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2007 Health Care Survey of DoD Beneficiaries:

Child Technical Manual

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Chapter 1

Introduction

The 2007 Child 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 parents' opinions concerning their child's experience in the military health system (MHS). The Child HCSDB is closely modeled to the Consumer Assessment of Health Plans Survey (CAHPS) 3.0 survey instrument so that findings for children in the MHS can be compared to the results of CAHPS surveys of privately insured children in the private sector. The Child HCSDB is intended to answer the following questions:

- How *satisfied* are sponsors of children in the MHS with their child's health care and their health plan?
- Does *access* for children at military and civilian facilities meet TRICARE standards?
- What aspects of MHS care contribute most to beneficiary satisfaction with their child's health care experiences? With which aspects are beneficiaries least satisfied?
- What are the demographic characteristics of children in the MHS and their sponsors?
- How do children in the MHS compare with children in the private sector on issues related to satisfaction and access to care?
- What are special health care needs of MHS children?
- Are special health care needs met by TRICARE?

The HCSDB is a mail 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 prepared the sampling frame, which consists of selected variables for each MHS beneficiary in the Defense Enrollment Eligibility Reporting System (DEERS) database in April 2007. 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). The frame includes children of 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.

Mathematica Policy Research, Inc. (MPR, Washington, D.C.) prepared the sample of 35,000 child beneficiaries (Clusen et al, 2007). Synovate fielded the survey from June to September 2007. MPR analyzed the survey data, reported on the results, and prepared this document, the "2007 Health Care Survey of DoD Beneficiaries: Child Technical Manual" under task order 14, under Contract Number 233-02-0086.

This manual is designed as a reference tool to be used by analysts as they interpret the survey findings and prepare briefings. The 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 report. The manual 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

This section represents an overview of the methodology used in the survey. A sample of 35,000 parents or sponsors of MHS beneficiaries younger than 18 years of age received a 2007 Child HCSDB questionnaire between June 2007 and July 2007.

1. Sample Design

The 2007 child sample design is based on three sample stratifications—enrollment status, geographic area, and age group. Enrollment type is defined by enrollment in TRICARE Prime with a military primary care manager (PCM), enrollment in TRICARE Prime with a civilian PCM, and not enrolled in TRICARE Prime. The effect of this stratification is to allocate a greater proportion of the sample to those enrolled in Prime and a smaller proportion to those not enrolled in Prime.

Geographic area refers to the beneficiary's TRICARE Next Generation of Contracts (TNEX) regional assignment. The beneficiary's regional assignment is determined by the MTF that bears the financial responsibility for the beneficiary's health care. Beneficiaries were assigned to one of four regions: (1) North, (2) South, (3) West, and (4) Other.

Beneficiaries were assigned to one of three age groups: younger than 6 years old, between 6 and 12, and between 13 and 17 years old. Sampling procedures ensured that only one child per household was surveyed.

2. 2007 Child HCSDB

The HCSDB is an annual health care survey that was first fielded in 1995 for active duty military personnel, retirees, and their adult family members. In 1996 and 1997, the survey was expanded to include topics related to health care of children. In those years, the survey consisted of two separate questionnaires: Form A for adults and Form C for children's topics. The 1998 HCSDB did not include a child survey. In 2000, fielding of the child survey was resumed. The child survey assesses parents' satisfaction with their child's access to health care, TRICARE Prime, communication and customer service related to pediatric care. Note that prior to 2002, the title of the survey referred to the survey reference period. For example, the survey fielded in 2000 described children's experiences beginning in 1999 and was known as the 1999 Child HCSDB. Beginning in 2002, the survey title refers to the year the survey was fielded.

The 1999, 2000, 2002, and 2003 Child HCSDB were closely modeled on CAHPS 2.0H survey instruments. In 2004, 2005, 2006 and 2007, questions in the Child HCSDB were modified to conform to CAHPS 3.0H so that findings for children in the MHS could be compared with the results of recent CAHPS surveys of privately insured children. Most of the survey questions are identical to the CAHPS questions. CAHPS is a survey program sponsored by the Agency for Health Care Research and Quality (AHRQ), U.S. Department of Health and Human Services, and the Picker Institute. The program is designed to monitor the satisfaction and access of civilian health care plan beneficiaries. A few of the questions in the Child HCSDB survey are "CAHPS-like" but are modified slightly to better fit the MHS context; some questions are unique to issues related to TRICARE.

The Child HCSDB covers the following topics:

- **Health Plan.** This section collects data on TRICARE Prime enrollment and the use of supplemental insurance and/or other private insurance by the child in the past 12 months.
- **Your Child's Personal Doctor or Nurse.** In this section, respondents are asked about their relationship with their child's personal doctor or nurse. They are asked to rate their child's personal doctor or nurse on a scale of 0 to 10 where 0 is the worst and 10 is the best.
- **Getting Health Care from a Specialist.** This section collects information about the child's need for and access to care from specialists. Respondents rate the specialist that their child sees most frequently on a scale from 0 to 10 where 0 is the worst and 10 is the best.

- **Your Child's Health Care in the Last 12 Months.** This section collects information on the care children of DoD beneficiaries received in the past 12 months. These questions cover topics such as availability of providers and their staff, convenience, and courtesy and respect shown by providers and their staff. These questions are similar in content and format to questions in CAHPS.
- **Specialized Services.** In this section, parents are asked about getting care from multiple health care services.
- **Your Child's Health Plan.** This section is designed to measure beneficiaries' satisfaction with their child's primary health plan. Respondents are asked to rate their child's health plan on a scale of 0 to 10, where 0 is the worst and 10 is the best. Additionally, respondents are asked questions on finding and understanding written materials from their child's health plan, customer service, and processing paperwork.
- **Prescription Medications.** This section collects information on obtaining prescription medication for beneficiaries' children.
- **About Your Child and You.** This section collects demographic information about the child, including general and special health conditions, age, gender, and race. Respondents also report their age, gender, education level, and relationship to the child. This section includes a battery of questions designed to identify children with special health care needs.

3. Survey Response

The survey was fielded by mail. Out of the initial sample of 35,000, a total of 7,416 complete and unduplicated questionnaires were returned either by mail or internet, for a response rate of 21.3.

4. Database Development

MPR edited the data, selected the records for inclusion in the final database, and constructed variables to be used in the reports. To ensure that the survey data was representative of the DEERS population, MPR developed weights to take account of the initial sampling and the sampled individuals who chose not to respond to the survey.

B. ORGANIZATION OF THIS MANUAL

Chapter 2 presents the procedures used in fielding the survey. Chapter 3 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 4 describes how the database was analyzed. The description includes rules for developing response rates, 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 questionnaire
- Appendix B: Materials sent to the respondents during the fielding of the survey
- Appendix C: Data Processing Architecture
- Appendix D: Coding Scheme
- Appendix E: Technical Description of the 2007 TRICARE Child Beneficiary Reports
- Appendix F: SAS Code for File Development
- Appendix G: SAS Code for Statistical and Web Specifications for 2007 TRICARE Beneficiary Reports

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Chapter 2

Survey of Children

This chapter presents information on the survey administration cycle for the 2007 Child Health Care Survey of DoD Beneficiaries (HCSDB), with specific details on the survey mailing cycle and the number of surveys received. Those who received the mailing were given the option of responding on the internet instead of by mail. This chapter describes the mailings and the surveys received by mail. Both mail and internet responses are included in the dataset, frequency tables and response rate calculations.

A. SURVEY OPERATIONS ACTIVITIES

Operational support for the Child HCSDB involved four mailings to beneficiaries between June 4, 2007 and August 1, 2007.

The mailings include:

1. Pre-Notification Letter – Letter of explanation encouraging participation
2. Questionnaire 1 – The survey, including a brief letter of explanation
3. Postcard – A reminder to complete the survey and a thank you for completion
4. Questionnaire 2 – The survey, including a brief letter of explanation.

The Pre-Notification letter includes instructions on how to do the survey via the Internet. This change was initiated in Quarter II, FY2007. Prior to that, the Internet survey option was first given to the Beneficiaries in the letter accompanying the Questionnaire 1 mailing.

B. SAMPLE

The Child HCSDB was conducted during the 4th quarter of the fiscal year and surveyed 35,000 child beneficiaries.

C. SURVEY PROCESSING

Synovate applies a Bar Code, Control Number (MIQ) & Password to each beneficiary upon receipt of the sample. This system ensures that all data collected is aggregated and available throughout the survey lifecycle. Each of the identifying labels is detailed below:

Barcode
Digit 1 - Quarter Marker (1-4)
Digit 2 - Wave Marker (1-4)
Digit 3 - Study Marker (1=adult sample, 2=supplemental, 3=child)
Digits 4-8 - Sequential ID#

Control Number (MIQ) - 8-digit unique identifier
Digits 1-7 – Sequential ID #

Digit 8 – Check Digit

Password
Non-sequential 6-digit password (for online response access) – Password is unique across all samples

D. ADDRESSES

The HCSDB is designed so that beneficiaries may receive up to four mailings. Synovate may collect up to eight addresses for each beneficiary in order to maximize the receipt rate for mailing.

The first available address in the following order was used for each mailing.

1. Respondent/USPS Updated
2. Updated Residential
3. NCOA
4. Original Residential
5. Updated Sponsor
6. Original Sponsor
7. Updated Unit
8. Original Unit

The sources for these addresses are as follows:

- DEERS Addresses

  In the initial sample file, Altarum provides up to three addresses for each beneficiary. Synovate considers these addresses to be Original Residential, Original Sponsor and Original Unit.

  Altarum also provides updates on each of the three addresses prior to the Questionnaire, Postcard and 2nd Questionnaire mailings. Synovate records these addresses as Residential Updated, Sponsor Updated, Unit Updated.

- NCOA Address

  Upon receipt of the initial sample and prior to the Pre-Notification mailing, Synovate sends the first available address for each beneficiary to a National Change of Address (NCOA) vendor for updating and hygiene services. The updated address returned by the vendor is marked as the NCOA address.

- Respondent Updates

  Respondents were able to report address and status changes via telephone, voicemail, fax, and email. Address changes submitted by respondent were considered priority over any other address type.

- Address correction via USPS

  The United States Postal Service provided address corrections on returned mail if available.

Table 2.1 gives the address breakdown for each mailing by Beneficiary Category.

TABLE 2.1

FREQUENCY OF ADDRESS BY BENEFICIARY CATEGORY – SAMPLE

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Total
PRENOTIFICATION LETTER	**27**	**18935**	**6**	**4221**	**0**	**1111**	**0**	**9846**	**435**	**411**	**34992**
NCOA Updated Residential	0 0.00%	148 0.42%	0 0.00%	35 0.10%	0 0.00%	11 0.03%	0 0.00%	92 0.26%	4 0.01%	8 0.02%	298 0.85%
Original Residence	14 0.04%	18698 53.44%	6 0.02%	4149 11.86%	0 0.00%	1093 3.12%	0 0.00%	9701 27.72%	428 1.22%	401 1.15%	34490 98.57%
Original Sponsor	0 0.00%	89 0.25%	0 0.00%	37 0.11%	0 0.00%	7 0.02%	0 0.00%	53 0.15%	3 0.01%	2 0.01%	191 0.55%
Original Unit	13 0.04%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	13 0.04%
QUESTIONNAIRE 1	**27**	**18014**	**6**	**4028**	**0**	**1039**	**0**	**9333**	**392**	**311**	**33150**
NCOA Updated Residential	0 0.00%	11 0.03%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%	0 0.00%	0 0.00%	14 0.04%
Altarum Updated Residential	8 0.02%	3932 11.86%	5 0.02%	557 1.68%	0 0.00%	123 0.37%	0 0.00%	1545 4.66%	65 0.20%	70 0.21%	6305 19.02%
Original Residence	5 0.02%	13364 40.31%	1 0.00%	3296 9.94%	0 0.00%	881 2.66%	0 0.00%	7239 21.84%	294 0.89%	214 0.65%	25294 76.30%
Altarum Updated Sponsor	0 0.00%	647 1.95%	0 0.00%	142 0.43%	0 0.00%	31 0.09%	0 0.00%	508 1.53%	31 0.09%	25 0.08%	1384 4.17%
Original Sponsor	0 0.00%	60 0.18%	0 0.00%	32 0.10%	0 0.00%	4 0.01%	0 0.00%	39 0.12%	2 0.01%	2 0.01%	139 0.42%
Altarum Updated Unit	6 0.02%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	6 0.02%
Original Unit	8 0.02%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	8 0.02%

Table 2.1 continued

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Total
POSTCARD	**3**	**17798**	**0**	**3983**	**0**	**1031**	**0**	**9187**	**389**	**308**	**32699**
NCOA Updated Residential	0 0.00%	11 0.03%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	2 0.01%	0 0.00%	0 0.00%	14 0.04%
Altarum Updated Residential	0 0.00%	3888 11.89%	0 0.00%	551 1.69%	0 0.00%	122 0.37%	0 0.00%	1524 4.66%	65 0.20%	67 0.20%	6217 19.01%
Original Residence	0 0.00%	13197 40.36%	0 0.00%	3259 9.97%	0 0.00%	874 2.67%	0 0.00%	7117 21.77%	291 0.89%	214 0.65%	24952 76.31%
Altarum Updated Sponsor	0 0.00%	644 1.97%	0 0.00%	140 0.43%	0 0.00%	31 0.09%	0 0.00%	505 1.54%	31 0.09%	25 0.08%	1376 4.21%
Original Sponsor	0 0.00%	58 0.18%	0 0.00%	32 0.10%	0 0.00%	4 0.01%	0 0.00%	39 0.12%	2 0.01%	2 0.01%	137 0.42%
Original Unit	3 0.01%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3 0.01%
QUESTIONNAIRE 2	**3**	**16565**	**0**	**3702**	**0**	**959**	**0**	**8168**	**339**	**286**	**30022**
Respondent/ USPS Updated	0 0.00%	1127 3.75%	0 0.00%	186 0.62%	0 0.00%	55 0.18%	0 0.00%	288 0.96%	10 0.03%	50 0.17%	1716 5.72%
NCOA Updated Residential	0 0.00%	9 0.03%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	11 0.04
Altarum Updated Residential	2 0.01%	3547 11.81%	0 0.00%	502 1.67%	0 0.00%	109 0.36%	0 0.00%	1288 4.29%	51 0.17%	51 0.17%	5550 18.49%
Original Residence	0 0.00%	10891 36.28%	0 0.00%	2770 9.23%	0 0.00%	748 2.49%	0 0.00%	5782 19.26%	242 0.81%	148 0.49%	20581 68.55%
Altarum Updated Sponsor	0 0.00%	947 3.15%	0 0.00%	218 0.73%	0 0.00%	43 0.14%	0 0.00%	773 2.57%	35 0.12%	36 0.12%	2052 6.83%
Original Sponsor	0 0.00%	44 0.15%	0 0.00%	25 0.08%	0 0.00%	4 0.01%	0 0.00%	36 0.12%	1 0.00%	1 0.00%	111 0.37%
Original Unit	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%

E. SURVEY ADMINISTRATION TIMELINE

File Receipt	5/21/07
NCOA Update	5/22/07
Pre-Notification	6/4/07
DEERS Update	6/14/07
Questionnaire 1	7/6/07
Postcard	7/16/07
DEERS Update	7/19/07
Questionnaire 2	8/7/07
Close of Field	9/4/07
File to MPR	9/20/07
Final Report to DoD	9/21/07

F. DISPOSITION CODES

Synovate assigned disposition codes to each sample member as the information is received and questionnaire is returned. These codes are outlined below.

- FLAG_FIN=1
  Returned survey – survey was completed and returned.

- FLAG_FIN=2
  Returned ineligible – survey was returned with at least one question marked and information that the beneficiary was ineligible. The information indicating ineligibility may have come by phone, fax, or the survey itself.

- FLAG_FIN=3
  Returned blank – temporarily ill or incapacitated. Survey was returned blank along with information that the beneficiary was temporarily ill or incapacitated. These sample members were eligible.

- FLAG_FIN=4
  Returned blank – deceased. Survey was returned blank along with information that the beneficiary was deceased. These sample members were ineligible.

- FLAG_FIN=5
  Returned blank – incarcerated or permanently incapacitated. Survey was returned blank along with information that the beneficiary was incarcerated or permanently hospitalized. These sample members were ineligible.

- FLAG_FIN=6
  Returned blank – left military or divorced after fielding date, retired. Survey was returned blank along with information that the beneficiary left the military after fielding date, divorced after fielding date, or retired. These sample members were eligible.

- FLAG_FIN=7
  Returned blank – not eligible on fielding date. Survey was returned blank along with information that the beneficiary was not eligible for Military Health System Plan on fielding date. These sample members were ineligible.

- FLAG_FIN=8
  Returned blank – other eligible. Survey was returned blank along with a reason given by the sample member. These sample members were eligible.

- FLAG_FIN=9
  Returned blank – no reason. Survey was returned blank without an explanation. These sample members had unknown eligibility.

- FLAG_FIN=10
  No return – temporarily ill or incapacitated. Survey was not returned and beneficiary was temporarily ill or incapacitated. These sample members were eligible.

- FLAG_FIN=11
  No return – active refuser. Survey was not returned and beneficiary refused to take part in the survey. These sample members were eligible.

- FLAG_FIN=12
  No return – deceased. Survey was not returned and beneficiary deceased. The information came in by phone. These sample members were ineligible.

- FLAG_FIN=13
  No return – incarcerated or permanently incapacitated. Survey was not returned, beneficiary was incarcerated or permanently hospitalized. These sample members were ineligible.

- FLAG_FIN=14
  No return – left military or divorced after fielding date, retired. Survey was not returned, beneficiary left service after fielding date, divorced after fielding date, or retired. These sample members were eligible.

- FLAG_FIN=15
  No return – not eligible on fielding date. Survey was not returned, beneficiary was not eligible for Military Health System Plan on fielding date. These sample members were ineligible.

  Example: Beneficiary turned 21 and is no longer covered under parents' plan.

- FLAG_FIN=16
  No return – other eligible. Survey was not returned, beneficiary gave other reason for not completing the survey. These sample members were eligible.

  Examples: Beneficiary claims they have not used benefits in past 12 months.
  Beneficiary is away at college, on a religious mission, lives overseas.
  Received information that Beneficiary chosen for survey does not speak English well enough to participate.

- FLAG_FIN=17
  No return – no reason. Survey was not returned, beneficiary gave no reason. These sample members had unknown eligibility.

- FLAG_FIN=18
  Postal Non Deliverable (PND) – no address remaining. All addresses were attempted, mailing was returned PND. These sample members had unknown eligibility.

- FLAG_FIN=19
  PND – address remaining at the close of field. At the close of field, the last address used was found invalid, next available was not attempted. These sample members had unknown eligibility.

- FLAG_FIN=20
  Original Non-Locatable – no address at start of mailing. Substantially incomplete or blank address field before the survey was administered, no mailings attempted. These sample members had unknown eligibility.

- FLAG_FIN=21
  Beneficiary provides written documentation declining to participate but doesn't specify a reason. These sample members were eligibile.

- FLAG_FIN=22
  Beneficiary indicates they are hospitalized but without providing any way to determine whether incapacity is temporary or permanent. Therefore, eligibility determination can not be made. These sample members had unknown eligibility.

- FLAG_FIN=23
  Returned blank – deployed. Survey was returned blank along with information that the beneficiary was deployed. These sample members were eligibile.

- FLAG_FIN=24
  No return – deployed. Survey was not returned, beneficiary was deployed. These sample members were eligibile.

- FLAG_FIN=25
  Deceased. Beneficiary coded as deceased due to refresh sample sent by Altarum. These sample members were ineligibile.

- FLAG_FIN=26
  No match. Not eligible indicated by DEERS update

Table 2.2 documents the final disposition of the survey sample by each beneficiary group.

TABLE 2.2

FREQUENCY OF DISPOSITION BY BENEFICIARY CATEGORY – SAMPLE

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Total
RETURNED											
Completed (1)	1 0.00%	3511 9.98%	0 0.00%	864 2.46%	0 0.00%	247 0.70%	0 0.00%	2973 8.45%	96 0.27%	25 0.07%	7717 21.94%
Ineligible (2)	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%
Temporarily Ill or Incapacitated (3)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Deceased (4)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Incarcerated or Permanently Incapacitated (5)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Left Military or divorced after 1.31.07, retired (6)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Not Eligible on 1.31.07 (7)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Other Eligible (8)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
No Reason (9)	0 0.00%	107 0.30%	0 0.00%	29 0.08%	0 0.00%	3 0.01%	0 0.00%	59 0.17%	0 0.00%	0 0.00%	198 0.56%
NO RETURN											
Temporarily Ill or Incapacitated (10)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Active Refusal (11)	0 0.00%	13 0.04%	0 0.00%	2 0.01%	0 0.00%	1 0.00%	0 0.00%	13 0.04%	1 0.00%	2 0.01%	32 0.09%

Table 2.2 (continued)

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Total
Deceased (12)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	1 0.00%
Incarcerated or Permanently Incapacitated (13)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Left Military or divorced after 1.31.07, retired (14)	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	2 0.01%
Not Eligible on 1.31.07 (15)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	3 0.01%	0 0.00%	0 0.00%	3 0.01%
Other Eligible (16)	24 0.07%	12 0.03%	6 0.02%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	43 0.12%
No Reason (17)	2 0.01%	13749 39.09%	0 0.00%	3096 8.80%	0 0.00%	802 2.28%	0 0.00%	6388 18.16%	259 0.74%	242 0.69%	24538 69.76%
PND											
No Address Remaining (18)	0 0.00%	1093 3.11%	0 0.00%	160 0.45%	0 0.00%	29 0.08%	0 0.00%	249 0.71%	71 0.20%	52 0.15%	1654 4.70%
Address Remains at Close of Field (19)	0 0.00%	448 1.27%	0 0.00%	70 0.20%	0 0.00%	15 0.04%	0 0.00%	220 0.63%	11 0.03%	7 0.02%	771 2.19%
No Address at Start of Mailing (20)	2 0.01%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	5 0.01%	0 0.00%	7 0.02%
MISCELLANEOUS											
Written Refusal without Reason (21)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
Ill or Incapacitated – Unsure whether Temporary or Permanent (22)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%

Table 2.2 (continued)

	Active Duty (ACT)	Dependent of Active Duty (DA)	Guard/ Reserve (GRD)	Dependent of Guard/ Reserve (DGR)	Inactive Guard/ Reserve (IGR)	Dependent of Inactive Guard/ Reserve (IDG)	Retiree (RET)	Dependent of Retiree (DR)	Survivor (DS)	Other (OTH)	Total
DEPLOYED											
Returned Blank (23)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
No Return (24)	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
SAMPLE REFRESH											
Deceased Indicated by Altarum-DEERS Update(25)	0 0.00%	1 0.00%	0 0.00%	2 0.01%	0 0.00%	1 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	4 0.01%
Not Eligible Indicated by Altarum-DEERS Update (26)	0 0.00%	80 0.23%	0 0.00%	15 0.04%	0 0.00%	20 0.06%	0 0.00%	6 0.02%	0 0.00%	83 0.24%	204 0.58%
TOTALS	**29**	**19016**	**6**	**4239**	**0**	**1118**	**0**	**9913**	**443**	**411**	**35175**
RESPONSE RATE	**3.70%**	**17.93%**	**0.00%**	**20.04%**	**0.00%**	**22.23%**	**0.00%**	**29.92%**	**19.28%**	**6.70%**	**21.53%**

Chapter 3

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; constructing variables; and weighting.

A. DATABASE DESIGN

The 2007 Child HCSDB consists of variables from various sources. When Synovate delivered the file to MPR after fielding the sample, the following types of variables were present:

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

MPR added 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, MPR updated and cleaned the questionnaire responses using the Coding Scheme tables found in Appendix D. This year the final file does not include both the original and recoded responses, but only the cleaned 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 3.1 lists all variables in the database by source and briefly describes each variable. For specific information on variable location within the database, refer to the "2007 Health Care Survey of DoD Beneficiaries: Child Codebook and User's Guide."

1. Data Sources

a. Sampling Variables

MPR 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.

b. DEERS

Altarum provided the sampling frame to MPR 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.

c. Questionnaire Responses

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

d. Survey Fielding Variables

In the process of fielding the survey, Synovate 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 D) 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

MPR constructed additional variables that were used in the child report cards. 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 3.D.

g. Weights

MPR 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 poststratification

Weighting procedures are discussed in section 3.E.

TABLE 3.1

VARIABLES IN THE 2007 CHILD HCSDB DATA FILE

SAMPLING VARIABLES	
MPRID	- Unique MPR Identifier
MPCSMPL	- MPCSMPL - Military Personnel Category
SVCSMPL	- SVCSMPL - Branch of Service
SEXSMPL	- SEXSMPL - Sex
AGESMPL	- AGESMPL - Age
BGCSMPL	- BGCSMPL - Beneficiary Group
ENBGSMPL	- Enrollment by beneficiary category
STRATUM	- Sampling STRATUM
TNEXREG	- Beneficiary's TNEX Region
TNEXSMPL	- TNEXSMPL - Beneficiary TNEX region
E1	- Eligibility indicator for period = 1
E2	- Eligibility indicator for period = 2
E3	- Eligibility indicator for period = 3
E4	- Eligibility indicator for period = 4
E5	- Eligibility indicator for period = 5
E6	- Eligibility indicator for period = 6
E7	- Eligibility indicator for period = 7
DEERS VARIABLES	
MRTLSTAT	- Marital Status
RACEETHN	- Race/Ethnic Code
DAGEQY	- Age (As of April 16, 2007)
FIELDAGE	- Age (As of June 1, 2007)
PCM	- Primary Manager Code (CIV or MIL)
PNTYPCD	- Person Type Code
PNLCATCD	- Personnel Category Code (Duty Status)
MBRRELCD	- Member Relationship Code
DBENCAT	- Beneficiary Category
DMEDELG	- Medical Privilege Code
DSPONSVC	- Derived Sponsor Branch of Service
MEDTYPE	- Medicare Type
PATCAT	- Aggregated Beneficiary Category
DCATCH	- Catchment Area
ACV	- ACV - Alternate Care Value
POST STRATIFICATION	
ENLSMPL	- ENLSMPL - Enrollment Sampling Group
FNSTATUS	- Final Status
KEYCOUNT	- # of Key Questions Answered
POSTSTR	- Post Stratification Cell
QUESTIONNAIRE RESPONSES	
C07001	- Are you adult responsible for child
C07002A	- Child covered by TRICARE Prime
C07002B	- Child covered by TRICARE Extra/Standard
C07002C	- Child covered by civilian HMO
C07002D	- Child covered by other civilian insurance
C07002E	- Child covered by Medicaid
C07002F	- Child covered by Uniform Services Family Health Plan(USFHP)
C07002G	- Child covered by Federal Employees Health Benefit Program(FEHBP)
C07002H	- Not sure who child is covered by
C07002I	- Child was not covered by health plan last 12 months
C07002J	- Child covered by Government health insurance from a Non-US country
C07002K	- Child covered by TRICARE Reserve Select
C07003	- Which health plan did you use most

C07004	- Last 12 months:# months in a row child enrolled in health plan
C07005	- Type of facility child used most often
C07006	- Does child have personal Dr/Nurse
C07007	- Rating of child's personal Dr/Nurse
C07008	- Had same personal doctor/nurse before joining this health plan
C07009	- How much problem to get personal Dr/Nurse
C07010	- Talk about feeling/growing/behaving
C07011	- Child has medical/behavioral/other condition lasting >3 months
C07012	- Dr understands med/behvrl/othr cndtn's effect on child's daily life
C07013	- Dr understands med/behvrl/othr cndtn's effect on family's daily life
C07014	- Did you or a doctor think child needed to see specialist
C07015	- How much problem to see specialist that child needed to see
C07016	- In last 12 mos did child see specialist
C07017	- Rating of specialist seen most often
C07018	- Specialist same as personal Dr
C07019	- You/Dr thought child needed mental health services
C07020	- Child saw mental health specialist (MHSp)
C07021A	- Rsn child not see MHSp: Didn't think child needed to visit specialist
C07021B	- Rsn child not see MHSp: Child's personal Dr/nurse was able to help
C07021C	- Rsn child not see MHSp: Not sure where to locate specialist in child's health plan or network
C07021D	- Rsn child not see MHSp: Not enough choice
C07021E	- Rsn child not see MHSp: Specialist was too far
C07021F	- Rsn child not see MHSp: Wanted specialist not in child's health plan or network
C07021G	- Rsn child not see MHSp: Couldn't get appointment at convenient time
C07021H	- Rsn child not see MHSp: Wanted specialist not taking new patients
C07021I	- Rsn child not see MHSp: Other
C07022	- How often child get needed care from mental health specialist
C07023	- Call during regular hours to get help/advice
C07024	- Called during regular hours, did you get help
C07025	- Have illness/injury that needed care right away
C07026	- Get needed care as soon as wanted
C07027	- Make apptmnt for regular/routine healthcare
C07028	- How often child got apptmnt for care as soon as wanted
C07029	- Times to ER
C07030	- Times to Dr office/Clinic (excluding ER)
C07031	- Parent/Dr believed child needed care/tests/treatment
C07032	- Problem to get necessary care
C07033	- Needed approval from child's health plan for any care/tests/treatment
C07034	- Problem wait for approval
C07035	- Taken to exam room within 15 minutes
C07036	- How often staff treat with courtesy & respect
C07037	- How often were staff helpful
C07038	- How often did staff listen carefully
C07039	- How often did staff explain things to you
C07040	- How often staff respect what had to say
C07041	- Child able to talk to Dr
C07042	- Dr explain in way for child to understand
C07043	- How often spend enough time w/child
C07044	- Have questions about child's health or health care
C07045	- How often child's Dr made it easy to discuss concerns
C07046	- How often you got specific info needed from child's Dr
C07047	- How often you had your questions answered by child's Dr
C07048	- Were any decisions made about your child's health care
C07049	- How often child's Dr involved you as much as you wanted when decisions were made
C07050	- Rating of child's healthcare
C07051	- Child got care from more than one kind of health care provider

