q4FY2010\Programs\PurchasedConsumerWatch; *TEMP;|\\
%INCLUDE "consumerwatch_PURCHASEDCARE_macro_word.inc";
%RUNWD(FOLDER=USMHS,NAME=US MHS,YOURSAY=US MHS);
%RUNWD(FOLDER=North, YOURSAY=your region);
%RUNWD(FOLDER=South,YOURSAY=your region);
%RUNWD(FOLDER=West, YOURSAY=your region);
```

J.2.B Q3FY2013\PROGRAMS\PurchasedConsumerWatch\consumerwatch_Purchased Care_macro_word.inc - Generate MS Word quarterly Purchased Care TRICARE Consumer Watch reports.

```
* PROJECT: 6077-420
 PROGRAM: consumerwatch_PurchasedCare_macro_word.inc
 AUTHOR : LUCY LU
 PURPOSE: Automate the copy and paste process, update the year, region,
          response rate and sample size for quarterly Consumer
          Watch report.
* DATE
       : 03/12/2009
* OUTPUT : WORD DOCUMENTS
 MODIFIED: 06/4/2010 BY LUCY LU
           NOTE: 1. Replicating the template of Q2 2010 report found the lower quality
                    of charts in Word report. Using copy and paste instead of link.
                 2. Excel Triplet doeasn't work for MS 2007/SAS 9. Using direct VBA
                    code in SAS.
                 3. The final products are in Word and pdf format.
 MODIFIED: 7/23/2010 BY LUCY LU
           ADD MACRO TO MINIMIZE EXCEL AND WORD WAITING, REDUCE PROGRAM
           RUNNING TIME
************************
OPTIONS NOXWAIT SPOOL NOXSYNC;
%MACRO RUNWD(FOLDER=,NAME=&FOLDER,YOURSAY=);
*7/23/2010 LLU, Wait until Excel ready;
FILENAME CMDS DDE "EXCEL SYSTEM";
DATA _NULL_;
  LENGTH FID RC START STOP TIME 8;
  FID = FOPEN('CMDS' , 'S');
  IF (FID LE 0) THEN DO;
     RC = SYSTEM('START EXCEL');
     START = DATETIME();
     STOP = START + 10;
     DO WHILE (FID LE 0);
        FID = FOPEN('CMDS' , 'S');
        TIME = DATETIME();
        IF (TIME GE STOP) THEN FID = 1;
     END;
  END;
  RC = FCLOSE(FID);
RUN;
%MACRO SETUP;
  DATA TEST _NULL_;
  SINGLE="'";
  DOUBLE='"';
  LENGTH OPENXLS OPENWRD SAVEWRD $120;
OPENXLS=SINGLE||"[OPEN("||DOUBLE||"&PATH.\&FOLDER.\&FOLDER._PurchasedCare.xlsb"||DOUBLE||")]"||SI
OPENWRD=SINGLE||"[FileOpen.Name="||DOUBLE||"&PATH.\template_PurchasedCare.docm"||DOUBLE||"]"||SIN
SAVEWRD=SINGLE||"[FileSaveAs.Name="||DOUBLE||"&PATH.\&FOLDER._PurchasedCare.DOCM"||DOUBLE
E||"]"||SINGLE;
```

```
CALL SYMPUT ("OPENXLS", TRIM(OPENXLS));
   CALL SYMPUT ("OPENWRD", TRIM(OPENWRD));
   CALL SYMPUT ("SAVEWRD", TRIM(SAVEWRD));
RUN;
%MEND SETUP;
%SETUP;
DATA _NULL_;
FILE CMDS;
PUT &OPENXLS;
X=SLEEP(2);
PUT '[app.minimize()]';
RUN;
*7/23/2010 LLU, Wait until Word ready;
FILENAME CMNDS DDE "WINWORD SYSTEM";
DATA _NULL_;
 LENGTH FID RC START STOP TIME 8;
  FID=FOPEN('CMNDS','S');
  IF (FID LE 0) THEN DO;
   RC=SYSTEM('START WINWORD');
    START=DATETIME();
    STOP=START+10;
    DO WHILE (FID LE 0);
      FID=FOPEN('CMNDS','S');
      TIME=DATETIME();
      IF (TIME GE STOP) THEN FID=1;
      END;
    END;
 RC=FCLOSE(FID);
RUN;
DATA _NULL_;
 FILE CMNDS;
 PUT &OPENWRD;
 X=SLEEP(2);
 PUT &SAVEWRD;
 PUT '[APPMINIMIZE]';
RUN;
%MACRO COPYIT;
%DO I=1 %TO 10;
      %LET WDMACRO=NEWPASTE&I;
      %LET EXMACRO=COPY&I;
      FILENAME CMDS DDE "EXCEL SYSTEM";
      DATA _NULL_;
      X=SLEEP(1);
      RUN;
      DATA _NULL_;
      FILE CMDS;
      DDECommand = '[Run("' | | "&exmacro" | | '",0)]';
      PUT DDEcommand ;
      FILENAME CMDS CLEAR;
      FILENAME CMNDS DDE 'WINWORD SYSTEM';
      DATA _NULL_;
      X=SLEEP(2);
      RUN;
```

```
DATA _NULL_;
      FILE CMNDS;
      put '[ToolsMacro .Name = "' "&wdmacro" '", .Run]';
%END;
%MEND COPYIT;
%COPYIT;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Region1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&NAME";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Quarter1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&QUARTER";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Year1"]';
put '[FormatFont.Font="Arial",.Points="20"]';
PUT "&YEAR";
RUN;
DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="YourSay"]';
put '[FormatFont.Font="Times New Roman",.Points="11"]';
PUT "&YOURSAY";
RUN;
DATA _NULL_;
FILE CMNDS;
X=SLEEP(.2);
put '[EditGoto.Destination="Region2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&NAME";
RUN;
DATA _NULL_;
FILE CMNDS;
*X=SLEEP(.2);
put '[EditGoto.Destination="Quarter2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&QUARTER";
RUN;
DATA _NULL_;
FILE CMNDS;
put '[EditGoto.Destination="Year2"]';
put '[FormatFont.Font="Arial",.Points="16"]';
PUT "&YEAR";
RUN;
*savs as pdf;
%LET CMACRO=SaveAspdf;
FILENAME CMNDS DDE 'WINWORD SYSTEM';
DATA _NULL_;
FILE CMNDS;
PUT '[ToolsMacro .Name = "' "&CMACRO" '", .Run]';
```

```
run;

FILENAME CMDS DDE "EXCEL|SYSTEM";

DATA _NULL_;
   FILE CMDS;
   *PUT '[SAVE]'; *no save for Excel;
   PUT '[CLOSE(FALSE)]';
   PUT '[QUIT]';

RUN;

/*reserved for future use;
FILENAME CMNDS DDE 'WINWORD|SYSTEM';

DATA _NULL_;
   FILE CMNDS;

PUT '[fileSave] ';
   PUT '[FileClose 2] ';
```

RUN;
*/
%MEND;

J.28