C07052	- Someone from health plan/Dr's office helped coordinate child's care from different services
C07053	- Look for info/written material
C07054	- Problem to find/understand info in written material
C07055	- Call customer service to get info
C07056	- Problem to get help when call customer service
C07057	- Experience with paperwork
C07058	- Problem with paperwork
C07059	- Rating of experience with child's health plan
C07060	- Child get prescription or you refilled child's prescription
C07061	- Child get prescription to help emotions/behavior
C07062	- Problem getting child's prescription medicine
C07063	- Someone from health plan/Dr's office helped get child's prescription
C07064	- Rate child's overall health
C07065	- Child use medicine prescribed by Dr
C07066	- Medicine b/c medical,behavioral,other condition
C07067	- Medicine b/c condition expected last>=12 mos
C07068	- Child needs/uses more medical,mntl,eductnl services than is usual
C07069	- Use services b/c of medical/behavioral/othr health condition
C07070	- Svcs b/c condition expected last>=12 mos
C07071	- Limited/prevented in ability
C07072	- Limited b/c medical, behavioral, other condition
C07073	- Limited b/c condition expected last>=1yr
C07074	- Need special therapy
C07075	- Therapy b/c medical, behavioral, other condition
C07076	- Therapy b/c condition expected to last>=1yr
C07077	- Problem for which gets trtmnt/counseling
C07078	- Trtmnt/counseling b/c conditn last>=1yr
C07079A	- Dr/nurse says: child has anxiety problems
C07079B	- Dr/nurse says: child has attention problems
C07079C	- Dr/nurse says: child has conduct problems
C07079D	- Dr/nurse says: child has depression problems
C07079E	- Dr/nurse says: child has development delay/mental retardation
C07079F	- Dr/nurse says: child has learning problems/disability
C07079G	- Dr/nurse says: child has sleep disturbance
C07079H	- Dr/nurse says: child has other problems
C07080A	- Child receives services under PFPWD/ECHO
C07080B	- Child receives services under ICMP-PEC
C07080C	- Child receives services under CCTP
C07080D	- Child doesn't receive PFPWD/ECHO/ICMP-PEC/CCTP
C07081	- Child's disorder requires care frm specialist
C07082	- Family enrolled in EFMP
C07083F	- Feet portion of child's height without shoes
C07083I	- Inches portion of child's height without shoes
C07084	- Child's weight without shoes on in pounds
C07085	- How old is your child
C07086	- Is child male or female
C07087	- Is child Hispanic/Latino
C07087A	- Child Hispanic/Latino: No
C07087B	- Child Hispanic: Mexican/Mexican American/Chicano
C07087C	- Child Hispanic: Puerto Rican
C07087D	- Child Hispanic: Cuban
C07087E	- Child Hispanic: Other Spanish/Hispanic/Latino
C07088A	- Child race: White
C07088B	- Child race: Black
C07088C	- Child race: American Indian/Alaskan
C07088D	- Child race: Asian

C07088E	- Child race: Native Hawaiian/Pacific Islander
C07089	- Your age now
C07090	- Are you male or female
C07091	- Highest grade/level you completed
C07092	- How are you related to the policy holder
C07093	- How related to child
NRC SURVEY FIELDING VARIABLES	
ONTIME	- On time indicator
FLAG_FIN	- Final Disposition
DUPFLAG	- Multiple Response Indicator
WEB	- Web/mail-out survey indicator
CODING SCHEME FLAGS AND COUNTS	
N1A	- Coding Scheme Note 1A
N1	- Coding Scheme Note 1
N2	- Coding Scheme Note 2
N3	- Coding Scheme Note 3
N4	- Coding Scheme Note 4
N5	- Coding Scheme Note 5
N6	- Coding Scheme Note 6
N7	- Coding Scheme Note 7
N8	- Coding scheme Note 8
N9	- Coding scheme Note 9
N10	- Coding Scheme Note 10
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
N16	- Coding Scheme Note 16
N17	- Coding Scheme Note 17
N18	- Coding Scheme Note 18
N19	- Coding Scheme Note 19
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
N26	- Coding Scheme Note 26
N27	- Coding Scheme Note 27
MISS_1	- Count of: Violates Skip Pattern
MISS_4	- Count of: Incomplete grid error
MISS_5	- Count of: Don't know or not sure
MISS_6	- Count of: Not applicable - valid skip
MISS_7	- Count of: Out-of-range error
MISS_8	- Count of: Multiple response error
MISS_9	- Count of: No response - invalid skip
MISS_TOT	- Total number of missing responses
CONSTRUCTED VARIABLES	
CONUS	- CONUS - CONUS/OCONUS Indicator
XENRLLMT	- Enrollment in TRICARE Prime
XENR_PCM	- Enrollment by PCM type
XINS_COV	- Insurance Coverage
XBNFGRP	- Constructed Beneficiary Group
XBMIPCT	- Body Mass Index Percentile
XBMICAT	- Body Mass Index Category
XTNEXREG	- TNEX Region

KMILOFFC	- Office wait of more than 15 minutes-Mil
KCIVOFFC	- Office wait of more than 15 minutes-Civ
KBGPRB1	- Big problem getting referrals to spclst
KBGPRB2	- Big problem getting necessary care
KMILOP	- Outpatient visits to military facility
KCIVOP	- Outpatient visits to civilian facility
KCIVINS	- Beneficiary covered by civilian insurance
WEIGHTS	
BWT	- BWT - Basic Sampling Weight
ADJWT	- ADJWT - Adjusted Weight
POP	- DEERS population by post stratification cell
WRWT	- Final Weight
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

2. Variable Naming Conventions

To preserve continuity with survey data from previous years, MPR followed the same variable naming conventions used for the 1999, 2000, 2002, 2003, 2004, 2005 and 2006 Child survey data. Variable naming conventions for the 2007 Child HCSDB are shown in Table 3.2. The public use files for the child survey will contain only recoded variables.

TABLE 3.2

NAMING CONVENTIONS FOR 2007 CHILD HCSDB VARIABLES
(VARIABLES REPRESENTING SURVEY QUESTIONS)

1st Character: Survey Type	2nd – 3rd Characters: Survey Year	4th – 6th Characters: Question #	Additional Characters: Additional Information
C= Health Beneficiaries (17 and Younger, child questionnaire)	07	001 to 093	A to K are used to label responses associated with a multiple response question

Table 3.2 (cont.)

(CONSTRUCTED VARIABLES)

1st Characters: Variable Group	Additional Characters: Additional Information
N=Coding scheme notes	Number referring to Note, e.g., N2
X=Constructed independent variable	Descriptive text, e.g., XENRLLMT
K=Constructed dependent variables	Descriptive text, e.g., KMILOP (total number of outpatient visits to military facility)

3. Missing Value Conventions

The 2007 conventions for missing variables are the same as the 2007 Adult HCSDB conventions and the child HCSDB in prior years. All missing value conventions used in the 2007 Child HCSDB are shown in Table 3.3

TABLE 3.3

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	.O	Out of range error
-6	.N	Not applicable or valid skip
-5	.D	Scalable response of "Don't know" or "Not sure"
-4	.I	Incomplete grid error
-1	.C	Question should have been skipped, not answered

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
- Checks for multiple responses to any question that should have one response

- 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

Synovate spot checked the scanned results from the original survey to verify the accuracy of the scanning process and made any necessary corrections by viewing the returned survey.

2. Additional Synovate Editing and Coding

In preparing the database for MPR, Synovate used variable names and response values provided by MPR in the annotated questionnaire (see Appendix A). Synovate delivered to MPR 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

Synovate delivered to MPR 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 3.C.

4. Removal of Sensitive or Confidential Information

The file that MPR received from Synovate contained sensitive information such as social security number (SSN). Any confidential information was removed from the file. Each beneficiary had already been given a generic ID (MPRID) substitute during sample selection, the MPRID was retained as a means to uniquely identify each individual.

5. Initial Frequencies

MPR 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. MPR 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

MPR's plan for data quality for the child questionnaire is found in the 2007 Child Coding Scheme. It contains detailed instructions for all editing procedures used to correct data inconsistencies and errors. The Coding Scheme tables are found in Appendix D. 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 program implementing the Coding Scheme is found in Appendix F.2.

a. 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 will be checked to determine which are most accurate, given the answers to other questions. Questions that are 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 2007 Child Coding Scheme (see Appendix D) 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.

b. Missing Values

Synovate initially encoded any question with a missing response to a SAS missing value code of '.'. After verifying skip patterns, MPR 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 questions that should not have been answered is shown in Table 3.3.

Occasionally, missing questionnaire responses can be inferred by examining other responses. For example, if a respondent fails to answer Question 27 regarding appointments made by sponsors for their child for regular or routine care, but answers Question 28 about how often their child got an appointment for regular or routine care as soon as they wanted, we can reason that they did make an appointment in the past 12 months. Using this technique, we successfully recoded some missing questionnaire responses to legitimate responses.

7. Quality Assurance

MPR 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 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, MPR 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. MPR 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 weighting adjustments and constructed variables.

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 Synovate for each sampled beneficiary. This information is contained in the FLAG_FIN variable and is described in Table 3.4.

TABLE 3.4

FLAG_FIN VARIABLE

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 1/31/07 , or retired	Eligible
7	Returned blank	Information sent that beneficiary was not eligible on 1/31/07	Ineligible
8	Returned blank	Blank form accompanied by reason for not participating	Eligible
9	Returned blank	No reason given	----
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. Information came in by phone	Ineligible
14	No return	Left military or divorced after 1/31/07, or retired. Information came in by phone	Eligible
15	No return	Not eligible on 1/31/07. Information came in by phone	Ineligible
16	No return	Other eligible. Information came in by phone	Eligible
17	No return	No reason	---
18	PND	No address remaining	---
19	PND	Address remaining at the close of field	---
20	Original Non-Locatable	No address at start of mailing	---
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	---
23	Returned blank - deployed	Survey was returned blank along with information that the beneficiary was deployed.	Eligible
24	No return- deployed	Survey was not returned, beneficiary was 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 3.4, 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 on January 31, 2007, that is, not deceased, not incarcerated, and 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, divorce, or no longer being in the MHS as of January 31, 2007 (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, 23 key questions were adapted from the complete questionnaire rule for the CAHPS 3.0. The key questions are: 3, 4, 5, 6, 14, 18, 23, 25, 27, 29, 30, 65, 67, 69, 71, 75, 104, 105, 107, 108, 109, 111, and the race indicator. If thirteen or more of these key items are completed, then the questionnaire can be counted as complete.

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

- G3-1. Returned ineligible
- G3-2. Ineligible at time of Altarum address update

G3-1 consists of ineligible beneficiaries who responded to the survey request, but told us that 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 non-deliverable/no address, postal non-deliverable/had address, or original nonlocatable (FLAG_FIN = 18, 19, 20).

With this information, we can calculate the location rate (see Section 4.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 175 duplicate questionnaires in the data set Synovate 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.If one of a pair of questionnaires belongs to Group 3 (FNSTATUS = 3, i.e., ineligible), then we regarded the questionnaire as being ineligible. However, if questionnaires from the same beneficiary have FNSTATUS code values of 31 and 32, we retained the value of 32.

Only beneficiaries with FNSTATUS = 11 were retained in the final child HCSDB file. All other records were dropped.

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 3.1 there is a list of all constructed variables for 2007. 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 and Appendix G.

1. Demographic Variables

a. Region (XTNEXREG)

This variable groups the CONUS regions into 4 regions: north, south, west, and overseas.

North contains regions ‘01’, ‘02’, and ‘05’. South contains regions ‘03’,’04’, and ‘06’. West consists of regions ‘07’, ‘08’, ‘09’, ‘10’, ‘11’, ‘12’, and ‘AK’. Overseas is comprised of the regions ‘13’, ‘14’, and ‘15’.

```
/* CREATE XTNEXREG. */
  IF DHSRGN IN ('01','02','05')                THEN XTNEXREG=1;
  ELSE IF DHSRGN IN ('03','04','06')           THEN XTNEXREG=2;
  ELSE IF DHSRGN IN ('07','08','09','10','11','12','AK') THEN XTNEXREG=3;
  ELSE IF DHSRGN IN ('13','14','15')           THEN XTNEXREG=4;
  ELSE IF DHSRGN IN ('16')                     THEN XTNEXREG=.;
```

b. Continental United States (CONUS)

XREGION is used to classify beneficiaries either in the continental United States (CONUS) or overseas (OCONUS).

CONUS stands for Continental United States but it includes both Alaska and Hawaii.

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

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 the enrollment type (ENBGSMPL), based on DEERS data, indicates that they were enrolled at the time of data collection. The two categories for TRICARE Prime enrollment are as follows:

1 = Enrollees
2 = Not enrolled in TRICARE Prime

. = Unknown

```
/* XENRLLMT--ENROLLMENT STATUS */
IF ENBGSMPL IN ('01','02','03','05','06') THEN XENRLLMT = 1; /*   Enrolled  */
ELSE IF ENBGSMPL IN ('04','07') THEN XENRLLMT = 2;          /*   Not Enrolled */
```

b. TRICARE Prime Enrollment Status by Primary Care Manager (XENR_PCM)

This variable determines if a child has a civilian or a military primary care manager (PCM).

1 = Enrolled with a military PCM
2 = Enrolled with a civilian PCM
3 = Not enrolled

```
/* XENR_PCM--ENROLLMENT BY PCM TYPE */
IF ENBGSMPL IN ('01','03','06') THEN XENR_PCM=1;          /* 1=Enrolled  - mil PCM */
ELSE IF ENBGSMPL IN ('02','05') THEN XENR_PCM=2;      /* 2=Enrolled  - civ PCM */
ELSE IF ENBGSMPL IN ('04','07') THEN XENR_PCM=3;      /* 3=Not Enrolled        */
```

c. Most–Used Health Plan (XINS_COV)

The respondent's most–used health plan comes directly from Question 3. The three categories for this variable are as follows:

1 = TRICARE Prime
2 = TRICARE Standard/Extra (CHAMPUS)
3 = Other civilian health insurance or civilian HMO
4 = TRICARE Reserve Select
. = Unknown

```
/* XINS_COV--INSURANCE COVERAGE */
 IF C07003 = 1 THEN XINS_COV = 1;                          /* Prime */
 ELSE IF C07003 = 3  THEN XINS_COV = 2;                    /* Standard/Extra */
 ELSE IF C07003 IN (5,6,7,8,9,10) THEN XINS_COV = 3;       /* Other Insurance */
 ELSE IF C07003 = 11 THEN XINS_COV = 4;                    /* TRICARE Reserve Select */
```

d. Types of Coverage (KCIVINS)

This variable was created to indicate if the respondent is covered by civilian insurance (KCIVINS):

This variable has the following values:

1 = Yes
2 = No
.= Unknown

```
/* KCIVINS--IS BENEFICIARY COVERED BY CIVILIAN INSURANCE */
IF (C07002C=1 OR C07002D=1 OR C07002E=1 OR C07002G=1) THEN KCIVINS=1;  /* YES  */
ELSE KCIVINS=2;                                  /* NO   */
```

e. Beneficiary group (XBNFGRP)

This variable is equal to the sampling variable BGCSMPL and has the following values:

1 = Active duty
2 = Family of active duty
3 = Family of retirees or survivors
.= Unknown

```
/* XBNFGRP-Beneficiary Group that excludes those 65 and over-
Active Duty and Family Members of Active Duty */
XBNFGRP=BGCSMPL;
```

3. Access to Care (KMILOFFC, KCIVOFFC, KBGPRB1, KBGPRB2)

Many of the survey questions on access relate directly to a TRICARE performance standard. The questions in the Section "Your Child's Healthcare in the Last 12 Months" of the questionnaire refer to all healthcare received in the last 12 months. For these questions, we constructed binary variables, separately for respondents who used military and civilian facilities the most, indicating whether the TRICARE standard was met. Table 3.5 presents those standards that were analyzed in the reports. The new variables have the following values:

1 = Standard was met
2 = Standard was not met
. = Missing information

TABLE 3.5

TRICARE STANDARDS FOR ACCESS

Access Measure	TRICARE Standard	Variable Name	Relevant Question
Waiting Room Wait	Within 15 minutes	KMILOFFC, KCIVOFFC	35

```
 /* KMILOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT MILITARY FACILITES
KCIVOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT CIVILIAN FACILITES */
IF C07005 = 1 THEN DO;                          /* Military */
  IF C07035  IN (1,2) THEN KMILOFFC = 1;              /* Yes */
  ELSE IF C07035  IN (3,4) THEN KMILOFFC = 2;         /* No  */
END;
  ELSE IF C07005 = 2 THEN DO;                     /* Civilian */
      IF C07035  IN (1,2) THEN KCIVOFFC = 1;          /* Yes */
      ELSE IF C07035  IN (3,4) THEN KCIVOFFC = 2;     /* No */
                END;
```

Question 15 asks how much of a problem, if any, it was to get a referral to a specialist. The responses to this question are regrouped by a binary variable KBGPRB1. KBGPRB1 looks at these two categories:

1 = Those who reported a "big problem"
2 = Those who reported not a "big problem"
. = Missing response

```
/* KBGPRB1--BIG PROBLEM GETTING REFERRALS TO SPECIALISTS */
IF C07015 = 1 THEN KBGPRB1 = 1;                    /* YES */
  ELSE IF C07015  IN (2,3) THEN KBGPRB1 = 2;          /* NO  */
```

Similarly, variable KBGPRB2 was constructed. Question 32 asks about how much of a problem, if any, it was to get the care you or a doctor believed necessary. The responses to this question are regrouped by a binary variable KBGPRB2. KBGPRB2 looks at these two categories:

1 = Those who reported a "big problem"
2 = Those who reported not a "big problem"
. = Missing response

```
/* KBGPRB2--BIG PROBLEM GETTING NECESSARY CARE */
IF C07032 = 1 THEN KBGPRB2 = 1;                    /* YES */
ELSE IF C07032  IN (2,3) THEN KBGPRB2 = 2;          /* NO  */
```

4. Utilization

a. Outpatient Utilization (KMILOP, KCIVOP)

Question 30 contains the total number of outpatient visits. This is renamed to KMILOP or KCIVOP depending on the answer to Question 5, which type of facility did you use most. The new variables have the following values:

1 = no visits
2 = 1 visit
3 = 2 visits
4 = 3 visits
5 = 4 visits
6 = 5 to 9 visits
7 = 10 or more visits

```
/* KMILOP--OUTPATIENT VISITS TO MILITARY FACILITY
   KCIVOP--OUTPATIENT VISITS TO CIVILIAN FACILITY */
IF C07005 = 1 THEN KMILOP=C07030;
ELSE IF (C07005=. AND C07030=.) THEN KMILOP=.;
ELSE KMILOP = 1 ;

IF C07005 = 2 THEN KCIVOP=C07030;
ELSE IF (C07005=. AND C07030=.) THEN KCIVOP=.;
ELSE KCIVOP = 1 ;
```

5. Child Body Mass Index

a. Percentile for Child Body Mass Index (XBMIPCT)

The reported body mass index of children over age 24 months is assigned a percentile based on the 2000 Centers for Disease Control and Prevention (CDC) growth charts. The body mass index is equal to the child's weight in kilograms divided by the square of his or her height in meters. The program Create BMI.sas (Appendix F.5) first creates a dataset with the variables needed to call gc-calculate.sas (Appendix F.6). Gc-calculate calculates the percentiles for child body mass index (BMIPCT) based on the CDC growth charts. If a child is in the 70th percentile, this means compared to children of the same age and gender, 70 percent have a lower BMI. BMIPCT is

renamed to XBMIPCT. Note: Qc-calculate.sas uses two variables, BMI and the child's age in months, not contained in the public use file.

b. Child Body Mass Index Category (XBMICAT)

First, certain observations are excluded (exclude=2) as extreme height or weight outliers by comparison with CDC's growth charts. Then the variable OVER is defined by comparing BMIPCT to cutoff points identifying underweight and overweight children. It is renamed XBMICAT. This new variable has the following values:

1 = underweight
2 = at risk
3 = normal
4 = underweight

```
IF exclude NE 2 THEN DO;
  if BMIPCT ge 95 then over = 4;
  else if 85 le BMIPCT lt 95 then over = 3;
  else if 5 lt BMIPCT lt 85 then over = 2;
  else if 0 le BMIPCT le 5 then over = 1;
END;
XBMICAT = over;
```

E. WEIGHTING PROCEDURES

Estimates based on the 2007 HCSDB must account for the survey's complex sample design and for the potential biasing effects due to nonresponse. As a part of sample selection, MPR constructed sampling weights (BWT) that reflect the differential selection probabilities used to sample beneficiaries across strata. Nonresponse can also lead to distortions of the respondent sample with respect to the total population of DoD Child health care beneficiaries. Adjustments were made to these sampling weights, BWT, to compensate for such distortions, using a weighting class method. These adjusted weights were also adjusted through the poststratification procedure to form the analysis weights, which we included in the final deliverable database. We also generated replicate weights for the final database so that users have the option of obtaining variance estimates with a replication method as well as the Taylor series method. This section presents these weighting procedures for the 2007 Child HCSDB.

1. Constructing the Sampling Weight

The sampling weight was constructed on the basis of the sample design. In the 2007 Child HCSDB, stratified sampling was used to select the samples that would receive the questionnaire. Sampling for the child survey was independently executed within strata defined by combinations of the three domains: enrollment status groups; age 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 2007 child sample design, see the *2007 Health Care Survey of DoD Beneficiaries: HCSDB Child Sample Report*. Our first step in weighting was to construct sampling weights that reflect these unequal sampling rates. These sampling weights can be viewed as the number of population elements that each sampled beneficiary represents. The sampling weight was defined as the inverse of the beneficiary's selection probability or:

(1) $$W_s(h,i) = \frac{N(h)}{n(h)}$$

where:

$W_s(h,i)$ is the sampling weight for the i-th sampled beneficiary within the h-th stratum,
$N(h)$ is the total number of beneficiaries in the h-th stratum, and
$n(h)$ is the number of sampled beneficiaries from stratum h.

The sum of the sampling weights over selections from the h-th stratum equals the total population size of the h-th stratum 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). To reduce this bias, we developed procedures to deal with the problems caused by nonresponse. Two types of nonresponse were associated with the 2007 Child HCSDB:

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

With high item response rates observed in previous Adult HCSDB surveys, statistical imputation was not used to compensate for item nonresponse in the 2007 Child HCSDB. To account for total nonresponse, we implemented a weighting class adjustment followed by a poststratification adjustment.

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 class.

The 2007 Child HCSDB weighting classes were defined on the basis of the stratification variables: TRICARE Prime enrollment status, age group, and geographic area. To avoid excessive variance inflation, we required that each weighting class have at least 20 eligible respondents and that the adjustment factor not exceed 4.

Nonresponse adjustment factors for the 2007 Child 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 grouped as follows according to their response status d:

d=1 Eligible — completed 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 and defined to be one for d=5 and defined as:

(2) $$A_{wc1}(c,d) = \frac{\sum_{i \in S(c)} W_s(c,i)}{\sum_{i \in S(c)} I_1(i) W_s(c,i) + \sum_{i \in S(c)} I_2(i) W_s(c,i) + \sum_{i \in S(c)} I_3 W_s(c,i)}$$ for d = 1, 2, 3

where:

$A_{wc1}(c,d)$ 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 0 otherwise,

$S(c)$ is the set of sample members belonging to weighting class c, and

$W_s(c,i)$ is the sampling weight (BWT) for the i-th 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:

(3) $W_{wc1}(c,d,i) = A_{wc1}(c,d)\, W_s(c,i)$

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 the loss of completed questionnaires from beneficiaries known to be eligible. For this adjustment, the weighting class c from the previous step 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:

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

By definition, all d=3 and d=5 ineligible beneficiaries "respond," so the d=3 and d=5adjustment factor is 1, or $A_{wc2}(c,3)$=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:

(5) $W_{wc2}(c,d,i) = A_{wc2}(c,d)\, W_{wc1}(c,d,i)$

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.

3. Poststratification

To minimize selecting more than one child per household, we assigned all children from a household to the same sampling stratum. Therefore, we needed to compensate for the resulting discrepancy in population totals by using poststratification for the 2007 HCSDB. Poststratification

adjustments forced the adjusted weight totals to the DEERS population totals for the specified population groups that formed the *poststrata*. We used DEERS data as of April 16, 2007 as poststratification values for certain variables. Like stratum variables, poststratum variables are also a combination of three key domain variables: enrollment group, age group, and geographic area (TNEX regions). After creating the cross-classification of the three poststrata variables, enrollment group, age group, and TNEX regions, an additional usual poststratification adjustment was implemented. To illustrate the use of poststratification, let g index poststrata, where g = 1, 2, ..., G. The poststratification adjustment factor for the g-th poststrata was defined as:

$$A_{ps}(g) = \frac{N(g)}{\sum_{h,i \in S(g)} W_{wc2}(h,i)} \tag{6}$$

where:

$N(g)$ is the total number of beneficiaries in the DEERS frame associated with the g-th post-stratum, and

$S(g)$ is the set of sample records that are found in the g-th poststratum.

The poststratified adjusted weight for the i-th sample record from the h-th design stratum and the g-th poststratum was then calculated as:

$$W_{ps}(g,h,i) = A_{ps}(g)\, W_{wc2}(h,i) \tag{7}$$

When summed over members of poststratum g, the poststratified weights now total $N(g)$. This poststratified weight is the final analysis weight used for all reporting and analysis.

4. Calculation of Jackknife Replicates

We constructed the 60 jackknife replicates as follows. First, the entire file of sampled beneficiaries was sorted according to stratification variables. Next, 60 mutually exclusive and exhaustive systematic sub-samples of the full sample was identified in the sorted file.[5] A jackknife replicate was then obtained by dropping one subsample from the full sample. By dropping each subsample in turn, the same number of different jackknife replicates as subsamples was defined. The entire weighting process as applied to the full sample was then applied separately to each of the jackknife replicates to produce a set of replicate weights for each record. A series of jackknife replicate weights (WRWT01-WRWT60) was then attached to each beneficiary record in the final database. Given jackknife replicate weights, WesVarPC® (Brick et al. 1996) can be used to construct jackknife replication variance estimates.

[5]With 60 replicates, further statistical analyses such as confidence intervals and hypothesis tests can be based on approximate normal distribution. Inferences with finite replicate number k are based on the student t distribution with k-1 degrees of freedom. Thus, with 60 replicates, normal approximation can be used in constructing confidence intervals or hypothesis testing.

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Chapter 4

Analysis

This chapter explains how the Child HCSDB variables were processed during the analysis phase of the project. It covers the procedure for calculating response rates, the method for estimating the variance of the statistics, significance tests, demographic adjustment, development of the dependent and independent variables for the analysis, and report production.

This year's results are being presented in an electronic format.

A. RESPONSE RATES

In this section, we present the procedures for response rate calculation along with a brief analysis of response rates for domains of interest. Response rates for the 2007 Child HCSDB were calculated in the same way as they were calculated for the 2007 Adult HCSDB. The procedure is based on the guidelines established by the Council of American Survey Research Organizations (CASRO 1982) in 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 2007 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 3.C, all sampled beneficiaries were completely classified into these four main (eight detailed) groups: Group 1 (G1-1 and G1-2), Group 2, Group 3, and Group 4 (G4-1 and G4-2):

- 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): ineligible
- Group 3 (G3-2): ineligible
- 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 size[1] ($\hat{N}_i$ for Group i, where i =1,2,3,4) for the four main response categories.

[1]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.

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

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

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

(3)

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

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

(4)

$$FRR = LRxCR \; and \; FRR_w = LR_w x CR_w$$

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

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 are often interested in getting unweighted measures. All tables include unweighted and weighted values under columns headed "Unweighted" and "Weighted", respectively. In the following, we focus on discussing unweighted response rates for

domains of interest. Table 4.1 includes response rates for the 2007 Child HCSDB as a whole, by enrollment status by age groups, and by TNEX regions.

- Overall: The overall unweighted response rate for the 2007 Child HCSDB was about 21 percent (which is found in Table 4.1 in the row of "Overall" under the column of "RR" in "Unweighted").
- Enrollment status: Conus nonenrollees had an unweighted response rate of 20 percent, which is less than the rate for children enrolled in Prime (23 percent).
- Age group: Unweighted response rates according to age groups are: Sponsors of children younger than 6 years old - 19 percent; between 6 and 12 years old - 22 percent; between 13 and 17 years old - 23 percent
- Geographic area: Unweighted response rates according to region are: North – 23 percent; South – 20 percent; West – 22 percent; and overseas – 18 percent.

TABLE 4.1

UNWEIGHTED AND WEIGHTED RESPONSE RATES OVERALL, BY ENROLLMENT GROUP, BY AGE GROUP, REGION AND TNEX REGION

		RR (%)	**RR_W** (%)
Overall		21.3	21.8
Enrollment Group	CONUS-Enrolled	22.7	22.7
	CONUS-Not enrolled	20.0	20.4
	OCONUS	17.8	17.5
Age Group	Younger than 6 years old	19.3	19.7
	Between 6 and 12 years old	21.5	21.9
	Between 13 and 17 years old	23.4	24.0
Region	CONUS	21.6	22.2
	OCONUS	17.8	17.5
TNEX Region	North	23.0	23.3
	South	20.4	21.0
	West	21.5	22.1
	Overseas	17.8	17.5

B. VARIANCE ESTIMATION

To calculate the standard errors (the squared roots of variances) of estimates for the 2007 HCSDB analyses, we used SUDAAN™ (Shah et al. 1996) and the Taylor series linearization method. For analysts who prefer a replication method, 60 replicate weights for jackknife replication are provided in the public use file. Here we describe variance estimation methods for the Taylor series linearization method and the jackknife replication method.

1. Taylor Series Linearization

MPR uses Taylor series linearization to produce standard errors for the estimates from the 2007 Child HCSDB. For most sample designs, including the 2007 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 the 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 sampling design and includes variables recording stratum and the analysis weight for each record. MPR uses SAS to make camera-ready tables for numerical results from SUDAAN. There is no restriction to the number of strata in SUDAAN, so stratification effects can be incorporated in calculating standard errors.

Some of the reported estimates are composite scale scores that are linear functions of individual estimates. The sampling variance for these scale estimates can be directly obtained from the usual design-based variance estimation formula by incorporating the covariance terms among individual items within the scale.

(5) Let

L=Number of strata
n_h=Number of beneficiaries within h-th stratum

and let $$\bar{y} = \frac{\sum_{h=1}^{L}\sum_{i=1}^{n_h} W_{hi} Y_{hi}}{\sum_{h}\sum_{i} W_{hi}}$$

denote an estimator of a composite scale where individual composite measure for beneficiary (*h*, *i*) consisting of *r* items is thus denoted as:

(6)

$$Y_{hi} = \sum_{j=1}^{r} X_{hi,j} / r \quad .$$

Then, a customary variance estimator of $\bar{y}$ is the sum of the item variances and covariances among item estimates:

(7)

$$v(\bar{y}) = \frac{1}{r^2}\left\{\sum_{j=1}^{r} v_j + \sum_{j \neq j'} \mathrm{cov}(\bar{x}_j, \bar{x}_{j'})\right\} \quad ,$$

where v_j is a variance estimator of $\bar{x}_j$.

All of the variance components can be obtained from the usual survey specific software such as SUDAAN and WesVarPC, which are described above.

2. Jackknife Replication

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.

a. Calculation Using Jackknife Replicates

A series of jackknife replicate weights are calculated and attached to each beneficiary record in the database. In jackknife replication, a prescribed number of replicates are generated by deleting selected cases from the full sample. Given jackknife replicate weights, WesVarPC® (Brick et al. 1996) can be used to produce variance estimates. WesVarPC allows jackknife variance estimation for two primary sampling units per stratum up to 100 strata, or up to 256 replicates without stratification. The 2007 HCSDB for children involves 21 strata. To use WesVarPC, we must modify the actual design to create appropriate replicates. The two options for doing this are to (1) form fewer than 256 replicates by ignoring stratification or (2) form replicates by assigning each unit to one of two pseudo primary sampling units (PSUs) within each of the 21 strata. For either option, the entire weighting process as described in the previous sections must be applied for each jackknife replicate.

To be consistent with the adult survey, we use option 1 to construct the jackknife replicates as follows. First, the entire file of sampled beneficiaries is sorted in sample selection order in which stratification variables are only used in the sorting process. Next, 60 mutually exclusive and exhaustive systematic subsamples[1] 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, the same number of different jackknife replicates as subsamples is defined. The entire weighting process as 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. Then, the series of jackknife replicate weights (WRWT01 – WRWT60) is attached to the final data in order to construct jackknife replication variance estimates.

b. Software for Jackknife Replication

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 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 mean, proportion, 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 the child TRICARE Consumer Report statistical testing is done to show whether values in the report cards are statistically different from external benchmarks.

[1]With 60 replicates, further statistical analyses such as confidence intervals and hypothesis tests can be based on an approximate normal distribution. Inferences with finite replicate numbers k are based on the student t distribution with k-1 degrees of freedom. Thus, with 60 replicates, normal approximation can be used in constructing confidence intervals or hypothesis testing.

The null hypothesis for this significance test is that a mean value is essentially equal to the benchmark, and the alternative is that a mean value is different from the benchmark. That is, we are testing:

$$H_0: \mu_1 = \mu_2 \quad \text{vs. } H_a: \mu_1 \neq \mu_2$$

For instance, μ_1 might represent the characteristic of interest for mature regions while μ_2 might represent the benchmark.

With large sample sizes, the estimator $\overline{y_1} - \overline{y_2}$ is approximately distributed as a normal distribution with mean zero and variance $\sigma^2_{\overline{y_1}-\overline{y_2}}$ 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 $\sigma^2_{\overline{y_1}-\overline{y_2}}$:

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

If $\overline{y_1}$ and $\overline{y_2}$ 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. With an external benchmark, the covariance can be assumed to be zero.

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 CAHPS, 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 within and across beneficiary and enrollment groups
- Permits testing the hypothesis that the difference in risk-adjusted scores between a region 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:

$$Y_{jkl} = \beta_{1l} A_{1l} + \beta_{2l} A_{2l} + \ldots + \beta_{7l} A_{7l} + \beta_{8l} P_l + \gamma_{1l} C_{1l} + \gamma_{2l} C_{2l} + \gamma_{3l} C_{3l} + \varepsilon_{jkl} ,$$

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 parent is in age group *q*, and 0 otherwise; A_l = age 18-24, A_2 = age 25-34, A_3 = age 35-44, A_4 = age 45-54, A_5 = age 55-64, A_6 = age 65-74, and A_7 = age 75 and older), P_l is health status, C_1 = age younger than 6, C_2 = age 6-12, C_3 = age 13-17. The subscripts *j*, *k and l* refer to the region, child beneficiary, and beneficiary or enrollment group, respectively.

Given 3 regions, the specifications that we use are:

$$\varepsilon_{jkl} = \delta_{0l} + \delta_{1l} R_{1l} + \delta_{2l} R_{2l} + \delta_{3l} R_{3l} + w_{jkl} ,$$

where R_i 's are regional dummy variables (R_{il} = 1 if the beneficiary is in region *i* and beneficiary group *l*, and 0 otherwise

For this specification, the adjusted mean of the dependent variable *Y* for region *i* can be obtained as:

$$\overline{y_i} = \hat{\delta}_0 + \hat{\delta}_i + \hat{\beta}_1 \hat{A}_1 + \hat{\beta}_2 \hat{A}_2 + \ldots + \hat{\beta}_7 \hat{A}_7 + \hat{\beta}_8 \hat{P} + \hat{\gamma}_1 \hat{C}_1 + \hat{\gamma}_2 \hat{C}_2 + \hat{\gamma}_3 \hat{C}_3 \ ,$$

where $\hat{\beta}_i$'s and $\hat{\gamma}_i$'s are estimated model parameters, $\hat{A}_i$'s and $\hat{C}_i$'s are weighted proportions of age group *i* among the total MHS, and $\hat{P}$ is the weighted MHS means of the variable *P.* For beneficiary group *l*, the adjusted regional value is:

$$\overline{y_{il}} = \hat{\delta}_{0l} + \hat{\delta}_{il} + \hat{\beta}_{1l} \hat{A} + \hat{\beta}_{2l} \hat{A}_{2l} + \ldots + \hat{\beta}_{7l} \hat{A}_{7l} + \hat{\beta}_{8l} \hat{P}_l + \hat{\gamma}_{1l} \hat{C}_{1l} + \hat{\gamma}_{2l} \hat{C}_{2l} + \hat{\gamma}_{3l} \hat{C}_{3l} \ ,$$

where $\hat{A}_{ql}$'s and $\hat{C}_{ql}$'s are weighted proportions of age group *q* in a beneficiary group.

Standard errors then can be estimated as the standard error of residuals for 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 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

$$y = \alpha + \beta_1 A_1 + \beta_2 A_7 + \ldots + \beta_7 A_7 + \beta_8 P + \gamma_1 C_1 + \gamma_2 C_2 + \gamma_3 C_3$$

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

$$\hat{y}_l = \hat{\alpha} + \hat{\beta}_1 \overline{A}_{1l} + \hat{\beta}_2 \overline{A}_{2l} + \ldots + \hat{\beta}_7 \overline{A}_{7l} + \hat{\beta}_8 \overline{P}_l + \hat{\gamma}_1 \overline{C}_{1l} + \hat{\gamma}_2 \overline{C}_{2l} + \hat{\gamma}_3 \overline{C}_{3l}$$

using the mean values of A, C and P for beneficiary group l.

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 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, and HCSDB composites.

1. Composites and Ratings

The preventive care composite is calculated as $P_i = \Sigma w_i r_i$, 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

$$S_i=(1/n_i)\ \Sigma(q_j/k_j),$$

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*. The value q_i and k_j are calculated using sampling weights. 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. 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, MPR produced charts and tables that are found in the Child HCSDB Annual Report. Beginning with the HCSDB in a SAS format, MPR 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.

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APPENDIX A

ANNOTATED QUESTIONNAIRE

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RCS: DD-HA(A) 1942

Health Care Survey of DoD Beneficiaries

Child Questionnaire

1I13-14

JULY 2007

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According to the Privacy Act of 1974 (Public Law 93-579), 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., Chapter 55; Section 706, Public Law 102-484; E.O. 9397.

Purpose: This survey helps 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: 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

All information that would let someone identify you or your family will be kept private. Providing information in this questionnaire is voluntary. There is no penalty if you choose not to respond. You may notice a number on the last page of this survey. This number is ONLY used to let us know if you returned your survey so we don't have to send you reminders.

SURVEY INSTRUCTIONS

Answer all 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:

☑ Yes ➔ ***Go to Question 42***
☐ No

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

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

SURVEY STARTS HERE

As an eligible TRICARE beneficiary, please complete this survey even if your child did not receive health care from a military facility.

Please answer the questions for the child whose name appears on the envelope. Please do not answer for any other children.

1. Are you an adult responsible for the child listed on the envelope? C07001

Percent of Responses*		
99.7%	1 ☐	Yes ➔ ***Go to Question 2***
0.3%	2 ☐	No ➔ Please give this questionnaire to a person responsible for that child.

2. By which of the following health care plans was your child covered in the last 12 months? MARK ALL THAT APPLY. C07002A-C07002K | See Note 1A

Military Health Plans

77.4%	A ☐	TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas)
18.4%	B ☐	TRICARE Extra or Standard (CHAMPUS)
1.4%	K ☐	TRICARE Reserve Select

Civilian Health Plans

1.9%	G ☐	Federal Employees Health Benefit Program (FEHBP)
2.3%	E ☐	Medicaid
2.5%	C ☐	A civilian HMO (such as Kaiser)
8.1%	D ☐	Other civilian health insurance (such as Blue Cross)
1.6%	F ☐	Uniformed Services Family Health Plan (USFHP)
0.3%	J ☐	Government health insurance from a country other than the US
2.8%	I ☐	My child was not covered by any health plan in the last 12 months
3.9%	H ☐	Not sure

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

3. Which health plan did you use for all or most of your child's health care in the last 12 months? MARK ONLY ONE.

C07003

Percent of Responses*		
		Military Health Plans
70.6%	1 ☐	TRICARE Prime (including TRICARE Prime Remote and TRICARE Overseas)
12.1%	3 ☐	TRICARE Extra or Standard (CHAMPUS)
1.1%	11 ☐	TRICARE Reserve Select
		Civilian Health Plans
1.4%	5 ☐	Federal Employees Health Benefit Program (FEHBP)
1.2%	6 ☐	Medicaid
2.1%	7 ☐	A civilian HMO (such as Kaiser)
6.0%	8 ☐	Other civilian health insurance (such as Blue Cross)
1.0%	9 ☐	Uniformed Services Family Health Plan (USFHP)
0.2%	10 ☐	Government health insurance from a country other than the US
	-6 ☐	My child did not use any health plan in the last 12 months
4.2%	-5 ☐	Not sure

For the remainder of this questionnaire, the term "health plan" refers to the plan you marked in Question 3.

4. In the last 12 months, how many months in a row was your child in this health plan?

C07004

Percent of Responses*		
1.5%	2 ☐	Less than 2 months
3.6%	3 ☐	2-6 months
94.9%	4 ☐	7-12 months
	-6 ☐	Not enrolled in a health plan in the last 12 months

5. In the last 12 months, what type of facility did your child go to most often for health care? Select the facility your child used most often.

C07005

Please mark only one answer

45.7%	1 ☐	A military facility –	This includes: Military clinic Military hospital PRIMUS clinic NAVCARE clinic
53.5%	2 ☐	A civilian facility –	This includes: Civilian doctor's office Civilian clinic Hospital Civilian TRICARE contractor
0.7%	3 ☐	Uniformed Services Family Health Plan Facility (USFHP)	
	-6 ☐	My child went to none of the listed types of facilities in the last 12 months	

YOUR CHILD'S PERSONAL DOCTOR OR NURSE

The next questions ask about your child's health care. Do not include care your child got when he or she stayed overnight in a hospital. Do not include the times your child went for dental care visits.

6. A personal doctor or nurse is the health provider who knows your child best. This can be a general doctor, a specialist doctor, a nurse practitioner, or a physician assistant.

Do you have one person you think of as your child's personal doctor or nurse? If your child has more than one personal doctor or nurse, choose the person your child sees most often.

C07006
See Note 1

Percent of Responses*		
72.3%	1 ☐	Yes
27.7%	2 ☐	No ➔ *Go to Question 9*

7. 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 child's personal doctor or nurse?

C07007
See Note 1

0.2%	0 ☐	0 Worst personal doctor or nurse possible
0.2%	1 ☐	1
0.4%	2 ☐	2
0.7%	3 ☐	3
1.0%	4 ☐	4
4.4%	5 ☐	5
4.1%	6 ☐	6
11.2%	7 ☐	7
23.2%	8 ☐	8
21.6%	9 ☐	9
33.1%	10 ☐	10 Best personal doctor or nurse possible
	-6 ☐	My child doesn't have a personal doctor or nurse

8. Did you have the same personal doctor or nurse before you joined this health plan?

C07008
See Notes 1 and 2

17.4%	1 ☐	Yes ➔ *Go to Question 10*
82.6%	2 ☐	No

9. Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?

C07009
See Note 2

13.2%	1 ☐	A big problem
25.4%	2 ☐	A small problem
61.4%	3 ☐	Not a problem

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

10. In the last 12 months, did your child's personal doctor or nurse talk with you about how your child is feeling, growing or behaving?

C07010

Percent of Responses*		
66.7%	1 ☐	Yes
33.3%	2 ☐	No

11. Does your child have any medical, behavioral or other health conditions that have lasted for more than 3 months?

C07011 — See Note 3

29.2%	1 ☐	Yes
70.8%	2 ☐	No ➔ *Go to Question 14*

12. Does your child's personal doctor or nurse understand how these medical, behavioral or other health conditions affect your child's day-to-day life?

C07012 — See Note 3

83.7%	1 ☐	Yes
16.3%	2 ☐	No

13. Does your child's personal doctor or nurse understand how your child's medical, behavioral or other health conditions affect your family's day-to-day life?

C07013 — See Note 3

80.1%	1 ☐	Yes
19.9%	2 ☐	No

GETTING HEALTH CARE FROM A SPECIALIST

When you answer the next questions, do not include dental visits.

14. Specialists are doctors like surgeons, heart doctors, allergy doctors, skin doctors, psychologists, psychiatrists and others who specialize in one area of health care.

In the last 12 months, did you or your doctor think your child needed to see a specialist?

C07014 — See Note 4

Percent of Responses*		
32.8%	1 ☐	Yes
67.2%	2 ☐	No ➔ *Go to Question 16*

15. In the last 12 months, how much of a problem, if any, was it to see a specialist that your child needed to see?

C07015 — See Note 4

14.4%	1 ☐	A big problem
23.4%	2 ☐	A small problem
62.2%	3 ☐	Not a problem
	-6 ☐	My child didn't need to see a specialist in the last 12 months

16. In the last 12 months, did your child see a specialist?

C07016 — See Note 5

Percent of Responses*		
31.1%	1 ☐	Yes
68.9%	2 ☐	No ➔ *Go to Question 19*

17. We want to know your rating of the specialist your child 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 your child's specialist?

C07017 — See Note 5

0.8%	0 ☐	0	Worst specialist possible
0.7%	1 ☐	1	
0.8%	2 ☐	2	
1.2%	3 ☐	3	
1.5%	4 ☐	4	
6.0%	5 ☐	5	
5.0%	6 ☐	6	
9.2%	7 ☐	7	
20.5%	8 ☐	8	
21.2%	9 ☐	9	
33.2%	10 ☐	10	Best specialist possible
	-6 ☐		My child didn't see a specialist in the last 12 months

18. In the last 12 months, was the specialist your child saw most often the same doctor as your child's personal doctor?

C07018 — See Notes 5 and 6

10.8%	1 ☐	Yes
89.2%	2 ☐	No
	-6 ☐	My child doesn't have a personal doctor or didn't need to see a specialist in the last 12 months ➔ *Go to Question 23*

19. In the last 12 months, did you or a doctor think that your child needed to see a mental health specialist, like a counselor, psychologist, psychiatrist or social worker?

C07019 — See Note 6

20.8%	1 ☐	Yes
79.2%	2 ☐	No

20. In the last 12 months, did your child see a mental health specialist, like a counselor, psychologist, psychiatrist, or social worker?

C07020 — See Notes 6 and 7

19.9%	1 ☐	Yes ➔ *Go to Question 22*
80.1%	2 ☐	No

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

21. Why did your child not see a mental health specialist? MARK ALL THAT APPLY.

Percent of Responses*		
49.9%	A ☐	You did not think that your child needed to visit a specialist
6.7%	B ☐	Your child's personal doctor or nurse was able to help with the problem
1.5%	C ☐	You were not sure where locate a specialist in your child's health plan or network
1.0%	D ☐	You did not have enough specialists to choose from for your child
1.0%	E ☐	The specialists you had to choose from for your child were too far away
1.2%	F ☐	The specialist you wanted did not belong to your child's health plan or network
1.2%	G ☐	You could not get an appointment for your child at a time that was convenient
0.6%	H ☐	The specialist you wanted was not taking new patients
12.3%	I ☐	Other

C07021A-C07021I | See Notes 6 and 7

➔ *Go to Question 23*

22. In the last 12 months, how often did your child get the care that he or she needed from the mental health specialist?

C07022 | See Notes 6 and 7

5.2%	1 ☐	Never
21.7%	2 ☐	Sometimes
22.9%	3 ☐	Usually
50.2%	4 ☐	Always
	-6 ☐	My child did not see a mental health specialist in the last 12 months

YOUR CHILD'S HEALTH CARE IN THE LAST 12 MONTHS

A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else your child would see for health care.

23. In the last 12 months, did you call a doctor's office or clinic during regular office hours to get help or advice for your child?

C07023 | See Note 8

Percent of Responses*		
55.4%	1 ☐	Yes
44.6%	2 ☐	No ➔ *Go to Question 25*

24. In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed for your child?

C07024 | See Note 8

3.2%	1 ☐	Never
14.2%	2 ☐	Sometimes
25.3%	3 ☐	Usually
57.3%	4 ☐	Always
	-6 ☐	I didn't call for help or advice for my child during regular office hours in the last 12 months

25. In the last 12 months, did your child have an illness, injury or condition that needed care right away in a clinic, emergency room, or doctor's office?

C07025 | See Note 9

Percent of Responses*		
45.0%	1 ☐	Yes
55.0%	2 ☐	No ➔ *Go to Question 27*

26. In the last 12 months, when your child needed care right away for an illness, injury, or condition, how often did your child get care as soon as you wanted?

C07026 | See Note 9

5.9%	1 ☐	Never
13.3%	2 ☐	Sometimes
21.3%	3 ☐	Usually
59.5%	4 ☐	Always
	-6 ☐	My child didn't need care right away for an illness, injury, or condition in the last 12 months

27. A health provider could be a general doctor, a specialist doctor, a nurse practitioner, a physician assistant, a nurse, or anyone else your child would see for health care.

In the last 12 months, not counting the times you needed health care right away, did you make any appointments for your child with a doctor or other health provider for health care?

C07027 | See Note 10

82.3%	1 ☐	Yes
17.7%	2 ☐	No ➔ *Go to Question 29*

28. In the last 12 months, not counting times you needed health care right away, how often did your child get an appointment for health care as soon as you wanted?

C07028 | See Note 10

4.2%	1 ☐	Never
16.2%	2 ☐	Sometimes
32.9%	3 ☐	Usually
46.7%	4 ☐	Always
	-6 ☐	My child didn't need an appointment in the last 12 months

29. In the last 12 months, how many times did your child go to an emergency room?

C07029

70.1%	1 ☐	None
18.8%	2 ☐	1
7.0%	3 ☐	2
2.2%	4 ☐	3
1.2%	5 ☐	4
0.5%	6 ☐	5 to 9
0.1%	7 ☐	10 or more

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

30. In the last 12 months (not counting times your child went to an emergency room), how many times did your child go to a doctor's office or clinic?

C07030 | See Note 11

Percent of Responses*			
9.8%	1 ☐	None ➔	*Go to Question 51*
15.6%	2 ☐	1	
21.0%	3 ☐	2	
17.6%	4 ☐	3	
14.7%	5 ☐	4	
17.0%	6 ☐	5 to 9	
4.2%	7 ☐	10 or more	

31. In the last 12 months, did you or a doctor believe your child needed any care, tests, or treatment?

C07031 | See Notes 11 and 12

61.7%	1 ☐	Yes	
38.3%	2 ☐	No ➔	*Go to Question 33*

32. In the last 12 months, how much of a problem, if any, was it to get the care, tests or treatment you or a doctor believed necessary?

C07032 | See Notes 11 and 12

4.9%	1 ☐	A big problem
15.4%	2 ☐	A small problem
79.7%	3 ☐	Not a problem
	-6 ☐	My child had no visits in the last 12 months

33. In the last 12 months, did you need approval from your child's health plan for any care, tests, or treatment?

C07033 | See Notes 11 and 13

27.9%	1 ☐	Yes	
72.1%	2 ☐	No ➔	*Go to Question 35*

34. In the last 12 months, how much of a problem, if any, were delays in health care while you waited for approval from your child's health plan?

C07034 | See Notes 11 and 13

13.3%	1 ☐	A big problem
23.1%	2 ☐	A small problem
63.5%	3 ☐	Not a problem
	-6 ☐	My child had no visits in the last 12 months

35. In the last 12 months, how often was your child taken to the exam room within 15 minutes of his or her appointment?

C07035 | See Note 11

16.2%	1 ☐	Never
23.2%	2 ☐	Sometimes
38.0%	3 ☐	Usually
22.6%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months

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

36. In the last 12 months, how often did office staff at your child's doctor's office or clinic treat you and your child with courtesy and respect?

C07036 | See Note 11

Percent of Responses*		
0.7%	1 ☐	Never
5.7%	2 ☐	Sometimes
20.9%	3 ☐	Usually
72.7%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months

37. In the last 12 months, how often were office staff at your child's doctor's office or clinic as helpful as you thought they should be?

C07037 | See Note 11

1.6%	1 ☐	Never
9.9%	2 ☐	Sometimes
33.0%	3 ☐	Usually
55.5%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months

38. In the last 12 months, how often did your child's doctors or other health providers listen carefully to you?

C07038 | See Note 11

1.0%	1 ☐	Never
8.9%	2 ☐	Sometimes
28.8%	3 ☐	Usually
61.3%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months

39. In the last 12 months, how often did your child's doctors or other health providers explain things in a way you could understand?

C07039 | See Note 11

0.4%	1 ☐	Never
5.0%	2 ☐	Sometimes
24.1%	3 ☐	Usually
70.5%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months

40. In the last 12 months, how often did your child's doctors or other health providers show respect for what you had to say?

C07040 | See Note 11

0.8%	1 ☐	Never
7.4%	2 ☐	Sometimes
25.2%	3 ☐	Usually
66.6%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months

41. Is your child able to talk with doctors about his or her health care?

C07041 | See Notes 11 and 14

73.6%	1 ☐	Yes	
26.4%	2 ☐	No ➔	*Go to Question 43*
	-6 ☐	My child had no visits in the last 12 months	

42. In the last 12 months, how often did doctors or other health providers explain things in a way your child could understand?

C07042 | See Notes 11 and 14

Percent of Responses*		
2.5%	1 ☐	Never
10.3%	2 ☐	Sometimes
33.6%	3 ☐	Usually
53.5%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months or my child is not old enough to understand

43. In the last 12 months, how often did doctors or other health providers spend enough time with your child?

C07043 | See Note 11

2.0%	1 ☐	Never
10.4%	2 ☐	Sometimes
35.6%	3 ☐	Usually
51.9%	4 ☐	Always
	-6 ☐	My child had no visits in the last 12 months

44. In the last 12 months, did you have any questions or concerns about your child's health or health care?

C07044 | See Notes 11 and 15

51.9%	1 ☐	Yes
48.1%	2 ☐	No ➔ *Go to Question 48*

45. In the last 12 months, how often did your child's doctors or other health providers make it easy for you to discuss your questions or concerns?

C07045 | See Notes 11 and 15

2.7%	1 ☐	Never
13.8%	2 ☐	Sometimes
32.0%	3 ☐	Usually
51.5%	4 ☐	Always

46. In the last 12 months, how often did you get the specific information you needed from your child's doctors or other health providers?

C07046 | See Notes 11 and 15

2.2%	1 ☐	Never
15.4%	2 ☐	Sometimes
35.7%	3 ☐	Usually
46.7%	4 ☐	Always

47. In the last 12 months, how often did you have your questions answered by your child's doctors or other health providers?

C07047 | See Notes 11 and 15

1.1%	1 ☐	Never
13.3%	2 ☐	Sometimes
33.2%	3 ☐	Usually
52.5%	4 ☐	Always

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

We want to know how you, your child's doctors and other health providers make decisions about your child's health care.

48. In the last 12 months, were any decisions made about your child's health care?

C07048 | See Notes 11 and 16

Percent of Responses*		
47.4%	1 ☐	Yes
52.6%	2 ☐	No ➔ *Go to Question 50*

49. When decisions were made in the last 12 months, how often did your child's doctors or other health providers involve you as much as you wanted?

C07049 | See Notes 11 and 16

2.0%	1 ☐	Never
6.7%	2 ☐	Sometimes
20.7%	3 ☐	Usually
70.6%	4 ☐	Always

50. 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 child's health care in the last 12 months?

C07050 | See Note 11

0.3%	0 ☐	0	Worst health care possible
0.4%	1 ☐	1	
0.5%	2 ☐	2	
1.1%	3 ☐	3	
1.5%	4 ☐	4	
4.5%	5 ☐	5	
4.6%	6 ☐	6	
11.0%	7 ☐	7	
23.2%	8 ☐	8	
24.6%	9 ☐	9	
28.3%	10 ☐	10	Best health care possible
	-6 ☐		My child had no visits in the last 12 months

SPECIALIZED SERVICES

51. In the last 12 months, did your child get care from more than one kind of health care provider or use more than one kind of health care service?

C07051 | See Note 17

Percent of Responses*		
36.5%	1 ☐	Yes
63.5%	2 ☐	No ➔ *Go to Question 53*

52. In the last 12 months, did anyone from your child's health plan, doctor's office or clinic help coordinate your child's care among these different providers or services?

C07052 | See Note 17

57.1%	1 ☐	Yes
42.9%	2 ☐	No

YOUR CHILD'S HEALTH PLAN

The next questions ask about your experience with your child's health plan. By your child's health plan, we mean the plan you marked in Question 3.

53. In the last 12 months, did you look for any information about how your child's health plan works in written material or on the Internet?

C07053 — See Note 18

Percent of Responses*			
31.0%	1 ☐	Yes	
69.0%	2 ☐	No	➔ *Go to Question 55*

54. In the last 12 months, how much of a problem, if any, was it to find or understand this information?

C07054 — See Note 18

10.8%	1 ☐	A big problem
35.7%	2 ☐	A small problem
53.5%	3 ☐	Not a problem
	-6 ☐	I didn't look for information from my child's health plan in the last 12 months

55. In the last 12 months, did you call your health plan's customer service to get information or help for your child?

C07055 — See Note 19

25.7%	1 ☐	Yes	
74.3%	2 ☐	No	➔ *Go to Question 57*

56. In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your child's health plan's customer service?

C07056 — See Note 19

16.7%	1 ☐	A big problem
30.1%	2 ☐	A small problem
53.2%	3 ☐	Not a problem
	-6 ☐	I didn't call my child's health plan's customer service in the last 12 months

57. In the last 12 months, did you have to fill out any paperwork for your child's health plan?

C07057 — See Note 20

31.4%	1 ☐	Yes	
68.6%	2 ☐	No	➔ *Go to Question 59*

58. In the last 12 months, how much of a problem, if any, did you have with paperwork for your child's health plan?

C07058 — See Note 20

Percent of Responses*		
6.0%	1 ☐	A big problem
19.0%	2 ☐	A small problem
75.0%	3 ☐	Not a problem
	-6 ☐	I didn't have any experience with paperwork for my child's health plan in the last 12 months

59. 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 child's health plan?

C07059

0.6%	0 ☐	0	Worst health plan possible
0.5%	1 ☐	1	
0.8%	2 ☐	2	
1.5%	3 ☐	3	
1.9%	4 ☐	4	
7.3%	5 ☐	5	
6.3%	6 ☐	6	
13.0%	7 ☐	7	
23.2%	8 ☐	8	
22.1%	9 ☐	9	
22.8%	10 ☐	10	Best health plan possible

PRESCRIPTION MEDICATIONS

60. In the last 12 months, did your child get a prescription for medicine or did you refill a prescription for your child?

C07060 — See Note 21

Percent of Responses*			
71.5%	1 ☐	Yes	
28.5%	2 ☐	No	➔ *Go to Question 64*

61. In the last 12 months, did your child get a prescription for medicine to help with his/her emotions and behaviors?

C07061 — See Note 21

10.1%	1 ☐	Yes
89.9%	2 ☐	No

62. In the last 12 months, how much of a problem, if any, was it to get your child's prescription medicine?

C07062 — See Note 21

3.1%	1 ☐	A big problem	
12.1%	2 ☐	A small problem	
84.8%	3 ☐	Not a problem	➔ *Go to Question 64*

63. Did anyone from your child's health plan, doctor's office or clinic help you with this problem?

C07063 — See Note 21

32.4%	1 ☐	Yes
67.6%	2 ☐	No

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

ABOUT YOUR CHILD AND YOU

Information in this section will be used to study how different kinds of people view our health care system. This information will not be used to identify you or your child personally.

64. In general, how would you rate your child's overall health now?

C07064

Percent of Responses*		
54.3%	5 ☐	Excellent
33.3%	4 ☐	Very good
10.3%	3 ☐	Good
1.9%	2 ☐	Fair
0.3%	1 ☐	Poor

65. Does your child currently need or use medicine prescribed by a doctor (other than vitamins)?

C07065 — See Note 22

30.5%	1 ☐	Yes
69.5%	2 ☐	No ➔ *Go to Question 68*

66. Is this because of any medical, behavioral or other health condition?

C07066 — See Note 22

74.7%	1 ☐	Yes
25.3%	2 ☐	No ➔ *Go to Question 68*

67. Is this a condition that has lasted or is expected to last for at least 12 months?

C07067 — See Note 22

87.9%	1 ☐	Yes
12.1%	2 ☐	No

68. Does your child need or use more medical care, mental health or educational services than is usual for most children of the same age?

C07068 — See Note 23

12.2%	1 ☐	Yes
87.8%	2 ☐	No ➔ *Go to Question 71*

69. Is this because of any medical, behavioral or other health condition?

C07069 — See Note 23

91.2%	1 ☐	Yes
8.8%	2 ☐	No ➔ *Go to Question 71*

70. Is this a condition that has lasted or is expected to last for at least 12 months?

C07070 — See Note 23

95.8%	1 ☐	Yes
4.2%	2 ☐	No

71. Is your child limited or prevented in any way in his or her ability to do the things most children of the same age can do?

C07071 — See Note 24

Percent of Responses*		
6.7%	1 ☐	Yes
93.3%	2 ☐	No ➔ *Go to Question 74*

72. Is this because of any medical, behavioral or other health condition?

C07072 — See Note 24

90.7%	1 ☐	Yes
9.3%	2 ☐	No ➔ *Go to Question 74*

73. Is this a condition that has lasted or is expected to last for at least 12 months?

C07073 — See Note 24

95.9%	1 ☐	Yes
4.1%	2 ☐	No

74. Does your child need or get special therapy, such as physical, occupational or speech therapy?

C07074 — See Note 25

7.1%	1 ☐	Yes
92.9%	2 ☐	No ➔ *Go to Question 77*

75. Is this because of any medical, behavioral or other health condition?

C07075 — See Note 25

71.6%	1 ☐	Yes
28.4%	2 ☐	No ➔ *Go to Question 77*

76. Is this a condition that has lasted or is expected to last for at least 12 months?

C07076 — See Note 25

90.8%	1 ☐	Yes
9.2%	2 ☐	No

77. Does your child have any kind of emotional, developmental or behavioral problem for which he or she needs or gets treatment or counseling?

C07077 — See Note 26

11.3%	1 ☐	Yes
88.7%	2 ☐	No ➔ *Go to Question 79*

78. Has this problem lasted or is it expected to last for at least 12 months?

C07078 — See Note 26

81.1%	1 ☐	Yes
18.9%	2 ☐	No

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

79. Have you ever been told by a doctor, nurse or other health professional that your child has any of the following emotional, developmental, or behavioral problems? MARK ALL THAT APPLY.

C07079A-C07079H

Percent of Responses*		
4.0%	A ☐	Anxiety problems
8.1%	B ☐	Attention problems
2.7%	C ☐	Conduct problems
3.2%	D ☐	Depression
2.8%	E ☐	Developmental delay or mental retardation
4.9%	F ☐	Learning problems or disabilities
2.2%	G ☐	Sleep disturbance
8.0%	H ☐	Other

80. Does your child receive any services under the Program for Persons with Disabilities (PFPWD) or Extended Care Health Option (its replacement, ECHO), Individual Case Management Program for Persons with Extraordinary Conditions (ICMP-PEC), or Custodial Care Transition Policy (CCTP)? MARK ALL THAT APPLY.

C07080A-C07080D

0.3%	A ☐	PFPWD or ECHO
0.2%	B ☐	ICMP-PEC
0.1%	C ☐	CCTP
87.9%	D ☐	None of these programs

81. Does your child have a physical, emotional, developmental or intellectual disorder that requires care from a medical specialist, therapy, education, training or counseling?

C07081

See Note 27

9.4%	1 ☐	Yes
90.6%	2 ☐	No ➔ *Go to Question 83*

82. Is your family enrolled in the Exceptional Family Member Program (EFMP)?

C07082

See Note 27

27.5%	1 ☐	Yes
72.5%	2 ☐	No

83. How tall is your child without his/her shoes on?

Directions: Write your child's height in the shaded blank boxes. Check the box next to the matching number.

C07083F, C07083I

Example:

Height		Height	
Feet	Inches	Feet	Inches
4	6		
☐ 1	☐ 0	☐ 1	☐ 0
☐ 2	☐ 1	☐ 2	☐ 1
☐ 3	☐ 2	☐ 3	☐ 2
☑ 4	☐ 3	☐ 4	☐ 3
☐ 5	☐ 4	☐ 5	☐ 4
☐ 6	☐ 5	☐ 6	☐ 5
☐ 7	☑ 6	☐ 7	☐ 6
	☐ 7		☐ 7
	☐ 8		☐ 8
	☐ 9		☐ 9
	☐ 10		☐ 10
	☐ 11		☐ 11

Percent of Responses* 93.0%

84. How much does your child weigh without his/her shoes on?

C07084

Directions: Write your child's weight in the shaded blank boxes. Check the box next to the matching number.

Example:

Weight			Weight		
Pounds			Pounds		
0	6	0			
☑ 0	☐ 0	☑ 0	☐ 0	☐ 0	☐ 0
☐ 1	☐ 1	☐ 1	☐ 1	☐ 1	☐ 1
☐ 2	☐ 2	☐ 2	☐ 2	☐ 2	☐ 2
☐ 3	☐ 3	☐ 3	☐ 3	☐ 3	☐ 3
	☐ 4	☐ 4		☐ 4	☐ 4
	☐ 5	☐ 5		☐ 5	☐ 5
	☑ 6	☐ 6		☐ 6	☐ 6
	☐ 7	☐ 7		☐ 7	☐ 7
	☐ 8	☐ 8		☐ 8	☐ 8
	☐ 9	☐ 9		☐ 9	☐ 9

Percent of Responses* 95.1%

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

85. How old is your child? C07085

Directions: Write your child's age in the shaded blank boxes. Check the box next to the matching number.

Example:

Age	
1	0
☐ 0	☑ 0
☑ 1	☐ 1
	☐ 2
	☐ 3
	☐ 4
	☐ 5
	☐ 6
	☐ 7
	☐ 8
	☐ 9

Age	
☐ 0	☐ 0
☐ 1	☐ 1
	☐ 2
	☐ 3
	☐ 4
	☐ 5
	☐ 6
	☐ 7
	☐ 8
	☐ 9

*Percent of Responses** *95.6%*

86. Is your child male or female? C07086

Percent of Responses*		
50.6%	1 ☐	Male
49.4%	2 ☐	Female

87. Is your child of Hispanic or Latino origin or descent? (Mark "NO" if not Spanish/Hispanic/Latino.)

86.5%	A ☐	No, not Spanish, Hispanic, or Latino
5.5%	B ☐	Yes, Mexican, Mexican American, Chicano
3.3%	C ☐	Yes, Puerto Rican
0.4%	D ☐	Yes, Cuban
5.2%	E ☐	Yes, other Spanish, Hispanic, or Latino

C07087, C07087A-C07087E

88. What is your child's race? (Mark ONE OR MORE races to indicate what you consider your child to be.) C07088A-C07088E

75.9%	A ☐	White
14.7%	B ☐	Black or African-American
2.2%	C ☐	American Indian or Alaska Native
9.1%	D ☐	Asian (e.g., Asian Indian, Chinese, Filipino, Japanese, Korean, Vietnamese)
1.4%	E ☐	Native Hawaiian or other Pacific Islander (e.g., Samoan, Guamanian, or Chamorro)

89. What is your age now? C07089

7.3%	1 ☐	Under 18
3.6%	2 ☐	18 to 24
23.3%	3 ☐	25 to 34
39.7%	4 ☐	35 to 44
20.2%	5 ☐	45 to 54
4.4%	6 ☐	55 to 64
1.2%	7 ☐	65 to 74
0.2%	8 ☐	75 or older

90. Are you male or female? C07090

Percent of Responses*		
27.6%	1 ☐	Male
72.4%	2 ☐	Female

91. What is the highest grade or level of school that you have completed? C07091

0.4%	1 ☐	8th grade or less
0.8%	2 ☐	Some high school, but did not graduate
13.3%	3 ☐	High school graduate or GED
44.5%	4 ☐	Some college or 2-year degree
20.3%	5 ☐	4-year college graduate
20.8%	6 ☐	More than 4-year college degree

92. How are you related to the policyholder? C07092

31.5%	1 ☐	I am the policyholder
62.5%	2 ☐	Spouse or partner of policyholder
0.8%	3 ☐	Child of policyholder
1.6%	4 ☐	Other family member
0.1%	5 ☐	Friend
3.5%	6 ☐	Someone else (please print):

_____

93. How are you related to the child? C07093

97.2%	1 ☐	Mother or father
1.5%	2 ☐	Grandparent
0.2%	3 ☐	Aunt or uncle
0.0%	4 ☐	Older sibling
0.2%	5 ☐	Other relative
1.0%	6 ☐	Legal guardian

THANK YOU

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)
c/o Synovate Survey Processing Center
PO Box 5030
Chicago, IL 60680-4138

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

Questions about the survey?

Email: **4child@synovate.net**

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 in 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**

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APPENDIX B

CHILD SURVEY FIELDING MATERIALS

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Sample Notification Letter

June 1, 2007

12345678 1I13 7410 401
TO THE PARENT OR GUARDIAN OF
DAVE BRYANT JR
222 S. RIVERSIDE DRIVE
CHICAGO, IL 60606-5809

Dear Parent/Guardian:

We need your help! Your child was randomly selected to represent your household to participate in the *2007 Health Care Survey of DoD Beneficiaries – Child Questionnaire.* The survey will be mailed to you on July 2, 2007 **or** you may complete it now at our Web site.

The Web site is: **http://www.synovate.net/dod4child.** At the Web site, you will be asked to enter your **Password: 999999**

The survey asks for your opinions on a variety of topics related to your child's health care. **Even if your child did not receive health care from a military facility, we still ask that you complete the survey.** This information will assist us in the development of policies and programs to improve the health care services for the entire DoD community. While your participation is desired, it is entirely voluntary.

This is your opportunity to impact directly the formulation of government health care policies that may affect your child and I urge you to share your perspective on these important issues. I assure you that your responses will be kept confidential. No information about you or your child as an individual will ever be released.

If your address on this letter is incorrect, if you have questions pertaining to the survey, or if you cannot access the Web site, please contact the Survey Processing Center. You can reach them by email at 4child@synovate.net; by calling 1-877-236-2390; or sending a fax to 1-800-409-7681. If you do not wish to participate or to receive reminders about this survey, you may remove yourself from the mailing list by contacting the Survey Processing Center. Be sure to include the 8-digit number above your address on this letter in all communications.

Thank you for your time and assistance in this very important effort. For more information about the Health Care Survey of Department of Defense Beneficiaries, go to the TRICARE Web site at http://www.tricare.osd.mil.

Sincerely,

Michael R. Peterson, DVM, MPH, DrPH
Director
Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

Sample First Survey Cover Letter

July 2, 2007

12345678 1I13 7411 401
TO THE PARENT OR GUARDIAN OF
DAVE BRYANT JR
222 S. RIVERSIDE DRIVE
CHICAGO, IL 60606-5809

Dear Parent/Guardian:

You have been selected to comment on the healthcare experiences of your child in the *2007 Health Care Survey of DoD Beneficiaries – Child Questionnaire.* The survey is included and is also available at the Web site below. **If you have already completed the survey for your child online, please disregard this letter**. The survey asks for your opinions on a variety of topics related to your child's health care. **Even if your child did not receive health care from a military facility, we still ask that you complete the survey.** This information will assist us in the development of policies and programs to improve the health care services for the entire DoD community. While your participation is desired, it is entirely voluntary.

I urge you to share your perspective on these important issues. This is your opportunity to impact directly the formulation of government health care policies. I assure you that your responses will be kept confidential. No information about you or your child as an individual will ever be released.

Please take the time today to either complete and return the enclosed survey or access the Web survey by going to this Web site:

http://www.synovate.net/dod4child

At the Web site, you will be asked to enter your **Password: 999999**

If your address on this letter is incorrect, if you cannot access the Web site, or if you have questions pertaining to the survey, please contact the Survey Processing Center. You can reach them by email at 4child@synovate.net; by calling 1-877-236-2390; or sending a fax to 1-800-409-7681. If you do not wish to participate or to receive reminders about this survey, you may remove yourself from the mailing list by contacting the Survey Processing Center. Be sure to include the 8-digit number above your address on this letter in all communications.

Thank you for your time and assistance in this very important effort. For more information about the Health Care Survey of Department of Defense Beneficiaries, go to the TRICARE Web site at http://www.tricare.osd.mil.

Sincerely,

Michael R. Peterson, DVM, MPH, DrPH
Director
Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

Sample Reminder/Thank You Postcard

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
HEALTH AFFAIRS/TRICARE MANAGEMENT ACTIVITY
SURVEY PROCESSING CENTER
C/O SYNOVATE
PO BOX 5030
CHICAGO, IL 60680

87654321 1I13 7419 401
TO THE PARENT OR GUARDIAN OF
DAVE BRYANT JR
222 S. RIVERSIDE DR.
APARTMENT 5
WHEATON, IL 60187

WE NEED YOUR HELP!

HELLO! 1I13-04

Recently, we mailed you the *2007 Health Care Survey of DoD Beneficiaries – Child Questionnaire*, a Department of Defense sponsored survey. Your child is among only a few randomly selected individuals to receive this survey and we have not heard from you yet! As an eligible military beneficiary, we want to know about the health care services your child has received within military and civilian facilities. **Even if your child did not receive health care from a military facility, please complete the survey for them.**

Taking part in this survey is voluntary and the information you provide us is kept private.

If you did not receive the survey or if you need another copy, please call toll free 1-877-236-2390 (within the U.S.) or email us at **4child@synovate.net** along with your 8-digit number above your address.

If you have already sent your child's survey or completed it online, please ignore this message.

THANK YOU!

Michael R. Peterson, DVM, MPH, DrPH
Director, Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

Sample Second Survey Cover Letter

August 1, 2007

12345678 1I13 7412 401
TO THE PARENT OR GUARDIAN OF
DAVE BRYANT JR
222 S. RIVERSIDE DRIVE
CHICAGO, IL 60606-5809

Dear Parent/Guardian:

You have been selected to comment on the health care experiences of your child in the *2007 Health Care Survey of DoD Beneficiaries – Child Questionnaire.* The survey is included and is also available at the Web site below. The survey asks for your opinions on a variety of topics related to your child's health care. This information will assist us in the development of policies and programs to improve the health care services for the entire DoD community. While your participation is desired, it is entirely voluntary. **If you have already mailed in the survey for your child or completed it online, please disregard this letter and survey.**

I urge you to share your perspective on these important issues. This is your opportunity to impact directly the formulation of government health care policies. I assure you that your responses will be kept confidential. No information about you or your child as an individual will ever be released.

Please take the time today to either complete and return the enclosed survey or access the Web survey by going to this Web site:

http://www.synovate.net/dod3child

At the Web site, you will be asked to enter your **Password: 999999**

If your address on this letter is incorrect, if you cannot access the Web site, or if you have questions pertaining to the survey, please contact the Survey Processing Center. You can reach them by email at dod-child@synovate.net; by calling 1-877-236-2390, or sending a fax to 1-800-409-7681. If you do not wish to participate or to receive reminders about this survey, you may remove yourself from the mailing list by contacting the Survey Processing Center. Be sure to include the 8-digit number above your address on this letter in all communications.

Thank you for your time and assistance in this very important effort. For more information about the Health Care Survey of Department of Defense Beneficiaries, go to the TRICARE Web site at http://www.tricare.osd.mil.

Sincerely,

Michael R. Peterson, DVM, MPH, DrPH
Director
Office of the Assistant Secretary of Defense (Health Affairs)
TRICARE Management Activity/Health Program Analysis and Evaluation Directorate

APPENDIX C

DATA PROCESSING ARCHITECTURE

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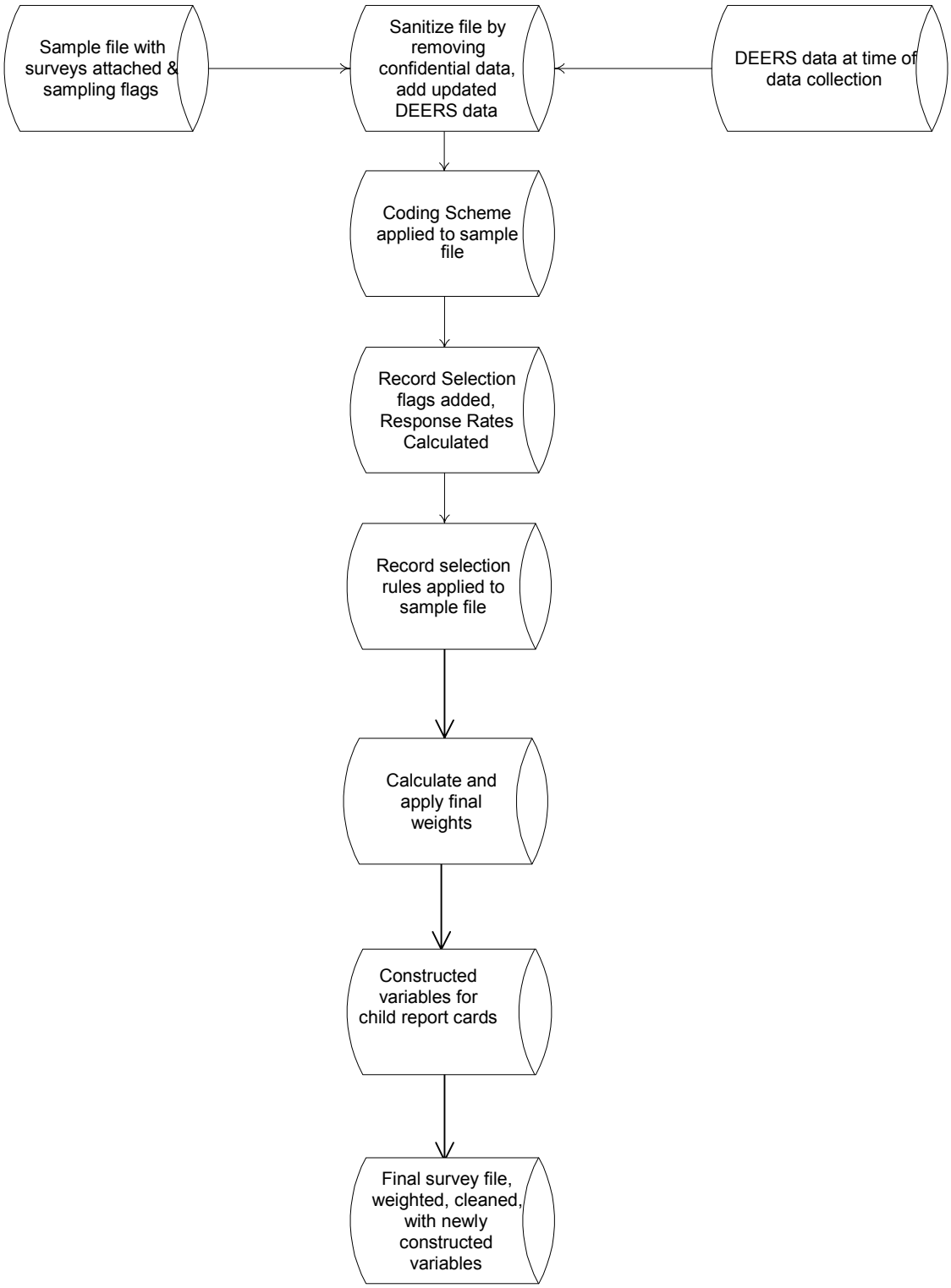
DATA PROCESSING ARCHITECTURE



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APPENDIX D

CODING SCHEME AND CODING TABLES

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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 1A:
C07002A – C07002K

N1A	C07002A-C07002H, C07002J, C07002K are:	C07002I is:	C07002A-C07002H , C07002J, C07002K are coded as:	C07002I is coded as:	*
1	At least one is “marked”	1: “Marked”	Stand as original value	2: Not “Marked”	F
2	At least one is “marked” or “all are blank”	2: Not “Marked” , missing	Stand as original value	Stands as original value	
3	“All are blank”	1: “Marked”	Stand as original value	Stands as original value	

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

Definition of “all are blank” in Coding Table for Note 1A:
Responses to C07002A-C06002H, C07002J, C07002K are all unmarked.

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

Coding Table for Note 1:
C07006, C07007 – C07008

N1	C07006 is:	C07007 is:	C07008 is :	C07006 is coded as:	C07007 is coded as:	C07008 is coded as:	*
1	1: yes	At least one is "marked" or "all are blank"		Stands as original value	., missing if –6; otherwise stand as original value		
2	1: yes or missing response	"Blank or NA"		2: No	.N, valid skip if missing; .C, question should be skipped if marked		B F
3	2: no or missing response	0-10	Any value	1: yes	Stands as original value	Stands as original value	B
4	2: no	-6: Didn't have a personal Dr/nurse	Any value	Stands as original value	.C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	F
5	2: no	"All are blank"		Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked		F
6	2: no or missing response	Missing value	1-2: marked	Stands as original value	Stands as original value	Stands as original value	
7	Missing response	-6: Didn't have a personal Dr/nurse	1-2: marked	2: No	.C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
8	Missing response	"All are blank"		Stands as original value	Stands as original value		

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

Definition of "all are blank" in Coding Table for Note 1:
All responses to questions C07007 through C07008 are missing.

Definition of "blank or NA" in Coding Table for Note 1:
Responses to C07007 through C07008 are a combination of missing and not applicable (-6).

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

Coding Table for Note 2:
C07008, C07009

N2	C07008 is:	C07009 is:	C07008 is coded as:	C07009 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1:yes or missing response	1- 3	2: no	Stands as original value	B
3	1: yes	Missing	Stands as original value	.N, valid skip if missing	F
4	2: no	1-3 or missing response	Stands as original value	Stands as original value	
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 3:
C07011, C07012, C07013

N3	C07011 is:	C07012, C07013 are:	C07011 is coded as:	C07012, C07013 are coded as:	*
1	1: yes	"All are blank" or at least one is "marked"	Stands as original value	Stand as original value	
2	2: no or missing response	At least one is "marked"	1: yes	Stand as original value	B
3	2: no	"All are blank"	Stands as original value	.N, valid skip if missing	F
4	Missing response	"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:
C07012 and C07013 are both missing.

Definition of "marked" in Coding Table for Note 3:
Any pattern of marks outside the definitions "all are blank".

Coding Table for Note 4:
C07014, C07015

N4	C07014 is:	C07015 is:	C07014 is coded as:	C07015 is coded as:	*
1	1: yes	1-3 or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: child didn't see a specialist	2: No	.C question should be skipped	B F
3	2: no or missing response	1- 3	1: yes	Stands as original value	B
4	2: no	Missing, or –6: child didn't see a specialist	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 5:
C07016, C07017-C07018

N5	C07016 is:	C07017 is:	C07018 is:	C07016 is coded as:	C07017 is coded as:	C07018 is coded as:	*
1	1: yes	"All are blank" or at least one is "marked"	"All are blank" or at least one is "marked"	Stands as original value	., missing if –6; stands as original value otherwise	., missing if –6 and C07006=1; stands as original value otherwise	F
2	1: yes or missing response	"Blank or NA"	"Blank or NA"	2:no	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
3	2: no or missing response	At least one is "marked"	At least one is "marked"	1: yes	., missing if –6; stands as original value otherwise	., missing if –6 and C07006=1; stands as original value otherwise	B F
4	2: no	"All are blank" or "blank or NA"	"All are blank" or "blank or NA"	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
5	Missing response	"All are blank"	"All are blank"	Stands as original value	Stands as original value	Stands as original value	

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

Definition of "all are blank" in Coding Table for Note 5:
C07017 and C07018 are both missing.

Definition of "blank or NA" in Coding Table for Note 5:
C07017 and C07018 are either not applicable (-6), or a combination of not applicable (-6) and missing.

Definition of "marked" in Coding Table for Note 5:
Any pattern of marks outside the definitions "all are blank" and "blank or NA."

Coding Table for Note 6:
C07018, C07019-C07022

N6	C07018 is:	C07019, C07020 are:	C07021A-C07021I are:	C07022 is:	C07018 is coded as:	C07019, C07020 are coded as:	C07021A-C07021I are coded as:	C07022 is coded as:	*
1	.C, question should be skipped	Any value	Any value	Any value	Stands as original value	Stand as original value	Stand as original value	Stands as original value	
2	1: yes or 2: no	"All are blank" or at least one is "marked"	Any value	"All are blank" or at least one is "marked"	Stands as original value	., missing if –6; stand as original value otherwise	Stand as original value	Stands as original value	F
3	1: yes, 2: no or missing response	"Blank or NA"	Any value	"Blank or NA"	-6: Child has no personal Dr/ didn't see specialist	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	.N, valid skip if missing; .C, question should be skipped if marked	B F
4	-6: Child has no personal Dr/ didn't see specialist or missing	1: yes	Any value	Any value	Stands as original value	Stand as original value	Stand as original value	Stands as original value	
5	-6: Child has no personal Dr/ didn't see specialist or missing	2: no or missing	Any value	1-4	Stands as original value	Stand as original value	Stand as original value	Stands as original value	
6	-6: Child has no personal Dr/ didn't see specialist	2: no or missing	Any value	-6: didn't see mental health specialist 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	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	2: no	Any value	-6: didn't see mental health specialist or missing	Stands as original value	Stand as original value	Stand as original value	Stands as original value	
8	Missing response	"All are blank"	Any value	"All are blank"	Stands as original value	Stand as original value	Stand as original value	Stands as original value	

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

Definition of "all are blank" in Coding Table for Note 6:
C07019, C07020 and C07022 are missing.

Definition of "blank or NA" in Coding Table for Note 6:
C07019, C07020 and C07022 are either not applicable (-6), or a combination of not applicable (-6) and missing.

Definition of "marked" in Coding Table for Note 6:
Any pattern of marks outside the definitions "all are blank" and "blank or NA."

Coding Table for Note 7:
C07020, C07021A-C07021I, C07022

N7	C07020 is:	C07021A-C07021I are:	C07022 is:	C07020 is coded as:	C07021A-C07021I are coded as:	C07022 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	Stand as original value	Stand as original value	
2	1: Yes	Any value	Any value	Stands as original value	.N, valid skip if unmarked, .C, question should be skipped if marked	., if –6; stands as original value otherwise	F
3	2: No	Any value	Missing	Stands as original value	Stand as original value	.N, child did not see mental health specialist	F
4	2: No	Any value	1, 2 , 3, 4, -6: marked	Stands as original value	Stand as original value	.C, question should be skipped	F
5	Missing response	At least one is "Marked"	Missing	2: No	Stand as original value	.N, child did not see mental health specialist	B F
6	Missing response	At least one is "Marked"	1, 2 , 3, 4, -6: marked	2: No	Stand as original value	.C, question should be skipped	B F
7	Missing response	"All are blank"	Missing	Stands as original value	., if "Not marked"	Stand as original value	F
8	Missing response	"All are blank"	1, 2 , 3, 4: marked	1: Yes	.N, valid skip if unmarked, .C, question should be skipped if marked	Stands as original value	B F
9	Missing response	"All are blank"	-6, child did not see mental health specialist	2: No	Stand as original value	Stands as original value	B

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

Definition of "all are blank" in Coding Table for Note 7:
Responses to C07021A-C07021I are all unmarked.

Definition of "marked" in Coding Table for Note 7:
Any pattern of marks outside the definitions "all are blank."

Coding Table for Note 8:
C07023, C07024

N8	C07023 is:	C07024 is :	C07023 is coded as:	C07024 is coded as:	*
1	1: yes	1-4: how often, or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: no calls	2: no	.C, question should be skipped	B F
3	2: no, or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: no calls, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 9:
C07025, C07026

N9	C07025 is:	C07026 is :	C07025 is coded as:	C07026 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: no urgent care	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: no urgent care, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 10:
C07027, C07028

N10	C07027 is:	C07028 is :	C07027 is coded as:	C07028 is coded as:	*
1	1: yes	1-4: how often or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: no appointments	2: no	.C, question should be skipped	B F
3	2: no, missing response	1-4: how often	1: yes	Stands as original value	B
4	2: no	-6: no appointments, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 11:
C07030, C07031 - C07050

N11	C07030 is:	C07031 – C07050 are:	C07030 is coded as:	C07031 - C07050 are coded as:	*
1	1: none	"Blank or NA" or "all are blank" or At least one is "marked"	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
2	Missing response	At least one is "marked"	Stands as original value	missing, if -6; stand as original value, otherwise	F
3	>=2	At least one is "marked" or "all are blank"	Stands as original value	missing, if -6; stand as original value, otherwise	F
4	>=2 or missing response	"Blank or NA"	1: none	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	Missing response	"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 11:
All responses to questions C07031 through C07050 are missing.

Definition of "blank or NA" in Coding Table for Note 11:
C07031 – C07050 are a combination of not applicable (-6) and missing.

Definition of "marked" in Coding Table for Note 11:
Any pattern of marks outside the definitions "all are blank" and "blank or NA."

Coding Table for Note 12:
C07031, C07032

N12	C07031 is:	C07032 is :	C07031 is coded as:	C07032 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: yes	1-3: problem or missing response	Stands as original value	Stands as original value	
3	1: yes or missing response	-6: no visits	2: no	.C, question should be skipped	B F
4	2: no, or missing response	1-3: problem	1: yes	Stands as original value	B
5	2: no	-6: no visits, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 13:
C07033, C07034

N13	C07033 is:	C07034 is :	C07033 is coded as:	C07034 is coded as:	*
1	.N, valid skip, or .C, question should be skipped	Any value	Stands as original value	Stands as original value	
2	1: yes	1-3: problem or missing response	Stands as original value	Stands as original value	
3	1: yes or missing response	-6: no visits	2: no	.C, question should be skipped	B F
4	2: no or missing response	1-3: problem	1: yes	Stands as original value	B
5	2: no	-6: no visits, or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 14:
C07041, C07042

N14	C07041 is:	C07042 is:	C07041 is coded as:	C07042 is coded as:	*
1	.N, valid skip or .C, question should not have been answered	Any value	Stands as original value	Stands as original value	
2	1: yes	1-4, or missing response	Stands as original value	Stands as original value	
3	1: yes or missing response	–6: no visits	2: no	.C, question should be skipped	B F
4	2: no or missing response	1-4	1: yes	Stands as original value	B
5	2: no	Missing or –6: no visits	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
6	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 15:
C07044, C07045 - C07047

N15	C07044 is:	C07045 – C07047 are:	C07044 is coded as:	C07045 - C07047 are coded as:	*
1	.N, valid skip or .C, question should not have been answered	.N, valid skip or .C, question should not have been answered	Stands as original value	Stand as original value	
2	1: yes	"All are blank" or at least one is "marked"	Stands as original value	Stand as original value	
3	2: no or missing response	At least one is "marked"	1: yes	Stand as original value	B
4	2: no	"All are blank"	Stands as original value	.N, valid skip if missing	F
5	Missing response	"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:
All responses to questions C07045 through C07047 are missing.

Definition of "marked" in Coding Table for Note 15:
Any pattern of marks outside the definition "all are blank".

Coding Table for Note 16:
C07048, C07049

N16	C07048 is:	C07049 is:	C07048 is coded as:	C07049 is coded as:	*
1	.N, valid skip or .C, question should not have been answered	.N, valid skip or .C, question should not have been answered	Stands as original value	Stands as original value	
2	1: yes	Any value	Stands as original value	Stands as original value	
3	2: no or missing response	1-4	1: yes	Stands as original value	B
4	2: no	Missing response	Stands as original value	.N, valid skip if missing	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 17:
C07051, C07052

N17	C07051 is:	C07052 is :	C07051 is coded as:	C07052 is coded as:	*
1	1: yes	1-2 or missing response	Stands as original value	Stands as original value	
2	2: no or missing response	1-2	1: yes	Stands as original value	B
3	2: no	Missing response	Stands as original value	.N, valid skip	F
4	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 18:

C07053, C07054

N18	C07053 is:	C07054 is:	C07053 is coded as:	C07054 is coded as:	*
1	1: yes	1-3: categorize problem or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-3: categorize problem	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

* Indication of backward coding (B) or forward coding (F)

Coding Table for Note 19:
C07055, C07056

N19	C07055 is:	C07056 is :	C07055 is coded as:	C07056 is coded as:	*
1	1: yes	1-3: categorize problem or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-3: categorize problem	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 20:
C07057, C07058

N20	C07057 is:	C07058 is :	C07057 is coded as:	C07058 is coded as:	*
1	1: yes	1-3: categorize problem or missing response	Stands as original value	Stands as original value	
2	1: yes or missing response	-6: not applicable	2: no	.C, question should be skipped	B F
3	2: no or missing response	1-3: categorize problem	1: yes	Stands as original value	B
4	2: no	-6: not applicable or missing response	Stands as original value	.N, valid skip if missing, .C, question should be skipped if marked	F
5	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 21:
C07060, C07062 & C07063

N21	C07060 is:	C07061 is:	C07062 is:	C07063 is:	C07060 is coded as:	C07061 is coded as:	C07062 is coded as:	C07063 is coded as:	*
1	1: Yes	Any value	1-2: problem, or missing response	Any value	Stands as original value	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	Any value	3: Not a problem	Any value	Stands as original value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	2: No, Missing response	Any value	1-2: problem	Any value	1: Yes	Stands as original value	Stands as original value	Stands as original value	B
4	2: No, Missing response	1: yes	3: no problem	Any value	1: Yes	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	B F
5	2: No, Missing response	1: yes	Missing	Any value	1: Yes	Stands as original value	Stands as original value	Stands as original value	B
6	2: No	2: no or missing response	3: no problem or missing response	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	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	Any value	3: no problem	Any value	Stands as original value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
8	Missing response	Missing response	Missing response	Any value	Stands as original 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:
C07065, C07066 & C07067

N22	C07065 is:	C07066 is:	C07067 is:	C07065 is coded as:	C07066 is coded as:	C07067 is coded as:	*
1	1: Yes	1: Yes	Any value	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	Missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	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
6	Missing response	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes or missing response	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 23:
C07068, C07069 & C07070

N23	C07068 is:	C07069 is:	C07070 is:	C07068 is coded as:	C07069 is coded as:	C07070 is coded as:	*
1	1: Yes	1: Yes	Any value	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	Missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	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
6	Missing response	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes or missing response	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 24:
C07071, C07072 & C07073

N24	C07071 is:	C07072 is:	C07073 is:	C07071 is coded as:	C07072 is coded as:	C07073 is coded as:	*
1	1: Yes	1: Yes	Any value	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	Missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	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
6	Missing response	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes, missing response	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 25:
C07074, C07075 & C07076

N25	C07074 is:	C07075 is:	C07076 is:	C07074 is coded as:	C07075 is coded as:	C07076 is coded as:	*
1	1: Yes	1: Yes	Any value	Stands as original value	Stands as original value	Stands as original value	
2	1: Yes	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
3	1: Yes	Missing response	1-2	Stands as original value	1: Yes	Stands as original value	B
4	1: Yes	Missing response	Missing response	Stands as original value	Stands as original value	Stands as original value	
5	2: No	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
6	Missing response	2: No	Any value	Stands as original value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
7	Missing response	1: Yes, missing response	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 26:
C07077, C07078

N26	C07077 is:	C07078 is :	C07077 is coded as:	C07078 is coded as:	*
1	1: yes	Any value	Stands as original value	Stands as original value	
2	2: no	Missing response	Stands as original value	.N, valid skip	F
3	2: no or missing response	1: yes, 2: no	1: yes	Stands as original value	B
4	Missing response	Missing response	Stands as original value	Stands as original value	

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

Coding Table for Note 27:
C07081, C07082

N27	C07081 is:	C07082 is :	C07081 is coded as:	C07082 is coded as:	*
1	.N, valid skip or .C, question should not have been answered	Any value	Stands as original value	Stands as original value	
2	1: yes	Any value	Stands as original value	Stands as original value	
3	2: no	Any value	Stands as original value	.N, valid skip if missing; .C, question should be skipped if marked	F
4	Missing response	Any value	Stands as original value	Stands as original value	

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

APPENDIX E

TECHNICAL DESCRIPTION OF THE 2007 TRICARE CHILD BENEFICIARY REPORTS

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The findings in the 2007 Child Beneficiary Reports are based on parents' responses to the 2007 Child HCSDB. The beneficiary reports will present 11 scores for each region in the MHS and for the MHS overall. Scores enable users to compare providers to national benchmarks in these areas: getting needed care; getting care quickly; how well doctors communicate; courteous and helpful office staff; customer service; rating of the health plan, health care, personal doctor, and specialist; and involving parents. These scores are made up of three different types, described in TABLE E.1: CAHPS composites and satisfaction ratings and TMA composites.

TABLE E.1

CONTENT OF THE 2007 TRICARE CHILD BENEFICIARY REPORTS

CAHPS COMPOSITES
The CAHPS composites group together survey responses to a set of related Child 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 doctors' offices, and their experience with customer service representatives. 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, personal providers, and specialty care. The scores, adjusted for patient age and health status, are presented relative to national benchmarks.
TMA COMPOSITES
Though it is based on CAHPS questions, one composite is developed especially for this report and is not benchmarked. It is based on matters especially relevant to pediatric care, involving parents in decisions about a child's care.

TABLE E.2 lists the questions and response choices for the CAHPS composites in the beneficiary reports. Question numbers refer to the CAHPS 3.0 Child 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, the proportion at the top of the scale for each question will be 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, PCM, and specialist. These ratings are measures of overall beneficiary satisfaction. Questions about these aspects of care ask 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 is the proportion rating that aspect of care at 8 or above.

For the purpose of presentation, all proportions are multiplied by 100 so that the score can be presented on a scale of 0 to 100. Trends are calculated as the difference between the scores for 2005 and 2007.

TABLE E.2

CAHPS 3.0 QUESTIONS AND RESPONSE CHOICES
EXPRESSED AS COMPOSITE SCORES AND RATINGS

CHILD QUESTIONNAIRE CAHPS 3.0	GETTING NEEDED CARE	RESPONSE CHOICE
Q7	Since you joined your health plan, how much of a problem, if any, was it to get a personal doctor or nurse you are happy with?	A big problem A small problem Not a problem
Q13	In the last 12 months, how much of a problem, if any, was it to see a specialist that your child needed to see?	A big problem A small problem Not a problem
Q26	In the last 12 months, how much of a problem, if any, was it to get the care, tests, or treatment you or your doctor believed necessary?	A big problem A small problem Not a problem
Q28	In the last 12 months, how much of a problem, if any, were delays in health care while you waited for approval from your child's health plan?	A big problem A small problem Not a problem
	GETTING CARE QUICKLY	
Q18	In the last 12 months, when you called during regular office hours, how often did you get the help or advice you needed for your child?	Never Sometimes Usually Always
Q22	In the last 12 months, not counting times you needed health care right away, how often did your child get an appointment for healthcare as soon as you wanted?	Never Sometimes Usually Always
Q20	In the last 12 months, when your child needed care right away for an illness, injury, or condition, how often did your child get care as soon as you wanted?	Never Sometimes Usually Always
Q29	In the last 12 months, how often was your child taken to the exam room within 15 minutes of his or her appointment?	Never Sometimes Usually Always

Child Questionnaire CAHPS 3.0	How Well Doctors Communicate	Response Choice
Q32	In the last 12 months, how often did your child's doctors or other health providers listen carefully to you?	Never Sometimes Usually Always
Q33	In the last 12 months, how often did your child's doctors or other health providers explain things in a way you could understand?	Never Sometimes Usually Always
Q34	In the last 12 months, how often did your child's doctors or other health providers show respect for what you had to say?	Never Sometimes Usually Always
Q36	In the last 12 months, how often did doctors or other health providers explain things in a way your child could understand?	Never Sometimes Usually Always
Q37	In the last 12 months, how often did doctors or other health providers spend enough time with your child?	Never Sometimes Usually Always
	Courteous and Helpful Office Staff	
Q30	In the last 12 months, how often did office staff at your child's doctor's office or clinic treat you and your child with courtesy and respect?	Never Sometimes Usually Always
Q31	In the last 12 months, how often were office staff at your child's doctor's office or clinic as helpful as you thought they should be?	Never Sometimes Usually Always
	Customer Service	
Q63	In the last 12 months, did you look for any information about how your health plan works in written material or on the internet? In the last 12 months, how much of a problem, if any, was it to find or understand this information?	A big problem A small problem Not a problem
Q65	In the last 12 months, how much of a problem, if any, was it to get the help you needed when you called your child's health plan's customer service?	A big problem A small problem Not a problem

Q67	In the last 12 months, how much of a problem, if any, did you have with paperwork for your child's health plan?	A big problem A small problem Not a problem

	Involve Parents	
Q39	In the last 12 months, how often did your child's doctors or health providers make it easy for you to discuss your questions or concerns?	Never Sometimes Usually Always
Q40	In the last 12 months, how often did you get the specific information you needed from your child's doctors or other health providers?	Never Sometimes Usually Always
Q41	In the last 12 months, how often did you have your questions answered by your child's doctors or other health providers?	Never Sometimes Usually Always
Q46	When decisions were made in the last 12 months, how often did you child's doctors or health providers involve you as much as you wanted?	Never Sometimes Usually Always

CHILD SUPPLEMENTAL QUESTIONNAIRE CAHPS 3.0	RATING OF ALL HEALTH CARE	RESPONSE CHOICE
Q47	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 child's 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

	RATING OF HEALTH PLAN	
Q68	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 child's health plan?	0 Worst health plan possible 1 2 3 4 5 6 7 8 9 10 Best health plan possible

CHILD QUESTIONNAIRE CAHPS 3.0	RATING OF PERSONAL DOCTOR	RESPONSE CHOICE
Q5	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 child's 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	
Q15	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 your child's specialist?	0 Worst specialist possible 1 2 3 4 5 6 7 8 9 10 Best specialist possible

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APPENDIX F

SAS CODE FOR FILE DEVELOPMENT

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F.1 WEIGHTING\MERGSYNC.SAS - COMBINE ITEM RESPONSE DATA FROM SYNOVATE WITH THE MPR SAMPLING AND DEERS VARIABLES.

```
***************************************************************************
*
* PROGRAM:  MERGSYNC.SAS
* TASK:     QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6077-300)
* PURPOSE:  COMBINE ITEM RESPONSE DATA FROM SYNOVATE WITH THE MPR SAMPLING AND
*           DEERS VARIABLES.  ALSO, CONSTRUCT XREGION AND CONUS.
* WRITTEN:  01/31/2001 BY KEITH RATHBUN
*
* MODIFIED: 1) 08/31/2001 BY KEITH RATHBUN, Adapted from MERGENRC.SAS to
*              accomodate the child survey for 2000.
*           2) 09/13/2002 BY KEITH RATHBUN, Small changes to accomodate the
*              the child survey for 2002.  Removed ENBGSMPL creation include
*              since it is now created at time of sampling.  Removed TSPSITE
*              since it is no longer available in the DEERS system.
*           3) 10/20/2004 BY KEITH RATHBUN: Recode unknown values of
*              MRTLSTAT into one group.
*
* INPUTS:   1) QnyyC.SD2 - 2006 Child DOD Health Survey Data from SYNOVATE
*              where n = Quarter Number
                   yy = Survey Administration Year
*           2) SAMPLC01.SD2 - MPR Sampling variables
*           3) SAMPLC02.SD2 - DEERS and MPR Sampling variables
*           4) FRAMEC.SD2 - More MPR Sampling variables
*
* OUTPUTS:  1) MERGSYNC.SD2 - 2006 Child DOD Health Survey Data
*              (Combined SYNOVATE, MPR, and DEERS variables)
*
***************************************************************************;
LIBNAME  INr        "L:\Q4FY2007"; /*Restricted folder*/
LIBNAME  INv6  v612 "..\..\DATA\cfinal";
LIBNAME  INv8  v8   "..\..\DATA\cfinal";
LIBNAME  OUT   v612 "..\..\DATA\cfinal";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER ERRORS=1;

***************************************************************************
* Define fielding start date so AGE can be recalculated based on DOB.
***************************************************************************;
%LET FIELDATE = 06012007; * mmddyyyy;
%LET FIELDLBL = June 1, 2007;
%LET NUMYRS   = 7; *Add 1 to number of years processed each year;

***************************************************************************
* SORT the RETURNS and the original sample (BWT).
***************************************************************************;
PROC SORT DATA=INv8.dod07q4f_child OUT=SYNFILE; BY MPRID; RUN;
DATA SYNFILE;
   LENGTH MPRID $8;
   SET SYNFILE;
RUN;

PROC SORT DATA=INv6.SAMPLC01 OUT=SAMPLC01; BY MPRID; RUN;


***************************************************************************
* Attach the original sampling variables to the combined file.
***************************************************************************;
DATA MERGSYNC;
   MERGE SAMPLC01(IN=IN1) SYNFILE(IN=IN2);
   BY MPRID;
   FLAG_FIN = COMPRESS(FLAG_FIN); *Trim off the blanks;
   ************************************************************************
   * DROP variables that are not needed.
   ************************************************************************;
   DROP SEL_PROB AGE_N FAMCODE;
   ***************************************************************************
   * Assign indicator of CONUS based on TNEXSMPL.  CONUS stands for
   * Contential United States it but includes both Alaska and Hawaii.
   ***************************************************************************;
   IF      TNEXSMPL IN (1,2,3)       THEN CONUS=1;  **conus;
```

```
   ELSE IF TNEXSMPL IN (4)           THEN CONUS=0;  **oconus;

   LENGTH CONUS   3. ;

   LABEL  CONUS    = 'CONUS - CONUS/OCONUS Indicator'
          BWT      = 'BWT - Basic Sampling Weight'
          FLAG_FIN = 'Final Disposition'
         ;
   IF IN2;
   IF IN2 AND NOT IN1 THEN
      PUT "ERROR: MPRID Not Found in both the Synovate and MPR files, MPRID = " MPRID;
RUN;

PROC SORT DATA=INv6.FRAMEC OUT=FRAMEC
     (KEEP=MPRID SVCSMPL AGESMPL BGCSMPL);
   BY MPRID;
RUN;

DATA MERGSYNC;
   MERGE MERGSYNC(IN=IN1) FRAMEC(IN=IN2);
   BY MPRID;
   IF IN1 AND IN2;
RUN;

*************************************************************************
* Attach the DEERS variables to the combined file.
*************************************************************************;
DATA OUT.MERGSYNC;
   MERGE MERGSYNC   (IN=IN1 )
         INr.SAMPLC02(IN=IN2
               KEEP=MPRID ENBGSMPL
                    DAGEQY  /*LEGDDSCD jma 2007*/ MBRRELCD
                    MEDTYPE PNTYPCD  E1-E&NUMYRS

                    ENRID ACV PNBRTHDT MRTLSTAT PNLCATCD PAYPLNCD
                    RACEETHN  DCATCH   DMEDELG  DBENCAT  DSPONSVC
                    PATCAT ENLSMPL
                    );
   BY MPRID;
   DROP PAYPLNCD /*PNTYPCD jma 2007*/ PNBRTHDT;

   ************************************************************************
   * MPCSMPL follows the recode for the 1999 data.  If the individuals can
   * be classified as an officer or a warrant officer, they are.  Otherwise, the
   * individuals are classified as enlisted.
   ************************************************************************;
   IF PAYPLNCD = 'MO' then
      MPCSMPL = 2;
   ELSE IF PAYPLNCD = 'MW' then
      MPCSMPL = 3;
   ELSE
      MPCSMPL = 1;
   LABEL MPCSMPL  = "MPCSMPL - Military Personnel Category";
   ************************************************************************
   * Relabel ENBGSMPL variable for consistency with prior releases.
   ************************************************************************;
   LABEL ENBGSMPL = "Enrollment by beneficiary category";
   POSTSTR = STRATUM;
   STRATUM = SAMPSTR;
   DROP SAMPSTR;
   LABEL POSTSTR = "Post Stratification Cell";
   LABEL STRATUM = "Sampling STRATUM";
   ************************************************************************
   * 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 FIELDAGE = "Age as of &FIELDLBL";

   LENGTH ONTIME $3;
   ONTIME = "YES";
```

```
      LABEL ONTIME = "Responded Within 8 weeks of Mail-Out";

      ***********************************************************************
      * Recode unknown values of MRTLSTAT into one 'Unknown' group (Z).
      ***********************************************************************;
      IF MRTLSTAT NOT IN ("A","D","I","L","M","N","S","W","Z"," ") THEN MRTLSTAT = "Z";

      DROP FIELDATE DOB BRTHDATE;

      IF IN2;
   RUN;

   TITLE1 "Annual Child DOD Health Survey - Combine Synovate, MPR and DEERS variables (6077-300)";
   TITLE2 "Program Name: MERGSYNC.SAS By Keith Rathbun";
   TITLE3 "Program Inputs: dod07q4child.sas7bdat, FRAMEC/SAMPLC01/C02.SD2 -- Program Output:
MERGSYNC.SD2";

   PROC CONTENTS; RUN;


   PROC FREQ DATA=OUT.MERGSYNC(DROP=MPRID MIQCNTL);
   TABLES E1*E2*E3*E4*E5*E6*E7 FLAG_FIN ONTIME /*TRICKDUP */
          WEB DAGEQY*FIELDAGE TNEXSMPL*CONUS _ALL_ /MISSING LIST;
   RUN;
```

F.2 CODINGSCHEME\CSCHM07C.SAS - IMPLEMENT CODING SCHEME AND CODING TABLES.

```
*****************************************************************
*
*  PROGRAM:  CSCHM07C.SAS
*  PURPOSE:  APPLY CODING SCHEME TO DATA.
*  WRITTEN:  09/04/01 Rankin
* MODIFIED:  10/23/2001 C.Rankin recoded select variables
*                       to 1=marked, 2=missing
*         :  09/23/2003 J.Agufa- Updated program for 2003 survey
*         :  09/15/2004 J.Agufa- Updated program for 2004 survey
*         :  12/05/2005 J.Agufa- Updated program for 2005 survey
*         :  7/13/2006 J.Agufa- Updated program for 2006 survey
*         : 10/30/2007 J.Agufa- Updated program for 2007 survey
*
* PREVIOUS PROGRAM: MERGSYNC.SAS
*
*    INPUT: MERGSYNC.SD2
*   OUTPUT: CSCHM07C.SD2
*
*****************************************************************;

OPTIONS /*OBS=100*/ PS=79 LS=132 PAGENO=1;

LIBNAME LIBRARY V612 '..\..\DATA\CFINAL\FMTLIB';
LIBNAME IN      V612 '..\..\DATA\CFINAL';
LIBNAME OUT     V612 '..\..\DATA\CFINAL';


%LET INDATA=MERGSYNC;
%LET OUTDATA=CSCHM07C;


/* Vairable names in survey -- become recoded varibles              */
/* Note: Includes questions from both versions of the questionnaire  */

%Let varlist1 =
C07001   C07002A C07002B C07002C C07002D C07002E C07002F C07002G C07002H
C07002I  C07002J C07002K C07003  C07004  C07005  C07006  C07007  C07008
C07009   C07010  C07011  C07012  C07013  C07014  C07015  C07016  C07017
C07018   C07019  C07020  C07021A C07021B C07021C C07021D C07021E C07021F
C07021G  C07021H C07021I C07022  C07023  C07024  C07025  C07026
C07027   C07028  C07029  C07030  C07031  C07032  C07033  C07034  C07035
C07036   C07037  C07038  C07039  C07040  C07041  C07042  C07043  C07044
C07045   C07046  C07047  C07048  C07049  C07050  C07051  C07052  C07053
C07054   C07055  C07056  C07057  C07058  C07059  C07060  C07061  C07062
C07063   C07064  C07065  C07066  C07067  C07068  C07069  C07070  C07071
C07072   C07073  C07074  C07075  C07076  C07077  C07078  C07079A C07079B
C07079C  C07079D C07079E C07079F C07079G C07079H C07080A C07080B C07080C
C07080D  C07081  C07082  C07083F C07083I C07084  C07085  C07086  C07087
C07087A  C07087B C07087C C07087D C07087E C07088A C07088B C07088C C07088D
C07088E  C07089  C07090  C07091  C07092  C07093
;

/*  _O variables are the original values from the survey response */

%Let varlist2 =
C07001_O C07002AO C07002BO C07002CO C07002DO C07002EO C07002FO C07002GO C07002HO
C07002IO C07002JO C07002KO C07003_O C07004_O C07005_O C07006_O C07007_O C07008_O
C07009_O C07010_O C07011_O C07012_O C07013_O C07014_O C07015_O C07016_O C07017_O
C07018_O C07019_O C07020_O C07021AO C07021BO C07021CO C07021DO C07021EO C07021FO
C07021GO C07021HO C07021IO C07022_O C07023_O C07024_O C07025_O C07026_O
C07027_O C07028_O C07029_O C07030_O C07031_O C07032_O C07033_O C07034_O C07035_O
C07036_O C07037_O C07038_O C07039_O C07040_O C07041_O C07042_O C07043_O C07044_O
C07045_O C07046_O C07047_O C07048_O C07049_O C07050_O C07051_O C07052_O C07053_O
C07054_O C07055_O C07056_O C07057_O C07058_O C07059_O C07060_O C07061_O C07062_O
C07063_O C07064_O C07065_O C07066_O C07067_O C07068_O C07069_O C07070_O C07071_O
C07072_O C07073_O C07074_O C07075_O C07076_O C07077_O C07078_O C07079AO C07079BO
C07079CO C07079DO C07079EO C07079FO C07079GO C07079HO C07080AO C07080BO C07080CO
C07080DO C07081_O C07082_O C07083FO C07083IO C07084_O C07085_O C07086_O C07087_O
C07087AO C07087BO C07087CO C07087DO C07087EO C07088AO C07088BO C07088CO C07088DO
C07088EO C07089_O C07090_O C07091_O C07092_O C07093_O
;
```

```
TITLE 'DoD 2007 Child Survey';
TITLE2 'Apply Coding Scheme';

DATA &OUTDATA;
  SET IN.&INDATA(RENAME=(C07084=C07084CH C07085=C07085CH));


  /** This correction is for 2007 data  */
  **** update variables with both filled items and check boxes
  **** Per Eric Schone;


  IF (C07083F*1) LT C07083FN AND C07083FN NE 0 THEN C07083F=C07083FN;
  IF (C07083I*1) LT C07083IN                   THEN C07083I=C07083IN;

  IF C07083F EQ 0        THEN C07083F=-7;
  IF C07083F GE 8        THEN C07083F=-7;

  C07084= COMPRESS(C07084CH,' ')*1;

  DROP C07084CH;

  IF C07084 < C07084N THEN C07084=C07084N;
  IF C07084=0         THEN C07084 =-7;
  IF C07084=999       THEN C07084 =-7;



  C07085= COMPRESS(C07085CH,' ')*1;

  DROP C07085CH;

  IF C07085N > C07085   THEN C07085 =C07085N;
  IF C07085 GT 19       THEN C07085 = -7;

  /* JMA 2005
  ****in 2005, the responses were increased to distinguish the
  ****Spanish, Hispanic or Latin origin.  Multiple responses
  ****were given to this question so C07087 is being created
  ****from the multiple responses per Eric Schone;
  */

  IF C07087B=1 THEN C07087=2;
  ELSE IF C07087E=1 THEN C07087=5;
  ELSE IF C07087C=1 THEN C07087=3;
  ELSE IF C07087D=1 THEN C07087=4;
  ELSE IF C07087A=1 THEN C07087=1;


RUN;

DATA OUT.&OUTDATA;

  %INCLUDE "CSCHM07C.FMT"; /* label and format statements */

  SET &OUTDATA;



  ARRAY RECODE &VARLIST1;
  ARRAY ORIG &VARLIST2;

  DO I = 1 to DIM(ORIG);
     ORIG(I) = RECODE(I);
     IF ORIG(I) < 0 THEN DO;
              IF ORIG(I)= -9 THEN RECODE(I)=.;
         ELSE IF ORIG(I)= -8 THEN RECODE(I)=.A;
         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;
```

```
        ELSE RECODE(I)=RECODE(I);
     END;
  END;
  DROP I;


  /* recode selected responses to be 1=marked, 2=unmarked */

  ARRAY   MARKED(*)
           C07002A C07002B C07002C C07002D C07002E C07002F C07002G C07002H
           C07002I C07002J C07002K C07021A C07021B C07021C C07021D C07021E C07021F
           C07021G C07021H C07021I C07079A C07079B C07079C C07079D C07079E
           C07079F C07079G C07079H C07080A C07080B C07080C C07080D
           C07087A C07087B C07087C C07087D C07087E C07088A C07088B C07088C C07088D
           C07088E
                            ;

  ARRAY INFORMAT(*)
           C07002AO C07002BO C07002CO C07002DO C07002EO C07002FO C07002GO C07002HO
           C07002IO C07002JO C07002KO C07021AO C07021BO C07021CO C07021DO C07021EO
           C07021FO C07021GO C07021HO C07021IO C07079AO C07079BO C07079CO C07079DO C07079EO
           C07079FO C07079GO C07079HO C07080AO C07080BO C07080CO C07080DO
           C07087AO C07087BO C07087CO C07087DO C07087EO C07088AO C07088BO C07088CO C07088DO
           C07088EO
             ;

  DO J=1 TO DIM(INFORMAT);
     IF INFORMAT(J) NOT IN (.,-9) THEN MARKED(J)=1;
     ELSE MARKED(J)=2;
  END;
  DROP J;

  ***Change unmarked to . for cases where there is no response to C07087;
  ***DEC 20, 2007;

  IF C07087 EQ . THEN DO;
     C07087B=.;
     C07087E=.;
     C07087C=.;
     C07087D=.;
     C07087A=.;
  END;



  /*  skip coding scheme for all surveys not returned  **/

  IF FLAG_FIN NE 1 THEN GOTO NOSURVEY;


/* NOTE 1A: C07002A--C07002I: Health care plans*/

  ARRAY NOTE1A C07002A--C07002H C07002J C07002K;
  N1AMARK=0;

  DO OVER NOTE1A;
     IF NOTE1A EQ 1 THEN N1AMARK+1;
  END;

  IF C07002I=1 AND (N1MARK >0) THEN DO;
     N1A=1;
     C07002I=2;
  END;
  ELSE IF C07002I IN (2,.) THEN N1A=2;
  ELSE IF C07002I=1 AND N1MARK=0 THEN N1A=3;
  DROP N1AMARK;


/* NOTE 1: C07006, C07007--C07008: Personal doctor or nurse*/

  ARRAY NOTE1 C07007-C07008;
  N1NMISS=0;
  N1MARK=0;
```

```
  DO OVER NOTE1;
     IF NOTE1 NE . THEN N1NMISS+1;
     IF NOTE1 NOT IN (.,.N) THEN N1MARK+1;
  END;

  IF C07006=1 AND (N1MARK >0 OR N1NMISS=0) THEN DO;
     N1=1;
     DO OVER NOTE1;
        IF NOTE1=.N THEN NOTE1=.;
     END;
  END;
  ELSE IF C07006 IN (1,.) AND (N1NMISS>0 AND N1MARK=0) THEN DO;
     N1=2;
     C07006=2;
     DO OVER NOTE1;
        IF NOTE1=. THEN NOTE1=.N;
        ELSE NOTE1=.C;
     END;
  END;
   ELSE IF C07006 IN (2,.) AND C07007 IN (0,1,2,3,4,5,6,7,8,9,10) THEN DO;
     N1=3;
     C07006=1;
  END;
  ELSE IF C07006 IN (2) AND C07007=.N THEN DO;
     N1=4;
     DO OVER NOTE1;
        IF NOTE1=. THEN NOTE1=.N;
        ELSE NOTE1=.C;
     END;
  END;
  ELSE IF C07006=2 AND (N1NMISS=0 OR (N1NMISS>0 AND N1MARK=0)) THEN DO;
     N1=5;
     DO OVER NOTE1;
        IF NOTE1=. THEN NOTE1=.N;
        ELSE NOTE1=.C;
     END;
  END;
  ELSE IF C07006 IN (2,.) AND C07007=. AND C07008 NOT IN (.,.N) THEN DO;
     N1=6;
  END;
  ELSE IF C07006 IN (.) AND C07007=.N  THEN DO;
     N1=7;
     C07006=2;
     DO OVER NOTE1;
        IF NOTE1=. THEN NOTE1=.N;
        ELSE NOTE1=.C;
     END;
  END;
  ELSE IF C07006=.  AND N1NMISS=0 THEN N1=8;
  DROP N1MARK N1NMISS;


/** Note2  -- C07008, C07009: Personal doctor or nurse **/

  IF C07008 IN (.N, .C) THEN N2=1;
  ELSE IF C07008 IN (1,.) AND C07009 GT 0 THEN DO;
     C07008=2;
     N2=2;
  END;
  ELSE IF C07008=1 AND C07009 IN (.) THEN DO;
     C07009=.N;
     N2=3;
  END;
  ELSE IF C07008=2 AND C07009 IN (1,2,3,.) THEN N2=4;
  ELSE IF C07008=. AND C07009=. THEN N2=5;


/** Note 3 -- C07011, C07012, C07013: Personal doctor or nurse **/

  ARRAY NOTE3 C07012 C07013;
  N3MARK=0;
  N3NMISS=0;

  DO OVER NOTE3;
```

```
      IF NOTE3 NE . THEN N3NMISS+1;
      IF NOTE3 NOT IN (.N,.) THEN N3MARK+1;
   END;

   IF C07011=1 AND (N3NMISS=0 OR N3MARK>0) THEN N3=1;
   ELSE IF C07011 IN (2,.) AND N3MARK>0 THEN DO;
      C07011=1;
       N3=2;
   END;
   ELSE IF C07011=2 AND (N3NMISS=0) THEN DO;
      N3=3;
      DO OVER NOTE3;
         IF NOTE3=. THEN NOTE3=.N;
      END;
   END;
   ELSE IF C07011=. AND  N3NMISS=0 THEN N3=4;
   DROP N3NMISS N3MARK;


/** Note4  -- C07014, C07015: Specialist **/

   IF C07014=1 AND C07015 IN (1,2,3,.) THEN N4=1;
   ELSE IF C07014 IN (1,.) AND C07015=.N THEN DO;
      C07014=2;
      C07015=.C;
      N4=2;
   END;
   ELSE IF C07014 IN (2,.) AND C07015 GT 0 THEN DO;
      C07014=1;
      N4=3;
   END;
   ELSE IF C07014=2 AND C07015 IN (.N,.) THEN DO;
      IF C07015=. THEN C07015=.N;
      ELSE C07015=.C;
      N4=4;
   END;
   ELSE IF C07014=. AND C07015=. THEN N4=5;


/** Note 5 -- C07016, C07017, C07018: Child See Specialist **/

   ARRAY NOTE5 C07017 C07018;
   N5MARK=0;
   N5NMISS=0;

   DO OVER NOTE5;
      IF NOTE5 NE . THEN N5NMISS+1;
      IF NOTE5 NOT IN (.N,.) THEN N5MARK+1;
   END;

   IF C07016=1 AND (N5NMISS=0 OR N5MARK>0) THEN do;
      N5=1;
      IF C07017=.N THEN C07017=.;
      IF C07018=.N AND C07006=1 THEN C07018=.;
   END;
   ELSE IF C07016 IN (1,.) AND N5NMISS>0 AND N5MARK=0 THEN DO;
      C07016=2;
      N5=2;
      DO OVER NOTE5;
         IF NOTE5 IN (.) THEN NOTE5=.N;
         ELSE NOTE5=.C;
      END;
   END;
   ELSE IF C07016 IN (2,.) AND N5MARK>0 THEN DO;
      C07016=1;
      N5=3;
      IF C07017=.N THEN C07017=.;
      IF C07018=.N AND C07006=1 THEN C07018=.;
   END;
   ELSE IF C07016=2 AND (N5NMISS=0 OR (N5NMISS>0 AND N5MARK=0)) THEN DO;
      N5=4;
      DO OVER NOTE5;
         IF NOTE5 IN (.) THEN NOTE5=.N;
         ELSE NOTE5=.C;
```

```
      END;
   END;
   ELSE IF C07016=. AND  N5NMISS=0 THEN N5=5;
   DROP N5NMISS N5MARK;


/** Note 6 -- C07018, C07019, C07020, C07022 C07021A-I: Child See Mental Health Specialist **/

   ARRAY NOTE6 C07019 C07020 C07022;
   ARRAY NOTE6A C07021A--C07021I;
   N6MARK=0;
   N6NMISS=0;

   DO OVER NOTE6;
      IF NOTE6 NE . THEN N6NMISS+1;
      IF NOTE6 NOT IN (.N,.) THEN N6MARK+1;
   END;

   IF C07018 EQ .C THEN DO;
      N6=1;
   END;
   ELSE IF C07018 IN (1,2) AND (N6NMISS=0 OR N6MARK>0) THEN do;
      N6=2;
      DO OVER NOTE6;
         IF NOTE6=.N THEN NOTE6=.;
      END;
   END;
   ELSE IF C07018 IN (1,2,.) AND N6NMISS>0 AND N6MARK=0 THEN DO;
      C07018=.N;
      N6=3;
      DO OVER NOTE6;
         IF NOTE6=. THEN NOTE6=.N;
         ELSE NOTE6=.C;
      END;
      DO OVER NOTE6A;
         IF NOTE6A IN (.,2) THEN NOTE6A=.N;
         ELSE NOTE6A=.C;
      END;
   END;
   ELSE IF C07018 IN (.N, .) AND (C07019 EQ 1 OR C07020 EQ 1) THEN DO;
      N6=4;
   END;
   ELSE IF C07018 IN (.N, .) AND C07022 IN (1,2,3,4) THEN DO;
      N6=5;
   END;
   ELSE IF C07018 IN (.N ) AND C07019 IN (2,.) AND C07020 IN (2,.) AND C07022 IN (.N,.) THEN DO;
      N6=6;
      DO OVER NOTE6;
         IF NOTE6=. THEN NOTE6=.N;
         ELSE NOTE6=.C;
      END;
      DO OVER NOTE6A;
         IF NOTE6A IN (.,2) THEN NOTE6A=.N;
         ELSE NOTE6A=.C;
      END;
   END;
   ELSE IF C07018 IN (. ) AND (C07019 IN (2) OR C07020 IN (2)) AND C07022 IN (.N,.) THEN DO;
      N6=7;
   END;
   ELSE IF C07018=. AND  N6NMISS=0 THEN N6=8;
   DROP N6NMISS N6MARK;



/** Note 7 -- C07020, C07021A-C07021I: Child saw a mental health specialist **/

   ARRAY NOTE7  C07021A--C07021I;

   N7NMISS=0;

   DO OVER NOTE7;
      IF NOTE7 NOT IN (.,2) THEN N7NMISS+1;
   END;
```

```
IF C07020 IN (.N, .C) AND C07021A IN (.N, .C) AND
C07021B IN (.N, .C) AND C07021C IN (.N, .C) AND
C07021D IN (.N, .C) AND C07021E IN (.N, .C) AND
C07021F IN (.N, .C) AND C07021G IN (.N, .C) AND
C07021H IN (.N, .C) AND C07021I IN (.N, .C)
THEN N7=1;
ELSE IF C07020 IN (1) THEN DO;
   N7=2;
   DO OVER NOTE7;
      IF NOTE7 IN (.,2) THEN NOTE7=.N;
      ELSE NOTE7=.C;
   END;
END;
ELSE IF C07020 IN (2) THEN DO;
   N7=3;
END;
ELSE IF C07020=.  AND N7NMISS > 0 THEN DO;
    C07020 = 2;
    C07022 = .;  **** jma Dec 20, 2007;
    N7=4;
END;
ELSE IF C07020=. THEN DO;
    N7=5;
    DO OVER NOTE7;
      IF NOTE7 NE . THEN NOTE7=.;
    END;
END;

DROP N7NMISS;



/** Note 8 -- call during regular office hours:  C07023, C07024 **/

IF C07023 = 1 AND C07024 IN (1,2,3,4,.)  THEN N8=1;
ELSE IF C07023 IN (1,.) AND C07024=.N THEN DO;
   N8=2;
   C07023=2;
   C07024=.C;
END;
ELSE IF C07023 IN (2,.) AND C07024 GE 1  THEN DO;
   N8=3;
   C07023=1;
END;
ELSE IF C07023=2 AND C07024 IN (.N,.) THEN DO;
   N8=4;
   IF C07024=. THEN C07024=.N;
   ELSE C07024=.C;
END;
ELSE IF C07023=.  AND C07024=. THEN N8=5;



/** Note 9 -- Needed care right away:  C07025, C07026 **/

IF C07025 = 1 AND (C07026 GE 1 OR C07026 IN (.)) THEN N9=1;
ELSE IF C07025 IN (1,.) AND C07026=.N THEN DO;
   N9=2;
   C07025=2;
   C07026=.C;
END;
ELSE IF C07025 IN (2,.) AND (C07026 GE 1) THEN DO;
   N9=3;
   C07025=1;
END;
ELSE IF C07025=2 AND C07026 IN (.N,.) THEN DO;
   N9=4;
   IF C07026=. THEN C07026=.N;
   ELSE C07026=.C;
END;
ELSE IF C07025=.  AND C07026=. THEN N9=5;
```

```
/** Note 10 -- Needed care right away:  C07027, C07028 **/

IF C07027 = 1 AND (C07028 GE 1 OR C07028 IN (.)) THEN N10=1;
ELSE IF C07027 IN (1,.) AND C07028=.N THEN DO;
   N10=2;
   C07027=2;
   C07028=.C;
END;
ELSE IF C07027 IN (2,.) AND (C07028 GE 1) THEN DO;
   N10=3;
   C07027=1;
END;
ELSE IF C07027=2 AND C07028 IN (.N,.) THEN DO;
   N10=4;
   IF C07028=. THEN C07028=.N;
   ELSE C07028=.C;
END;
ELSE IF C07027=.  AND C07028=. THEN N10=5;



/** Note 11 - doctor's office or clinic:  C07030 -- C07050 **/

ARRAY NOTE11  C07031-C07050;

N11NMISS=0;
N11MARK=0;

DO OVER NOTE11;
   IF NOTE11 NE . THEN N11NMISS+1;
   IF NOTE11 NOT IN (., .N) THEN N11MARK+1;
END;

IF C07030=1 THEN DO;
   N11=1;
   DO OVER NOTE11;
      IF NOTE11 =.  THEN NOTE11=.N;
      ELSE NOTE11=.C;
   END;
END;
ELSE IF C07030 IN (.) AND N11MARK>0 THEN DO;
   N11=2;
   DO OVER NOTE11;
      IF NOTE11 =.N  THEN NOTE11=.;
   END;
END;
ELSE IF C07030 GE 2 AND (N11NMISS=0 OR N11MARK>0) THEN DO;
   N11=3;
   DO OVER NOTE11;
      IF NOTE11 =.N  THEN NOTE11=.;
   END;
END;
ELSE IF C07030 IN (2,3,4,5,6,7,.) AND N11NMISS> 0 AND N11MARK=0 THEN DO;
   N11=4;
   C07030=1;
   DO OVER NOTE11;
      IF NOTE11=. THEN NOTE11=.N;
      ELSE NOTE11=.C;
   END;
END;
ELSE IF C07030=.  AND N11NMISS= 0 THEN N11=5;

DROP N11NMISS N11MARK;


/** Note 12 -- Needed care, tests, or treatment :  C07031, C07032 **/

IF C07031 IN (.N, .C) THEN  N12=1;
ELSE IF C07031 = 1 AND (C07032 GE 1 OR C07032 IN (.)) THEN N12=2;
ELSE IF C07031 IN (1,.) AND C07032=.N THEN DO;
   N12=3;
   C07031=2;
   C07032=.C;
```

```
  END;
  ELSE IF C07031 IN (2,.) AND (C07032 GE 1 ) THEN DO;
     N12=4;
     C07031=1;
  END;
  ELSE IF C07031=2 AND C07032 IN (.N,.) THEN DO;
     N12=5;
     IF C07032=. THEN C07032=.N;
     ELSE C07032=.C;
  END;
  ELSE IF C07031=.  AND C07032=. THEN N12=6;



  /** Note 13 -- Approval for child's health care :  C07033, C07034 **/

  IF C07033 IN (.N, .C) THEN  N13=1;
  ELSE IF C07033 = 1 AND (C07034 GE 1 OR C07034 IN (.)) THEN N13=2;
  ELSE IF C07033 IN (1,.) AND C07034=.N THEN DO;
     N13=3;
     C07033=2;
     C07034=.C;
  END;
  ELSE IF C07033 IN (2,.) AND (C07034 GE 1) THEN DO;
     N13=4;
     C07033=1;
  END;
  ELSE IF C07033=2 AND C07034 IN (.N,.) THEN DO;
     N13=5;
     IF C07034=. THEN C07034=.N;
     ELSE C07034=.C;
  END;
  ELSE IF C07033=.  AND C07034 IN (.) THEN N13=6;


  /** NOTE14 - child able to talk with doctors: C07041, C07042  **/
  IF C07041 IN (.N, .C) THEN  N14=1;
  ELSE IF C07041 = 1 AND (C07042 GE 1 OR C07042 IN (.)) THEN N14=2;
  ELSE IF C07041 IN (1,.) AND C07042=.N THEN DO;
     N14=3;
     C07041=2;
     C07042=.C;
  END;
  ELSE IF C07041 IN (2,.) AND (C07042 GE 1 ) THEN DO;
     N14=4;
     C07041=1;
  END;
  ELSE IF C07041=2 AND C07042 IN (.N,.) THEN DO;
     N14=5;
     IF C07042=. THEN C07042=.N;
     ELSE C07042=.C;
  END;
  ELSE IF C07041=.  AND C07042 IN (.) THEN N14=6;



/** Note 15 -- C07044, C07045,C07047: Questions or concerns about child's health **/

  ARRAY NOTE15 C07045-C07047;
  N15MARK=0;
  N15NMISS=0;

IF C07044 IN (.C,.N) THEN N15=1;
ELSE DO;
  DO OVER NOTE15;
     IF NOTE15 NE . THEN N15NMISS+1;
     IF NOTE15 NOT IN (.N,.) THEN N15MARK+1;
  END;

  IF C07044=1 AND (N15NMISS=0 OR N15MARK>0) THEN N15=2;
  ELSE IF C07044 IN (2,.) AND N15MARK>0 THEN DO;
     C07044=1;
      N15=3;
  END;
```

```
  ELSE IF C07044=2 AND (N15NMISS=0) THEN DO;
     N15=4;
     DO OVER NOTE15;
        IF NOTE15=. THEN NOTE15=.N;
     END;
  END;
  ELSE IF C07044=. AND  N15NMISS=0 THEN N15=5;

  DROP N15NMISS N15MARK;

END;


/** Note 16 -- C07048, C07049: Decisions made about child's healthcare **/


IF C07048 IN (.C,.N) AND C07049 IN (.C,.N)
THEN N16=1;
ELSE IF C07048=1 THEN N16=2;
ELSE IF C07048 IN (2,.) AND C07049 IN (1,2,3,4) THEN DO;
     C07048=1;
     N16=3;
END;
ELSE IF C07048=2 THEN DO;
     N16=4;
     IF C07049=. THEN C07049=.N;
     ELSE C07049=.C;
END;
ELSE IF C07048=. AND  C07049=. THEN N16=5;


/** Note17  -- C07051, C07052: More than 1 kind of health provider **/

  IF C07051=1 AND C07052 IN (1,2,.) THEN N17=1;
  ELSE IF C07051 IN (2,.) AND (C07052 GT 0 ) THEN DO;
     C07051=1;
     N17=2;
  END;
  ELSE IF C07051=2 AND C07052 IN (.) THEN DO;
     C07052=.N;
     N17=3;
  END;
  ELSE IF C07051=. AND C07052=. THEN N17=4;


  /** Note 18 - written materials: C07053, C07054       **/

  IF C07053=1 AND C07054 IN (1,2,3,.) THEN N18=1;
  ELSE IF C07053 IN (1,.) AND C07054=.N THEN DO;
     N18=2;
     C07053=2;
     C07054=.C;
  END;
  ELSE IF C07053 IN (2,.) AND C07054 IN (1,2,3) THEN DO;
     C07053=1;
     N18=3;
  END;
  ELSE IF C07053=2 AND C07054 IN (., .N) THEN DO;
     N18=4;
     IF C07054=. THEN C07054=.N;
     ELSE C07054=.C;
  END;
  ELSE IF C07053=.  AND C07054= . THEN N18=5;



  /** Note 19 - customer service:  C07055, C07056    **/

  IF C07055=1 AND C07056 IN (1,2,3,.) THEN N19=1;
  ELSE IF C07055 IN (1,.) AND C07056=.N THEN DO;
     N19=2;
     C07055=2;
     C07056=.C;
  END;
```

```
  ELSE IF C07055 IN (2,.) AND C07056 IN (1,2,3) THEN DO;
     N19=3;
     C07055=1;
  END;
  ELSE IF C07055=2 AND C07056 IN (.,.N) THEN DO;
     N19=4;
     IF C07056=. THEN C07056=.N;
     ELSE C07056 =.C;
  END;
  ELSE IF C07055=.  AND C07056=. THEN N19=5;



  /** Note 20 - paperwork:  C07057, C07058     **/

  IF C07057=1 AND C07058 IN (1,2,3,.) THEN N20=1;
  ELSE IF C07057 IN (1,.) AND C07058=.N THEN DO;
     N20=2;
     C07057=2;
     C07058=.C;
  END;
  ELSE IF C07057 IN (2,.) AND C07058 IN (1,2,3) THEN DO;
     N20=3;
     C07057=1;
  END;
  ELSE IF C07057=2 AND C07058 IN (.N,.) THEN DO;
     N20=4;
     IF C07058=. THEN C07058=.N;
     ELSE C07058=.C;
  END;
  ELSE IF C07057=.  AND C07058=. THEN N20=5;



/* NOTE 21 C07060, C07061-C07063: Get a prescription*/

  IF C07060=1 THEN DO;
     IF C07062 IN (1,2, .) THEN N21=1;
     ELSE IF C07062=3 THEN DO;
        IF C07063 NE . THEN C07063=.C;
        ELSE C07063 = .N;
        N21=2;
     END;
  END;
  ELSE IF C07060 IN (2, .) AND C07062 IN (1, 2) THEN DO;
     C07060= 1;
     N21=3;
  END;
  ELSE IF C07060 IN (2, .) AND C07061 IN (1) AND C07062 IN (3) THEN DO;
     C07060= 1;
     IF C07063 NE . THEN C07063= .C;
     ELSE C07063= .N;

     N21=4;
  END;
  ELSE IF C07060 IN (2, .) AND C07061 IN (1) AND C07062 IN (.) THEN DO;
     C07060= 1;
     N21=5;
  END;
  ELSE IF C07060=2  AND C07061 IN (2,.) AND C07062 IN (3, .)  THEN DO;
     N21=6;
     IF C07061 NE . THEN C07061= .C;
     ELSE C07061= .N;
     IF C07062 NE . THEN C07062= .C;
     ELSE C07062= .N;
     IF C07063 NE . THEN C07063= .C;
     ELSE C07063= .N;
  END;
  ELSE IF C07060 IN (.)   AND C07062 IN (3, .) THEN DO;
     IF C07062=3 THEN DO;
        IF C07063 NE . THEN C07063=.C;
        ELSE C07063 = .N;
        N21=7;
     END;
```

```
      ELSE N21=8;
   END;


/* NOTE 22 C07065, C07066-C07067: Medicine prescribed by doctor*/

   IF C07065=1 THEN DO;
      IF C07066=1 THEN N22=1;
      ELSE IF C07066=2 THEN DO;
         IF C07067 NE . THEN C07067=.C;
         ELSE C07067 = .N;
         N22=2;
      END;
      ELSE IF C07066 IN (.) THEN DO;
         IF C07067 NE . THEN DO;
            C07066=1;
            N22=3;
         END;
         ELSE N22=4;
      END;
   END;
   ELSE IF C07065=2 THEN DO;
      N22=5;
      IF C07066 NE . THEN C07066= .C;
      ELSE C07066= .N;
      IF C07067 NE . THEN C07067= .C;
      ELSE C07067= .N;
   END;
   ELSE IF C07065 IN (.) THEN DO;
      IF C07066=2 THEN DO;
         IF C07067 NE . THEN C07067=.C;
         ELSE C07067 = .N;
         N22=6;
      END;
      ELSE N22=7;
   END;



/* NOTE 23 C07068, C07069-C07070: Medical, health, education service*/

   IF C07068=1 THEN DO;
      IF C07069=1 THEN N23=1;
      ELSE IF C07069=2 THEN DO;
         IF C07070 NE . THEN C07070=.C;
         ELSE C07070 = .N;
         N23=2;
      END;
      ELSE IF C07069 IN ( .) THEN DO;
         IF C07070 NE . THEN DO;
            C07069=1;
            N23=3;
         END;
         ELSE N23=4;
      END;
   END;
   ELSE IF C07068=2 THEN DO;
      N23=5;
      IF C07069 NE . THEN C07069= .C;
      ELSE C07069= .N;
      IF C07070 NE . THEN C07070= .C;
      ELSE C07070= .N;
   END;
   ELSE IF C07068 IN (.) THEN DO;
      IF C07069=2 THEN DO;
         IF C07070 NE . THEN C07070=.C;
         ELSE C07070 = .N;
         N23=6;
      END;
      N23=7;
   END;
```

```
/* NOTE 24 C07071, C07072-C07073: Child limited or prevented*/

  IF C07071=1 THEN DO;
     IF C07072=1 THEN N24=1;
     ELSE IF C07072=2 THEN DO;
        IF C07073 NE . THEN C07073=.C;
        ELSE C07073 = .N;
        N24=2;
     END;
     ELSE IF C07072 IN ( .) THEN DO;
        IF C07073 NE . THEN DO;
           C07072=1;
           N24=3;
        END;
        ELSE N24=4;
     END;
  END;
  ELSE IF C07071=2 THEN DO;
     N24=5;
     IF C07072 NE . THEN C07072= .C;
     ELSE C07072= .N;
     IF C07073 NE . THEN C07073= .C;
     ELSE C07073= .N;
  END;
  ELSE IF C07071 IN (.) THEN DO;
     IF C07072=2 THEN DO;
        IF C07073 NE . THEN C07073=.C;
        ELSE C07073 = .N;
        N24=6;
     END;
     ELSE N24=7;
  END;



/* NOTE 25 C07074, C07075-C07076: Special Therapy*/

  IF C07074=1 THEN DO;
     IF C07075=1 THEN N25=1;
     ELSE IF C07075=2 THEN DO;
        IF C07076 NE . THEN C07076=.C;
        ELSE C07076 = .N;
        N25=2;
     END;
     ELSE IF C07075 IN ( .) THEN DO;
        IF C07076 NE . THEN DO;
           C07075=1;
           N25=3;
        END;
        ELSE N25=4;
     END;
  END;
  ELSE IF C07074=2 THEN DO;
     N25=5;
     IF C07075 NE . THEN C07075= .C;
     ELSE C07075= .N;
     IF C07076 NE . THEN C07076= .C;
     ELSE C07076= .N;
  END;
  ELSE IF C07074 IN (.) THEN DO;
     IF C07075=2 THEN DO;
        IF C07076 NE . THEN C07076=.C;
        ELSE C07076 = .N;
        N25=6;
     END;
     N25=7;
  END;



  /** Note 26:  C07077, C07078:  Need treatment or counseling **/

  IF C07077=1 THEN N26=1;
  ELSE IF C07077=2 AND C07078=. THEN DO;
```

```
     N26=2;
     C07078=.N;
  END;
  ELSE IF C07077 IN (2,.) AND C07078 IN (1,2) THEN DO;
     N26=3;
     C07077=1;
  END;
  ELSE IF C07077=.  AND C07078=. THEN N26=4;


  /** Note 27:  C07081, C07082:  Physical emotional development that
                                 may require care
   **/

  IF C07081 IN (.N, .C) THEN N27=1;
  ELSE IF C07081=1 THEN N27=2;
  ELSE IF C07081=2 THEN DO;
     N27=3;
     IF C07082=. THEN C07082=.N;
     ELSE C07082=.C;
  END;
  ELSE IF C07081=.   THEN N27=4;

NOSURVEY:

  /* missing values */

  ARRAY MISS MISS_9 MISS_8 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 -8) THEN MISS_8=MISS_8 + 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;
  END;

  OUTPUT;

RUN;


PROC CONTENTS DATA=OUT.&OUTDATA;
RUN;

PROC MEANS DATA=OUT.&OUTDATA N NMISS MIN MAX SUM MEAN;
   WHERE FLAG_FIN=1;
   VAR MISS_TOT MISS_1 MISS_4 MISS_5 MISS_6-MISS_9;
   TITLE3 'Frequency Checks - Missing Value Totals';
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
   WHERE FLAG_FIN=1;
   TABLES &VARLIST1.

C07001   *  C07001_O
C07002A  *  C07002AO
C07002B  *  C07002BO
C07002C  *  C07002CO
C07002D  *  C07002DO
C07002E  *  C07002EO
C07002F  *  C07002FO
```

```
C07002G  *  C07002GO
C07002H  *  C07002HO
C07002I  *  C07002IO
C07002J  *  C07002JO
C07002K  *  C07002KO
C07003   *  C07003_O
C07004   *  C07004_O
C07005   *  C07005_O
C07006   *  C07006_O
C07007   *  C07007_O
C07008   *  C07008_O
C07009   *  C07009_O
C07010   *  C07010_O
C07011   *  C07011_O
C07012   *  C07012_O
C07013   *  C07013_O
C07014   *  C07014_O
C07015   *  C07015_O
C07016   *  C07016_O
C07017   *  C07017_O
C07018   *  C07018_O
C07019   *  C07019_O
C07020   *  C07020_O
C07021A  *  C07021AO
C07021B  *  C07021BO
C07021C  *  C07021CO
C07021D  *  C07021DO
C07021E  *  C07021EO
C07021F  *  C07021FO
C07021G  *  C07021GO
C07021H  *  C07021HO
C07021I  *  C07021IO
C07022   *  C07022_O
C07023   *  C07023_O
C07024   *  C07024_O
C07025   *  C07025_O
C07026   *  C07026_O
C07027   *  C07027_O
C07028   *  C07028_O
C07029   *  C07029_O
C07030   *  C07030_O
C07031   *  C07031_O
C07032   *  C07032_O
C07033   *  C07033_O
C07034   *  C07034_O
C07035   *  C07035_O
C07036   *  C07036_O
C07037   *  C07037_O
C07038   *  C07038_O
C07039   *  C07039_O
C07040   *  C07040_O
C07041   *  C07041_O
C07042   *  C07042_O
C07043   *  C07043_O
C07044   *  C07044_O
C07045   *  C07045_O
C07046   *  C07046_O
C07047   *  C07047_O
C07048   *  C07048_O
C07049   *  C07049_O
C07050   *  C07050_O
C07051   *  C07051_O
C07052   *  C07052_O
C07053   *  C07053_O
C07054   *  C07054_O
C07055   *  C07055_O
C07056   *  C07056_O
C07057   *  C07057_O
C07058   *  C07058_O
C07059   *  C07059_O
C07060   *  C07060_O
C07061   *  C07061_O
C07062   *  C07062_O
C07063   *  C07063_O
```

```
C07064   *  C07064_O
C07065   *  C07065_O
C07066   *  C07066_O
C07067   *  C07067_O
C07068   *  C07068_O
C07069   *  C07069_O
C07070   *  C07070_O
C07071   *  C07071_O
C07072   *  C07072_O
C07073   *  C07073_O
C07074   *  C07074_O
C07075   *  C07075_O
C07076   *  C07076_O
C07077   *  C07077_O
C07078   *  C07078_O
C07079A  *  C07079AO
C07079B  *  C07079BO
C07079C  *  C07079CO
C07079D  *  C07079DO
C07079E  *  C07079EO
C07079F  *  C07079FO
C07079G  *  C07079GO
C07079H  *  C07079HO
C07080A  *  C07080AO
C07080B  *  C07080BO
C07080C  *  C07080CO
C07080D  *  C07080DO
C07081   *  C07081_O
C07082   *  C07082_O
C07083F  *  C07083FO
C07083I  *  C07083IO
C07084   *  C07084_O
C07085   *  C07085_O
C07086   *  C07086_O
C07087   *  C07087_O
C07087A  *  C07087AO
C07087B  *  C07087BO
C07087C  *  C07087CO
C07087D  *  C07087DO
C07087E  *  C07087EO
C07088A  *  C07088AO
C07088B  *  C07088BO
C07088C  *  C07088CO
C07088D  *  C07088DO
C07088E  *  C07088EO
C07089   *  C07089_O
C07090   *  C07090_O
C07091   *  C07091_O
C07092   *  C07092_O
C07093   *  C07093_O
/MISSING LIST;
   TITLE3 'Frequency Checks - Formatted Response Variables';
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
   WHERE FLAG_FIN=1;
   TABLES
               C07003  C07004  C07005  C07007  C07014
               C07023  C07025  C07027
               C07029  C07030  C07053
               C07055  C07057  C07059  C07064  C07086  C07087
               C07089  C07090  C07091  C07093

               C07088A C07088B C07088C C07088D C07088E

C07018   *  C07018_O*N5*N6
C07019   *  C07019_O*N5*N6
C07020   *  C07020_O*N5*N6
C07021A  *  C07021AO*N5*N6
C07021B  *  C07021BO*N5*N6
C07021C  *  C07021CO*N5*N6
C07021D  *  C07021DO*N5*N6
C07021E  *  C07021EO*N5*N6
C07021F  *  C07021FO*N5*N6
```

```
C07021G  *  C07021GO*N5*N6
C07021H  *  C07021HO*N5*N6
C07021I  *  C07021IO*N5*N6
C07022   *  C07022_O*N5*N6

           N1A N1-N27/list MISSING;
   TITLE3 'Frequency Checks - Critical questions and Coding Scheme Notes';
RUN;


%MACRO GETFREQS (TABLES, NOTE);

 PROC FREQ DATA=OUT.&OUTDATA;
    WHERE FLAG_FIN=1;
    TABLES &TABLES/MISSING LIST;
    FORMAT _ALL_ ;
    TITLE3 "CODING SCHEME FOR NOTE &NOTE";
 RUN;

%MEND GETFREQS;

PROC FREQ DATA=IN.&INDATA;
   TABLES FLAG_FIN;
RUN;

PROC FREQ DATA=OUT.&OUTDATA;
   TABLES FLAG_FIN;
RUN;


%GETFREQS(N1*C07006_O*C07007_O*C07008_O*C07006*C07007*C07008,1);
%GETFREQS(N2*C07008_O*C07009_O*C07008*C07009,2);
%GETFREQS(N3*C07011_O*C07012_O*C07013_O*C07011*C07012*C07013,3);
%GETFREQS(N4*C07014_O*C07015_O*C07014*C07015,4);
%GETFREQS(N5*C07016_O*C07017_O*C07018_O*C07016*C07017*C07018,5);
%GETFREQS(N6*C07018_O*C07019_O*C07020_O*C07022_O*C07018*C07019*C07020*C07022,6);
%GETFREQS(N8*C07023_O*C07024_O*C07023*C07024,8);
%GETFREQS(N9*C07025_O*C07026_O*C07025*C07026,9);
%GETFREQS(N10*C07027_O*C07028_O*C07027*C07028,10);
%GETFREQS(N11*C07030_O*C07031_O*C07032_O*C07033_O*C07034_O*C07035_O*C07036_O*C07030,11);
%GETFREQS(N12*C07031_O*C07032_O*C07031*C07032,12);
%GETFREQS(N13*C07033_O*C07033_O*C07033*C07034,13);
%GETFREQS(N14*C07041_O*C07042_O*C07041*C07042,14);
%GETFREQS(N15*C07044_O*C07045_O*C07046_O*C07047_O*C07044*C07045*C07046*C07047,15);
%GETFREQS(N16*C07048_O*C07049_O*C07048*C07049,16);
%GETFREQS(N17*C07051_O*C07052_O*C07051*C07052,17);
%GETFREQS(N18*C07053_O*C07054_O*C07053*C07054,18);
%GETFREQS(N19*C07055_O*C07056_O*C07055*C07056,19);
%GETFREQS(N20*C07057_O*C07058_O*C07057*C07058,20);
%GETFREQS(N21*C07060_O*C07062_O*C07063_O*C07060*C07062*C07063,21);
%GETFREQS(N22*C07065_O*C07066_O*C07067_O*C07065*C07066*C07067,22);
%GETFREQS(N23*C07068_O*C07069_O*C07070_O*C07068*C07069*C07070,23);
%GETFREQS(N24*C07071_O*C07072_O*C07073_O*C07071*C07072*C07073,24);
%GETFREQS(N25*C07074_O*C07075_O*C07076_O*C07074*C07075*C07076,25);
%GETFREQS(N26*C07077_O*C07078_O*C07077*C07078,26);
%GETFREQS(N27*C07081_O*C07082_O*C07081*C07082,27);
```

F.3 CODINGSCHEME\CSCHM07C.FMT - INCLUDE FILE FOR CODING SCHEME.

```
LENGTH MPRID  $8
C07001
C07002A
C07002B
C07002C
C07002D
C07002E
C07002F
C07002G
C07002H
C07002I
C07002J
C07002K
C07003
C07004
C07005
C07006
C07007
C07008
C07009
C07010
C07011
C07012
C07013

C07014
C07015
C07016
C07017
C07018
C07019
C07020
C07021A C07021B C07021C C07021D C07021E C07021F C07021G C07021H C07021I
C07022
C07023
C07024
C07025
C07026
C07027
C07028
C07029
C07030
C07031
C07032
C07033
C07034
C07035
C07036
C07037
C07038
C07039
C07040
C07041
C07042
C07043
C07044
C07045
C07046
C07047
C07048
C07049
C07050
C07051
C07052
C07053
C07054
C07055
C07056
C07057
C07058
C07059
```

```
C07060
C07061
C07062
C07063
C07064
C07065
C07066
C07067
C07068
C07069
C07070
C07071
C07072
C07073
C07074
C07075
C07076
C07077
C07078
C07079A C07079B C07079C C07079D C07079E C07079F C07079G C07079H
C07080A
C07080B
C07080C
C07080D
C07081
C07082
C07083F
C07083I
C07084
C07085
C07086
C07087
C07087A
C07087B
C07087C
C07087D
C07087E
C07088A
C07088B
C07088C
C07088D
C07088E
C07089
C07090
C07091
C07092
C07093
  4 ;


/*  Formats for original answers to survey questions,
     after variables have been recoded */

     Format      C07001_O  C07001   CYN1_.
                           C07002A  CMARK.
                           C07002B  CMARK.
                           C07002C  CMARK.
                           C07002D  CMARK.
                           C07002E  CMARK.
                           C07002F  CMARK.
                           C07002G  CMARK.
                           C07002H  CMARK.
                           C07002I  CMARK.
                           C07002J  CMARK.
                           C07002K  CMARK.
                 C07003_O  C07003   CPLAN1_.
                 C07004_O  C07004   CENROLL.
                 C07005_O  C07005   CTYPE.
                 C07006_O  C07006   CYN1_.
                 C07007_O  C07007   CRATE1_.
                 C07008_O  C07008   CYN1_.
                 C07009_O  C07009   CPROB1_.
                 C07010_O  C07010   CYN1_.
```

```
   C07011_O  C07011   CYN1_.
   C07012_O  C07012   CYN1_.
C07013_O  C07013   CYN1_.
   C07014_O  C07014   CYN1_.
   C07015_O  C07015   CPROB3_.
   C07016_O  C07016   CYN1_.
   C07017_O  C07017   CRATE2_.
   C07018_O  C07018   CYN5_.
   C07019_O  C07019   CYN1_.
   C07020_O  C07020   CYN1_.
             C07021A  CMARK.
             C07021B  CMARK.
             C07021C  CMARK.
             C07021D  CMARK.
             C07021E  CMARK.
             C07021F  CMARK.
             C07021G  CMARK.
             C07021H  CMARK.
             C07021I  CMARK.
   C07022_O  C07022   COFTN8_.
   C07023_O  C07023   CYN1_.
   C07024_O  C07024   COFTN1_.
   C07025_O  C07025   CYN1_.
   C07026_O  C07026   COFTN2_.
   C07027_O  C07027   CYN1_.
   C07028_O  C07028   COFTN3_.
   C07029_O  C07029   CTIMES.
   C07030_O  C07030   CDOCCLIN.
   C07031_O  C07031   CYN6_.
   C07032_O  C07032   CPROB4_.
   C07033_O  C07033   CYN6_.
   C07034_O  C07034   CPROB4a_.
   C07035_O  C07035   COFTN4_.
   C07036_O  C07036   COFTN4_.
   C07037_O  C07037   COFTN4_.
   C07038_O  C07038   COFTN4_.
   C07039_O  C07039   COFTN4_.
   C07040_O  C07040   COFTN4_.
   C07041_O  C07041   CYN6_.
   C07042_O  C07042   COFTN5_.
   C07043_O  C07043   COFTN4_.
   C07044_O  C07044   CYN6_.
   C07045_O  C07045   COFTN6_.
   C07046_O  C07046   COFTN6_.
   C07047_O  C07047   COFTN6_.
   C07048_O  C07048   CYN6_.
   C07049_O  C07049   COFTN6_.
   C07050_O  C07050   CRATE3_.
   C07051_O  C07051   CYN1_.
   C07052_O  C07052   CYN1_.
   C07053_O  C07053   CYN1_.
   C07054_O  C07054   CPROB6_.
   C07055_O  C07055   CYN1_.
   C07056_O  C07056   CPROB7_.
   C07057_O  C07057   CYN1_.
   C07058_O  C07058   CPROB8_.
   C07059_O  C07059   CRATE4_.
   C07060_O  C07060   CYN1_.
   C07061_O  C07061   CYN1_.
   C07062_O  C07062   CPROB5_.
   C07063_O  C07063   CYN1_.
   C07064_O  C07064   CHEALTH.
   C07065_O  C07065   CYN1_.
   C07066_O  C07066   CYN1_.
   C07067_O  C07067   CYN1_.
   C07068_O  C07068   CYN1_.
   C07069_O  C07069   CYN1_.
   C07070_O  C07070   CYN1_.
   C07071_O  C07071   CYN1_.
   C07072_O  C07072   CYN1_.
   C07073_O  C07073   CYN1_.
   C07074_O  C07074   CYN1_.
   C07075_O  C07075   CYN1_.
   C07076_O  C07076   CYN1_.
```

```
                C07077_O  C07077   CYN1_.
                C07078_O  C07078   CYN1_.
                          C07079A  CMARK.
                          C07079B  CMARK.
                          C07079C  CMARK.
                          C07079D  CMARK.
                          C07079E  CMARK.
                          C07079F  CMARK.
                          C07079G  CMARK.
                          C07079H  CMARK.
                          C07080A  CMARK.
                          C07080B  CMARK.
                          C07080C  CMARK.
                          C07080D  CMARK.
                C07081_O  C07081   CYN1_.
                C07082_O  C07082   CYN1_.
                C07083FO  C07083F  Cfeet.
                C07083IO  C07083I  Cinch.
                C07084_O  C07084   Cwgt.

                C07085_O  C07085   CAGE2_.
                C07086_O  C07086   CSEX.
                C07087_O  C07087   CHISP.
                          C07087A  CMARK.
                          C07087B  CMARK.
                          C07087C  CMARK.
                          C07087D  CMARK.
                          C07087E  CMARK.
                          C07088A  CMARK.
                          C07088B  CMARK.
                          C07088C  CMARK.
                          C07088D  CMARK.
                          C07088E  CMARK.
                C07089_O  C07089   CAGE1_.
                C07090_O  C07090   CSEX.
                C07091_O  C07091   CRELEDU.
                C07092_O  C07092   CRELPOL.
                C07093_O  C07093   CRELATE.

                e1 e2 e3 e4 e5 e6 e7
                 $e_.
          ;


LABEL C07001_O='Are you adult responsible for child'
      C07001  ='Are you adult responsible for child'
      C07002AO='Child covered by TRICARE Prime'
      C07002A ='Child covered by TRICARE Prime'
      C07002BO='Child covered by TRICARE Extra/Standard'
      C07002B ='Child covered by TRICARE Extra/Standard'
      C07002CO='Child covered by Civilian HMO'
      C07002C ='Child covered by Civilian HMO'
      C07002DO='Child covered by Other Civilian Ins.'
      C07002D ='Child covered by Other Civilian Ins.'
      C07002EO='Child covered by Medicaid'
      C07002E ='Child covered by Medicaid'
      C07002FO='Child covered by USFHP'
      C07002F ='Child covered by USFHP'
      C07002GO='Child covered by Federal Employee Health Ben.'
      C07002G ='Child covered by Federal Employee Health Ben.'
      C07002JO='Gvrnmnt hlth ins from a Non-US country'
      C07002J ='Gvrnmnt hlth ins from a Non-US country'
      C07002KO='TRICARE Reserve Select'
      C07002K ='TRICARE Reserve Select'
      C07002HO='Not Sure Child used health pln last 12 mos'
      C07002H ='Not Sure Child used health pln last 12 mos'
      C07002IO='Child not cvrd by health pln last 12 mos'
      C07002I ='Child not cvrd by health pln last 12 mos'
      C07003_O='Which hlth plan did you use most '
      C07003  ='Which hlth plan did you use most '
      C07004_O='Past 12 mos,# mos in a row cvrd w/Pln'
      C07004  ='Past 12 mos,# mos in a row cvrd w/Pln'
      C07005_O='Type of facility child used most often'
      C07005  ='Type of facility child used most often'
```

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C07006_O='Does child have personal Dr/Nurse'
C07006  ='Does child have personal Dr/Nurse'
C07007_O='Rating of childs personal Dr/Nurse'
C07007  ='Rating of childs personal Dr/Nurse'
C07008_O='Have same personal Dr/Nurse before'
C07008  ='Have same personal Dr/Nurse before'
C07009_O='How much prblem to get personal Dr/Nurse'
C07009  ='How much prblem to get personal Dr/Nurse'
C07010_O='Talk about feeling/growing/behaving'
C07010  ='Talk about feeling/growing/behaving'
C07011_O='Chld has medical/behavr/oth health cndtn'
C07011  ='Chld has medical/behavr/oth health cndtn'
C07012_O='Dr undrstnds med/beh/oth affct chld life'
C07012  ='Dr undrstnds med/beh/oth affct chld life'
C07013_O='Dr undrstnds med/beh/oth affct fmly life'
C07013  ='Dr undrstnds med/beh/oth affct fmly life'
C07014_O='Did you think child needed to see spclst'
C07014  ='Did you think child needed to see spclst'
C07015_O='How much prblm to see spclst child needed to see'
C07015  ='How much prblm to see spclst child needed to see'
C07016_O='In last 12 mos did child see specialist'
C07016  ='In last 12 mos did child see specialist'
C07017_O='Rating of specialist seen most often'
C07017  ='Rating of specialist seen most often'
C07018_O='Specialist same as personal Dr'
C07018  ='Specialist same as personal Dr'
C07019_O='You/Dr thought child needed mental hlth spcl'
C07019  ='You/Dr thought child needed mental hlth spcl'
C07020_O='Child saw mental hlth spcl(MHSp)'
C07020  ='Child saw mental hlth spcl(MHSp)'
C07021AO='Rsn child not see MHSp: No need'
C07021A ='Rsn child not see MHSp: No need'
C07021BO='Rsn child not see MHSp: Child dr able to help'
C07021B ='Rsn child not see MHSp: Child dr able to help'
C07021CO='Rsn child not see MHSp: Spcl location unknown'
C07021C ='Rsn child not see MHSp: Spcl location unknown'
C07021DO='Rsn child not see MHSp: Not enough choice of Spcl'
C07021D ='Rsn child not see MHSp: Not enough choice of Spcl'
C07021EO='Rsn child not see MHSp: Spcls too far'
C07021E ='Rsn child not see MHSp: Spcls too far'
C07021FO='Rsn child not see MHSp: Wanted Spcl not in Hlth pln'
C07021F ='Rsn child not see MHSp: Wanted Spcl not in Hlth pln'
C07021GO='Rsn child not see MHSp: Unable to get convenient appt'
C07021G ='Rsn child not see MHSp: Unable to get convenient appt'
C07021HO='Rsn child not see MHSp: Dr not taking new patients'
C07021H ='Rsn child not see MHSp: Dr not taking new patients'
C07021IO='Rsn child not see MHSp: Other'
C07021I ='Rsn child not see MHSp: Other'
C07022_O='How often child get needed care from MHS'
C07022  ='How often child get needed care from MHS'
C07023_O='Call during reg. Hrs to get help/advice'
C07023  ='Call during reg. Hrs to get help/advice'
C07024_O='Called during reg Hrs did you get hlp'
C07024  ='Called during reg Hrs did you get hlp'
C07025_O='Have illness/injury need care right away'
C07025  ='Have illness/injury need care right away'
C07026_O='Get needed care as soon as wanted'
C07026  ='Get needed care as soon as wanted'
C07027_O='Make appt for regular/routine hlthcre'
C07027  ='Make appt for regular/routine hlthcre'
C07028_O='How oftn get appt for care soon as wnted'
C07028  ='How oftn get appt for care soon as wnted'
C07029_O='Times to ER'
C07029  ='Times to ER'
C07030_O='Times to Dr office/Clinic (excluding ER)'
C07030  ='Times to Dr office/Clinic (excluding ER)'
C07031_O='Needed Any Care, test, or treatment'
C07031  ='Needed Any Care, test, or treatment'
C07032_O='Problem to get necessary care'
C07032  ='Problem to get necessary care'
C07033_O='Needed hlth plan apprvl-care/test/treatmnt'
C07033  ='Needed hlth plan apprvl-care/test/treatmnt'
C07034_O='Problem wait for approval'
C07034  ='Problem wait for approval'
```

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C07035_O='Taken to exam room within 15 minutes'
C07035  ='Taken to exam room within 15 minutes'
C07036_O='How oftn staff treat w/courtesy &respect'
C07036  ='How oftn staff treat w/courtesy &respect'
C07037_O='How oftn were staff helpful'
C07037  ='How oftn were staff helpful'
C07038_O='How oftn did staff listen carefully'
C07038  ='How oftn did staff listen carefully'
C07039_O='How oftn did staff explain things to you'
C07039  ='How oftn did staff explain things to you'
C07040_O='How oftn staff respect what had to say'
C07040  ='How oftn staff respect what had to say'
C07041_O='Child able to talk to Dr'
C07041  ='Child able to talk to Dr'
C07042_O='Dr explain in way for child to undrstnd'
C07042  ='Dr explain in way for child to undrstnd'
C07043_O='How oftn spend enough time w/child'
C07043  ='How oftn spend enough time w/child'
C07044_O='Questions/concerns about chlds hlth/care'
C07044  ='Questions/concerns about chlds hlth/care'
C07045_O='How oftn Dr make it easy discuss cncrns'
C07045  ='How oftn Dr make it easy discuss cncrns'
C07046_O='How oftn get specific info from Dr'
C07046  ='How oftn get specific info from Dr'
C07047_O='How oftn your questions answered by Dr'
C07047  ='How oftn your questions answered by Dr'
C07048_O='Last 12 mos, chlds hlthcr decsns made '
C07048  ='Last 12 mos, chlds hlthcr decsns made '
C07049_O='How oftn Dr involve you as much as wntd'
C07049  ='How oftn Dr involve you as much as wntd'
C07050_O='Rating of childs healthcare'
C07050  ='Rating of childs healthcare'
C07051_O='Use more thn one kind prvder/hlth srvice'
C07051  ='Use more thn one kind prvder/hlth srvice'
C07052_O='Anyone help coordinate childs care'
C07052  ='Anyone help coordinate childs care'
C07053_O='Look for info/written material'
C07053  ='Look for info/written material'
C07054_O='Find/understand info in written material'
C07054  ='Find/understand info in written material'
C07055_O='Call customer service to get info'
C07055  ='Call customer service to get info'
C07056_O='Problem get help when call customer svc'
C07056  ='Problem get help when call customer svc'
C07057_O='Experience with paperwork'
C07057  ='Experience with paperwork'
C07058_O='Problem with paperwork'
C07058  ='Problem with paperwork'
C07059_O='Rating of exprience with child hlth plan'
C07059  ='Rating of exprience with child hlth plan'
C07060_O='Get prescription/refill'
C07060  ='Get prescription/refill'
C07061_O='Child get prescription to help emotions/behavior'
C07061  ='Child get prescription to help emotions/behavior'
C07062_O='Problem prescription/refill'
C07062  ='Problem prescription/refill'
C07063_O='Help get prescription/refill'
C07063  ='Help get prescription/refill'
C07064_O='Rate child overall health'
C07064  ='Rate child overall health'
C07065_O='Child use medicine prescribed by Dr'
C07065  ='Child use medicine prescribed by Dr'
C07066_O='Medicine b/c medical,behavioral,other'
C07066  ='Medicine b/c medical,behavioral,other'
C07067_O='Medicine b/c cndtn expected last>=12 mos'
C07067  ='Medicine b/c cndtn expected last>=12 mos'
C07068_O='Mre medical,mntl,education svcs thn usual'
C07068  ='Mre medical,mntl,education svcs thn usual'
C07069_O='Use svcs b/c medical, behavioral, oth'
C07069  ='Use svcs b/c medical, behavioral, oth'
C07070_O='Svcs b/c condition expected last>=12 mos'
C07070  ='Svcs b/c condition expected last>=12 mos'
C07071_O='Limited/prevented in ability'
C07071  ='Limited/prevented in ability'
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C07072_O='Limited b/c medical, behavioral, other'
C07072  ='Limited b/c medical, behavioral, other'
C07073_O='Limited b/c condition expected last>=1yr'
C07073  ='Limited b/c condition expected last>=1yr'
C07074_O='Get special therapy'
C07074  ='Get special therapy'
C07075_O='Therapy b/c medical, behavioral, other'
C07075  ='Therapy b/c medical, behavioral, other'
C07076_O='Therapy b/c condition expected last>=1yr'
C07076  ='Therapy b/c condition expected last>=1yr'
C07077_O='Problem for which gets trtmnt/counseling'
C07077  ='Problem for which gets trtmnt/counseling'
C07078_O='Trtmnt/counseling b/c conditn last>=1yr'
C07078  ='Trtmnt/counseling b/c conditn last>=1yr'
C07079AO='Dr/nurse: child has anxiety problems'
C07079A ='Dr/nurse: child has anxiety problems'
C07079BO='Dr/nurse: child has attention problems'
C07079B ='Dr/nurse: child has attention problems'
C07079CO='Dr/nurse: child has conduct problems'
C07079C ='Dr/nurse: child has conduct problems'
C07079DO="Dr/nurse: child has depression problems"
C07079D ="Dr/nurse: child has depression problems"
C07079EO='Dr/nurse: child has dvlpmnt dly/mntl rtrdatn'
C07079E ='Dr/nurse: child has dvlpmnt dly/mntl rtrdatn'
C07079FO='Dr/nurse: child has leaarning prblms/dsblty'
C07079F ='Dr/nurse: child has leaarning prblms/dsblty'
C07079GO='Dr/nurse: child has sleep disturbance'
C07079G ='Dr/nurse: child has sleep disturbance'
C07079HO="Dr/nurse: child has other problems"
C07079H ="Dr/nurse: child has other problems"
C07080AO='Child receives services under PFPWD/ECHO'
C07080A ='Child receives services under PFPWD/ECHO'
C07080BO='Child receives services under ICMP-PEC'
C07080B ='Child receives services under ICMP-PEC'
C07080CO='Child receives services under CCTP'
C07080C ='Child receives services under CCTP'
C07080DO="Child doesn't receive PFPWD/ECHO/ICMP-PEC/CCTP"
C07080D ="Child doesn't receive PFPWD/ECHO/ICMP-PEC/CCTP"
C07081_O="Child's disorder requires care frm spclst"
C07081  ="Child's disorder requires care frm spclst"
C07082_O='Family enrolled in EFMP'
C07082  ='Family enrolled in EFMP'
C07083FO="Child's height without shoes on-feet"
C07083F ="Child's height without shoes on-feet"
C07083IO="Child's height without shoes on-inch"
C07083I ="Child's height without shoes on-inch"
C07084  ="Child's weight without shoes on"
C07084  ="Child's weight without shoes on"

C07085_O='How old is your child'
C07085  ='How old is your child'
C07086_O='Is child male or female'
C07086  ='Is child male or female'
C07087_O='Is child Hispanic/Latino'
C07087  ='Is child Hispanic/Latino'
C07087AO='Child Hispanic/Latino: No'
C07087A ='Child Hispanic/Latino: No'
C07087BO='Child Hspnc: Mexican/Mexican American/Chicano'
C07087B ='Child Hspnc: Mexican/Mexican American/Chicano'
C07087CO='Child Hspnc: Puerto Rican'
C07087C ='Child Hspnc: Puerto Rican'
C07087DO='Child Hspnc: Cuban'
C07087D ='Child Hspnc: Cuban'
C07087EO='Child Hspnc: Other Spanish/Hispanic/Latino'
C07087E ='Child Hspnc: Other Spanish/Hispanic/Latino'
C07088AO='Child race:White'
C07088A ='Child race:White'
C07088BO='Child race:Black or African American'
C07088B ='Child race:Black or African American'
C07088CO='Child race:Am. Indian/Alaskan'
C07088C ='Child race:Am. Indian/Alaskan'
C07088DO='Child race:Asian'
C07088D ='Child race:Asian'
C07088EO='Child race:Native Hawaiian/Pacific Islnd'
```

```
C07088E ='Child race:Native Hawaiian/Pacific Islnd'
C07089_O='Your age now'
C07089  ='Your age now'
C07090_O='Are you male or female'
C07090  ='Are you male or female'
C07091_O='Highest grade/level you completed'
C07091  ='Highest grade/level you completed'
C07092_O='How related to policyholder'
C07092  ='How related to policyholder'
C07093_O='How related to child'
C07093  ='How related to child'

N1A ="Coding Scheme Note 1A"
N1  ="Coding Scheme Note 1"
N2  ="Coding Scheme Note 2"
N3  ="Coding Scheme Note 3"
N4  ="Coding Scheme Note 4"
N5  ="Coding Scheme Note 5"
N6  ="Coding Scheme Note 6"
N7  ="Coding Scheme Note 7"
N8  ="Coding scheme Note 8"
N9  ="Coding scheme Note 9"
N10 ="Coding Scheme Note 10"
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"
N16 ="Coding Scheme Note 16"
N17 ="Coding Scheme Note 17"
N18 ="Coding Scheme Note 18"
N19 ="Coding Scheme Note 19"
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"
N26 ="Coding Scheme Note 26"
N27 ="Coding Scheme Note 27"

MISS_1="Count of: Violates Skip Pattern"
MISS_4="Count of: Incomplete grid error"
MISS_5="Count of: Dont know or not sure"
MISS_6="Count of: Not applicable - valid skip"
MISS_7="Count of: Out-of-range error"
MISS_8="Count of: Multiple response error"
MISS_9="Count of: No response - invalid skip"
MISS_TOT= "Total number of missing responses"

;
```

F.4 WEIGHTING\SELECTC.SAS - CREATE RECORD SELECTION FLAG FOR RECORD SELECTION.

```
***************************************************************************
*
* PROGRAM:  SELECTC.SAS
* TASK:     2004 CHILD DOD HEALTH CARE SURVEY ANALYSIS (6077-220)
* PURPOSE:  ASSIGN FINAL STATUS FOR RECORD SELECTION PURPOSES.
* WRITTEN:  12/14/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 08/31/2001 BY KEITH RATHBUN, Adapted from the Adult 2000
*              quarterly version to accomodate the Child Q3 2000 survey.
*           2) 09/16/2002 BY KEITH RATHBUN, Updated for Child Q3
*              2002 Survey.  Added FLAG_FIN = 23,24 for FNSTATUS = 20.
*           3) 09/18/2003 BY KEITH RATHBUN, Updated for Child Q3
*              2003 Survey.
*           4) 09/17/2004 BY KEITH RATHBUN, Updated for Child Q3
*              2004 Survey.
*           5) 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 CDead.sd2 file.
*
* INPUTS:   1) CSCHM06C.SD2 - 2007 FY Q3 Child DOD Health Survey Data
*
* OUTPUTS:  1) SELECTC.SD2 - 2007 FY Q3 Child DOD Health Survey Data w/FNSTATUS
*
***************************************************************************
*;
LIBNAME IN     v612  "..\..\DATA\CFINAL";
LIBNAME OUT    v612  "..\..\DATA\CFINAL";
LIBNAME LIBRARY v612 "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

PROC SORT DATA=IN.CSCHM07C OUT=TEMPC1; BY MPRID; RUN;

DATA TEMPC2 OUT.DUPSC;
   SET TEMPC1;
   BY MPRID;
   ************************************************************************
   * Count key variables (Total=22), 50% rule = GE 11
   ************************************************************************;
   ARRAY KEYVAR C07003  C07004  C07005  C07007  C07014
                C07023  C07025  C07027
                C07029  C07030  C07053
                C07055  C07057  C07059  C07064  C07086  C07087
                C07089  C07090  C07091  C07093
                 ;

                 ;
   KEYCOUNT = 0;
   DO I = 1 TO DIM(KEYVAR); DROP I;
      IF KEYVAR(I) NOT IN (.,.A,.O,.I,.B) THEN KEYCOUNT = KEYCOUNT + 1;
   END;
   ************************************************************************
   * Count question 88 (Child's Race) - multiple response item.
   ************************************************************************;
   IF C07088A EQ 1 OR
      C07088B EQ 1 OR
      C07088C EQ 1 OR
      C07088D EQ 1 OR
      C07088E EQ 1 THEN KEYCOUNT + 1;

   ************************************************************************
   * Set flag for duplicates
   ************************************************************************;
   LENGTH DUPFLAG $3;
   DUPFLAG = 'NO';
   IF NOT (FIRST.MPRID AND LAST.MPRID) THEN DUPFLAG = 'YES';

   ************************************************************************
   * Determine final status (FNSTATUS)
   ************************************************************************;
   FNSTATUS = 0;
```

```
   IF FLAG_FIN = 1 THEN DO;
      ************************************************************
      **** APPLY THE COMPLETE QUESTIONNAIRE RULE (50% OF KEY   ****
      **** VARIABLES).                                         ****
      ************************************************************;
      IF KEYCOUNT GE 11 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;
   END;
   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;

   IF DUPFLAG = 'YES' THEN OUTPUT OUT.DUPSC;
   ELSE OUTPUT TEMPC2;
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.DUPSC;
   BY MPRID FNSTATUS;
RUN;

DATA DEDUPED;
   SET OUT.DUPSC;
   BY MPRID FNSTATUS;
   IF FIRST.MPRID; *KEEP only the first - most complete questionaire;
RUN;

DATA OUT.SELECTC;
   SET TEMPC2 DEDUPED;

   LABEL FNSTATUS = "Final Status"
         DUPFLAG  = "Multiple Response Indicator"
         STRATUM  = "Sampling STRATUM"
         KEYCOUNT = "# Key Questions Answered (Out of 23)"
        ;
RUN;

TITLE1 "2007 Child DOD Health Care Survey Analysis (6077-220)";
TITLE2 "Program Name: SELECTC.SAS By Keith Rathbun";
TITLE3 "Program Output: SELECTC.SD2";

PROC CONTENTS DATA=OUT.SELECTC; RUN;

PROC FREQ DATA=OUT.SELECTC;
TABLES FNSTATUS KEYCOUNT FLAG_FIN
       FNSTATUS*KEYCOUNT*FLAG_FIN
   /MISSING LIST;
RUN;
```

F.5 CONSTRUCT\CREATBMI.SAS - CREATE BMI VALUES.

```
*************************************************************************
*
* PROGRAM:  CREATBMI.SAS
* TASK:     QUARTERLY DOD HEALTH CARE SURVEY ANALYSIS (6077-410)
* PURPOSE:  CALCULATES CHILD BMI VALUES.
* WRITTEN:  11/14/2004 BY REBECCA NYMAN
*
* MODIFIED: 1) 12/06/2004 BY JACQUELINE AGUFA-MALOBA, Updated to run on DOD
*              computer.
*           2) 12/27/05 BY LUCY LU. UPDATED FOR Q3 2005 CHILD CONSTRUCT PROGRAM
*           3) 9/27/06 BY JACQUELINE AGUFA-MALOBA. UPDATED FOR Q3 2006 CHILD CONSTRUCT PROGRAM
*
* INPUTS:   1) SELECTC.SD2 - 2006 Child DOD Health Survey Data w/FNSTATUS
*           2) SAMPLC02.SD2 - Child (Q) Sample file
*
* OUTPUTS:  1) CREATBMI.SD2 - 2006 Child BMI values
*
*************************************************************************
*;
libname inR     V8   "G:\Q4FY2007\";
LIBNAME IN      V612 "..\..\DATA\CFINAL";
LIBNAME OUT     V612 "..\..\DATA\CFINAL";
LIBNAME LIBRARY V612 "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT SOURCE2;


Proc Format;
  Value Sex
    1 = 'Male'
    2 = 'Female';

  Value over
    4 = 'overweight'
    3 = 'at-risk'
    2 = 'normal'
    1 = 'underweight';

  value exclude
    1 = 'plausible'
    2 = 'not plausible';
run;

PROC SORT DATA=IN.SELECTC  OUT=SELECTC; BY MPRID; RUN;
PROC SORT DATA=IN.framec   OUT=framec(KEEP=MPRID PNBRTHDT); BY MPRID; RUN;

DATA BMIINPUT;
   MERGE framec (in=SMP)
         SELECTC  (in=DAT)
          ;
   BY MPRID;

   IF DAT AND SMP;
RUN;


data bmiInput2 ;
  set BMIINPUT;
  fieldate='01jun2007'd;
  year = INPUT(substr (PNBRTHDT,1,4),4.);
  month = INPUT(substr (PNBRTHDT,5,2),2.);
  day = INPUT(substr (PNBRTHDT,7,2),2.);
  newbday = MDY (month, day, year);

  /*The following variables must be named as such in order for the
    gc-calculate program to run*********************************/

*  agemos = intck ('month', newbday, fieldate)
           - (day(fieldate) < day(newbday));

   agemos = C07085*12;
```

```
      if C07086 = 1 then sex = 1;
      else if C07086 = 2 then sex = 2;


      IF C07083F IN (.O) THEN C07083F = .;
      IF C07083I IN (.O) THEN C07083I = .;
      IF C07084  IN (.O) THEN C07084  = .;

      height = ((C07083F*12)+ C07083I)* 2.54; /*Height in cenimeters*/

      recumbnt = 0;

      weight = C07084 * .4536; /*Weight in Kilograms*/

      headcir = .;

      format fieldate mmddyy8.;
    run;


    /*This is the CDC's program titled "gc-setup.sas", which can be downloaded on their web site.
    It must be run with "gc-calculate.sas", which can also be downloaded at
    http://www.cdc.gov/nccdphp/dnpa/growthcharts/sas.htm*/

    *%let datalib="..\..\DATA\CFINAL";  **** Subdirectory for your existing dataset;
    %let datain=bmiINPUT2;             **** The name of your existing SAS dataset;
    %let dataout=cdctest;              **** The name of the dataset you wish to put
                                                the results into;
    %let saspgm='gc-calculate.sas';
                                        **** Subdirectory for the downloaded program
                                                gc-calculate.sas;
    *Libname mydata &datalib;

    data _INDATA; set &datain;
    %include &saspgm;

    data &dataout; set _INDATA;

    DATA OUT.CREATBMI (KEEP=MPRID BMIPCT OVER EXCLUDE);
    SET cdctest;

    /*notes if z scores are plausible values*/
    exclude = 1; /*Any exlude GE 2 are implausible values*/
    if C07083F IN (.O,.) or C07083I IN (.O,.) or C07084 IN (.O,.) then exclude = 2; /*height/wieght
values*/
    else if bmiz lt -4 or bmiz gt 5 then exclude = 3; /*bmi*/
    else if waz lt -5 or waz gt 3 then exclude = 4; /*weight for age*/
    else if haz lt - 5 or haz gt 3 then exclude = 5; /*height for age*/

    /*categorizes BMI*/


    IF exclude EQ 1 THEN DO;
      if BMIPCT ge 95 then over = 4;
      else if 85 le BMIPCT lt 95 then over = 3;
      else if 5 lt BMIPCT lt 85 then over = 2;
      else if 0 le BMIPCT le 5 then over = 1;
    END;

     PROC FREQ;
       TABLES EXCLUDE*OVER*BMIPCT
               / MISSPRINT LIST;
    TITLE 'CHECK MISSING OVER (XBMICAT)';
    format exclude exclude. OVER over. ;
    run;
```

F.6 CONSTRUCT\GC-CALCULATE.SAS - INCLUDE FILE FOR CREATBMI.SAS. CALCULATE BMI VALUES.

```
**** THIS SAS PROGRAM IS FOR THE CALCULATION OF
     PERCENTILES AND Z-SCORES BASED ON THE CDC
     GROWTH REFERENCE YEAR 2000 ****;

IF AGEMOS GE 0 AND AGEMOS LT 0.5 THEN _AGECAT=0;
  ELSE _AGECAT=INT(AGEMOS+0.5)-0.5;

IF RECUMBNT=1 THEN DO;
  LENGTH=HEIGHT;
  STATURE=.;
END;
 ELSE IF RECUMBNT=0 THEN DO;
  STATURE=HEIGHT;
  LENGTH=.;
 END;
 ELSE IF RECUMBNT=. THEN DO;
  IF AGEMOS NE . THEN DO;
   IF AGEMOS LT 24 THEN DO;
     LENGTH=HEIGHT;
     STATURE=.;
   END;
    ELSE IF AGEMOS GE 24 THEN DO;
     STATURE=HEIGHT;
     LENGTH=.;
    END;
  END;
  ELSE DO;
   IF HEIGHT LT 85 THEN DO;
     LENGTH=HEIGHT;
     STATURE=.;
   END;
    ELSE IF HEIGHT GE 85 THEN DO;
     STATURE=HEIGHT;
     LENGTH=.;
    END;
  END;
 END;

IF WEIGHT=. OR STATURE IN (.,0) THEN BMI=.;
  ELSE BMI=WEIGHT/(STATURE/100)**2;
_ID=_N_;


DATA _INDATA1; SET _INDATA;
PROC SORT DATA=_INDATA1; BY SEX _AGECAT _ID;

DATA _INDATA2; SET _INDATA;
IF LENGTH=. THEN _HTCAT=.;
  ELSE IF LENGTH GE 45 AND LENGTH LT 45.5 THEN _HTCAT=45;
  ELSE _HTCAT=INT(LENGTH+0.5)-0.5;
PROC SORT DATA=_INDATA2; BY SEX _HTCAT _ID;

DATA _INDATA3; SET _INDATA;
IF STATURE=. THEN _HTCAT=.;
  ELSE IF STATURE GE 77 AND STATURE LT 77.5 THEN _HTCAT=77;
  ELSE _HTCAT=INT(STATURE+0.5)-0.5;
PROC SORT DATA=_INDATA3; BY SEX _HTCAT _ID;


DATA LGFAGE;  **DATA FILE FOR LENGTH-FOR-AGE;
INFILE CARDS PAD;
INPUT SEX _AGEMOS1 _LLG1 _MLG1 _SLG1 _AGEMOS2 _LLG2 _MLG2 _SLG2;
CARDS;
1       0.0       1.267004226       49.988884080       0.053112191       0.5       0.511237696
52.695975300      0.048692684
1       0.5       0.511237696       52.695975300       0.048692684       1.5       -0.452244460
56.628428550      0.044116830
1       1.5       -0.452244460       56.628428550       0.044116830       2.5       -0.990594599
59.608953430      0.041795583
1       2.5       -0.990594599       59.608953430       0.041795583       3.5       -1.285837689
62.077000270      0.040454126
```

1	3.5	-1.285837689	62.077000270	0.040454126	4.5	-1.430312380	64.216864100	0.039633879
1	4.5	-1.430312380	64.216864100	0.039633879	5.5	-1.476575470	66.125314900	0.039123813
1	5.5	-1.476575470	66.125314900	0.039123813	6.5	-1.456837849	67.860179900	0.038811994
1	6.5	-1.456837849	67.860179900	0.038811994	7.5	-1.391898768	69.459084580	0.038633209
1	7.5	-1.391898768	69.459084580	0.038633209	8.5	-1.295714590	70.948039120	0.038546833
1	8.5	-1.295714590	70.948039120	0.038546833	9.5	-1.177919048	72.345861110	0.038526262
1	9.5	-1.177919048	72.345861110	0.038526262	10.5	-1.045326049	73.666654100	0.038553387
1	10.5	-1.045326049	73.666654100	0.038553387	11.5	-0.902800887	74.921297170	0.038615501
1	11.5	-0.902800887	74.921297170	0.038615501	12.5	-0.753908107	76.118375360	0.038703461
1	12.5	-0.753908107	76.118375360	0.038703461	13.5	-0.601263523	77.264799110	0.038810557
1	13.5	-0.601263523	77.264799110	0.038810557	14.5	-0.446805039	78.366223090	0.038931784
1	14.5	-0.446805039	78.366223090	0.038931784	15.5	-0.291974772	79.427340500	0.039063356
1	15.5	-0.291974772	79.427340500	0.039063356	16.5	-0.137847670	80.452094920	0.039202382
1	16.5	-0.137847670	80.452094920	0.039202382	17.5	0.014776155	81.443836030	0.039346629
1	17.5	0.014776155	81.443836030	0.039346629	18.5	0.165304169	82.405436430	0.039494365
1	18.5	0.165304169	82.405436430	0.039494365	19.5	0.313301809	83.339380630	0.039644238
1	19.5	0.313301809	83.339380630	0.039644238	20.5	0.458455471	84.247833940	0.039795189
1	20.5	0.458455471	84.247833940	0.039795189	21.5	0.600544631	85.132696580	0.039946388
1	21.5	0.600544631	85.132696580	0.039946388	22.5	0.739438953	85.995648800	0.040097181
1	22.5	0.739438953	85.995648800	0.040097181	23.5	0.875000447	86.838175100	0.040247060
1	23.5	0.875000447	86.838175100	0.040247060	24.5	1.007208070	87.661609340	0.040395626
1	24.5	1.007208070	87.661609340	0.040395626	25.5	0.837251351	88.452472820	0.040577525
1	25.5	0.837251351	88.452472820	0.040577525	26.5	0.681492975	89.223264340	0.040723122
1	26.5	0.681492975	89.223264340	0.040723122	27.5	0.538779654	89.975492280	0.040833194
1	27.5	0.538779654	89.975492280	0.040833194	28.5	0.407697153	90.710408530	0.040909059
1	28.5	0.407697153	90.710408530	0.040909059	29.5	0.286762453	91.429077620	0.040952433
1	29.5	0.286762453	91.429077620	0.040952433	30.5	0.174489485	92.132423790	0.040965330
1	30.5	0.174489485	92.132423790	0.040965330	31.5	0.069444521	92.821271670	0.040949976
1	31.5	0.069444521	92.821271670	0.040949976	32.5	-0.029720564	93.496379460	0.040908737
1	32.5	-0.029720564	93.496379460	0.040908737	33.5	-0.124251789	94.158465460	0.040844062
1	33.5	-0.124251789	94.158465460	0.040844062	34.5	-0.215288396	94.808229230	0.040758431
1	34.5	-0.215288396	94.808229230	0.040758431	35.5	-0.303854340	95.446369810	0.040654312
1	35.5	-0.303854340	95.446369810	0.040654312	36.5	-0.390918369	96.073591060	0.040534120
2	0.0	-1.295960857	49.286396120	0.050085560	0.5	-0.809249882	51.683580570	0.046818545
2	0.5	-0.809249882	51.683580570	0.046818545	1.5	-0.050782985	55.286128130	0.043443900
2	1.5	-0.050782985	55.286128130	0.043443900	2.5	0.476851407	58.093819060	0.041716103
2	2.5	0.476851407	58.093819060	0.041716103	3.5	0.843299612	60.459807630	0.040705173

```
    2       3.5       0.843299612       60.459807630       0.040705173       4.5       1.097562257
62.536696560      0.040079765
    2       4.5       1.097562257       62.536696560       0.040079765       5.5       1.272509641
64.406327620      0.039686845
    2       5.5       1.272509641       64.406327620       0.039686845       6.5       1.390428859
66.118415530      0.039444555
    2       6.5       1.390428859       66.118415530       0.039444555       7.5       1.466733925
67.705744190      0.039304738
    2       7.5       1.466733925       67.705744190       0.039304738       8.5       1.512301976
69.191236140      0.039237110
    2       8.5       1.512301976       69.191236140       0.039237110       9.5       1.534950767
70.591639240      0.039221665
    2       9.5       1.534950767       70.591639240       0.039221665       10.5      1.540390875
71.919616730      0.039244672
    2       10.5      1.540390875       71.919616730       0.039244672       11.5      1.532852892
73.185010400      0.039296420
    2       11.5      1.532852892       73.185010400       0.039296420       12.5      1.515509470
74.395643790      0.039369875
    2       12.5      1.515509470       74.395643790       0.039369875       13.5      1.490765028
75.557854400      0.039459832
    2       13.5      1.490765028       75.557854400       0.039459832       14.5      1.460458255
76.676858710      0.039562382
    2       14.5      1.460458255       76.676858710       0.039562382       15.5      1.426006009
77.757009860      0.039674542
    2       15.5      1.426006009       77.757009860       0.039674542       16.5      1.388507095
78.801984060      0.039794010
    2       16.5      1.388507095       78.801984060       0.039794010       17.5      1.348818127
79.814918520      0.039918994
    2       17.5      1.348818127       79.814918520       0.039918994       18.5      1.307609654
80.798515320      0.040048084
    2       18.5      1.307609654       80.798515320       0.040048084       19.5      1.265408149
81.755120920      0.040180162
    2       19.5      1.265408149       81.755120920       0.040180162       20.5      1.222627732
82.686788100      0.040314340
    2       20.5      1.222627732       82.686788100       0.040314340       21.5      1.179594365
83.595324610      0.040449904
    2       21.5      1.179594365       83.595324610       0.040449904       22.5      1.136564448
84.482332060      0.040586283
    2       22.5      1.136564448       84.482332060       0.040586283       23.5      1.093731947
85.349236240      0.040723015
    2       23.5      1.093731947       85.349236240       0.040723015       24.5      1.051272912
86.197316900      0.040859727
    2       24.5      1.051272912       86.197316900       0.040859727       25.5      1.041951175
87.090263180      0.041142161
    2       25.5      1.041951175       87.090263180       0.041142161       26.5      1.012592236
87.957141820      0.041349399
    2       26.5      1.012592236       87.957141820       0.041349399       27.5      0.970541909
88.796018400      0.041500428
    2       27.5      0.970541909       88.796018400       0.041500428       28.5      0.921129988
89.605511500      0.041610508
    2       28.5      0.921129988       89.605511500       0.041610508       29.5      0.868221392
90.384766890      0.041691761
    2       29.5      0.868221392       90.384766890       0.041691761       30.5      0.814544130
91.133417220      0.041753680
    2       30.5      0.814544130       91.133417220       0.041753680       31.5      0.761957977
91.851543600      0.041803562
    2       31.5      0.761957977       91.851543600       0.041803562       32.5      0.711660228
92.539635200      0.041846882
    2       32.5      0.711660228       92.539635200       0.041846882       33.5      0.664323379
93.198544290      0.041887626
    2       33.5      0.664323379       93.198544290       0.041887626       34.5      0.620285102
93.829453920      0.041928568
    2       34.5      0.620285102       93.829453920       0.041928568       35.5      0.579556310
94.433822780      0.041971514
    2       35.5      0.579556310       94.433822780       0.041971514       36.5      0.541980940
95.013357090      0.042017509
    ;

    DATA HTFAGE;  **DATA FILE FOR STATURE-FOR-AGE;
    INFILE CARDS PAD;
    INPUT SEX _AGEMOS1 _LHT1 _MHT1 _SHT1 _AGEMOS2 _LHT2 _MHT2 _SHT2;
    CARDS;
    1       23.5      0.875839864       86.042792680       0.040247430       24.5      1.007208070
86.861609340      0.040395626
```

1	24.5	1.007208070	86.861609340	0.040395626	25.5	0.837251351	87.652472820
0.040577525							
1	25.5	0.837251351	87.652472820	0.040577525	26.5	0.681492975	88.423264340
0.040723122							
1	26.5	0.681492975	88.423264340	0.040723122	27.5	0.538779654	89.175492280
0.040833194							
1	27.5	0.538779654	89.175492280	0.040833194	28.5	0.407697153	89.910408530
0.040909059							
1	28.5	0.407697153	89.910408530	0.040909059	29.5	0.286762453	90.629077620
0.040952433							
1	29.5	0.286762453	90.629077620	0.040952433	30.5	0.174489485	91.332423790
0.040965330							
1	30.5	0.174489485	91.332423790	0.040965330	31.5	0.069444521	92.021271670
0.040949976							
1	31.5	0.069444521	92.021271670	0.040949976	32.5	-0.029720564	92.696379460
0.040908737							
1	32.5	-0.029720564	92.696379460	0.040908737	33.5	-0.124251789	93.358465460
0.040844062							
1	33.5	-0.124251789	93.358465460	0.040844062	34.5	-0.215288396	94.008229230
0.040758431							
1	34.5	-0.215288396	94.008229230	0.040758431	35.5	-0.303854340	94.646369810
0.040654312							
1	35.5	-0.303854340	94.646369810	0.040654312	36.5	-0.390918369	95.273591060
0.040534120							
1	36.5	-0.390918369	95.273591060	0.040534120	37.5	-0.254801167	95.914749290
0.040572876							
1	37.5	-0.254801167	95.914749290	0.040572876	38.5	-0.125654535	96.547343280
0.040616910							
1	38.5	-0.125654535	96.547343280	0.040616910	39.5	-0.003167350	97.171913090
0.040666414							
1	39.5	-0.003167350	97.171913090	0.040666414	40.5	0.112912210	97.788977270
0.040721467							
1	40.5	0.112912210	97.788977270	0.040721467	41.5	0.222754969	98.399028300
0.040782045							
1	41.5	0.222754969	98.399028300	0.040782045	42.5	0.326530126	99.002543380
0.040848042							
1	42.5	0.326530126	99.002543380	0.040848042	43.5	0.424361560	99.599977000
0.040919281							
1	43.5	0.424361560	99.599977000	0.040919281	44.5	0.516353108	100.191764000
0.040995524							
1	44.5	0.516353108	100.191764000	0.040995524	45.5	0.602595306	100.778319800
0.041076485							
1	45.5	0.602595306	100.778319800	0.041076485	46.5	0.683170764	101.360041100
0.041161838							
1	46.5	0.683170764	101.360041100	0.041161838	47.5	0.758158406	101.937305800
0.041251224							
1	47.5	0.758158406	101.937305800	0.041251224	48.5	0.827636736	102.510473500
0.041344257							
1	48.5	0.827636736	102.510473500	0.041344257	49.5	0.891686306	103.079885200
0.041440534							
1	49.5	0.891686306	103.079885200	0.041440534	50.5	0.950391530	103.645864000
0.041539635							
1	50.5	0.950391530	103.645864000	0.041539635	51.5	1.003830006	104.208713000
0.041641136							
1	51.5	1.003830006	104.208713000	0.041641136	52.5	1.052135690	104.768725600
0.041744602							
1	52.5	1.052135690	104.768725600	0.041744602	53.5	1.095366900	105.326163800
0.041849607							
1	53.5	1.095366900	105.326163800	0.041849607	54.5	1.133652119	105.881282300
0.041955723							
1	54.5	1.133652119	105.881282300	0.041955723	55.5	1.167104213	106.434314600
0.042062532							
1	55.5	1.167104213	106.434314600	0.042062532	56.5	1.195845353	106.985476900
0.042169628							
1	56.5	1.195845353	106.985476900	0.042169628	57.5	1.220004233	107.534968000
0.042276619							
1	57.5	1.220004233	107.534968000	0.042276619	58.5	1.239715856	108.082969500
0.042383129							
1	58.5	1.239715856	108.082969500	0.042383129	59.5	1.255121285	108.629645700
0.042488804							
1	59.5	1.255121285	108.629645700	0.042488804	60.5	1.266367398	109.175144100
0.042593311							
1	60.5	1.266367398	109.175144100	0.042593311	61.5	1.273606657	109.719595400
0.042696342							

1	61.5	1.273606657	109.719595400	0.042696342	62.5	1.276996893
110.263113600	0.042797615					
1	62.5	1.276996893	110.263113600	0.042797615	63.5	1.276701119
110.805796700	0.042896877					
1	63.5	1.276701119	110.805796700	0.042896877	64.5	1.272887366
111.347726500	0.042993904					
1	64.5	1.272887366	111.347726500	0.042993904	65.5	1.265728536
111.888969400	0.043088503					
1	65.5	1.265728536	111.888969400	0.043088503	66.5	1.255402281
112.429576100	0.043180513					
1	66.5	1.255402281	112.429576100	0.043180513	67.5	1.242090871
112.969582700	0.043269806					
1	67.5	1.242090871	112.969582700	0.043269806	68.5	1.225981067
113.509010800	0.043356287					
1	68.5	1.225981067	113.509010800	0.043356287	69.5	1.207263978
114.047867800	0.043439893					
1	69.5	1.207263978	114.047867800	0.043439893	70.5	1.186140222
114.586148600	0.043520597					
1	70.5	1.186140222	114.586148600	0.043520597	71.5	1.162796198
115.123831500	0.043598407					
1	71.5	1.162796198	115.123831500	0.043598407	72.5	1.137442868
115.660886200	0.043673359					
1	72.5	1.137442868	115.660886200	0.043673359	73.5	1.110286487
116.197269100	0.043745523					
1	73.5	1.110286487	116.197269100	0.043745523	74.5	1.081536236
116.732925000	0.043815003					
1	74.5	1.081536236	116.732925000	0.043815003	75.5	1.051403740
117.267787900	0.043881929					
1	75.5	1.051403740	117.267787900	0.043881929	76.5	1.020102497
117.801781900	0.043946461					
1	76.5	1.020102497	117.801781900	0.043946461	77.5	0.987847213
118.334821500	0.044008785					
1	77.5	0.987847213	118.334821500	0.044008785	78.5	0.954853043
118.866812300	0.044069112					
1	78.5	0.954853043	118.866812300	0.044069112	79.5	0.921334742
119.397652000	0.044127675					
1	79.5	0.921334742	119.397652000	0.044127675	80.5	0.887505723
119.927230900	0.044184725					
1	80.5	0.887505723	119.927230900	0.044184725	81.5	0.853577030
120.455433000	0.044240532					
1	81.5	0.853577030	120.455433000	0.044240532	82.5	0.819756239
120.982136200	0.044295379					
1	82.5	0.819756239	120.982136200	0.044295379	83.5	0.786246296
121.507213600	0.044349559					
1	83.5	0.786246296	121.507213600	0.044349559	84.5	0.753244292
122.030534200	0.044403374					
1	84.5	0.753244292	122.030534200	0.044403374	85.5	0.720940222
122.551963400	0.044457130					
1	85.5	0.720940222	122.551963400	0.044457130	86.5	0.689515708
123.071364500	0.044511135					
1	86.5	0.689515708	123.071364500	0.044511135	87.5	0.659142731
123.588599000	0.044565693					
1	87.5	0.659142731	123.588599000	0.044565693	88.5	0.629997853
124.103531200	0.044621104					
1	88.5	0.629997853	124.103531200	0.044621104	89.5	0.602203984
124.616016100	0.044677662					
1	89.5	0.602203984	124.616016100	0.044677662	90.5	0.575908038
125.125918200	0.044735646					
1	90.5	0.575908038	125.125918200	0.044735646	91.5	0.551231340
125.633101200	0.044795322					
1	91.5	0.551231340	125.633101200	0.044795322	92.5	0.528279901
126.137431900	0.044856941					
1	92.5	0.528279901	126.137431900	0.044856941	93.5	0.507143576
126.638780400	0.044920730					
1	93.5	0.507143576	126.638780400	0.044920730	94.5	0.487895344
127.137021700	0.044986899					
1	94.5	0.487895344	127.137021700	0.044986899	95.5	0.470590753
127.632036200	0.045055632					
1	95.5	0.470590753	127.632036200	0.045055632	96.5	0.455267507
128.123710400	0.045127088					
1	96.5	0.455267507	128.123710400	0.045127088	97.5	0.441945241
128.611938300	0.045201399					
1	97.5	0.441945241	128.611938300	0.045201399	98.5	0.430625458
129.096622000	0.045278671					

1	98.5	0.430625458	129.096622000	0.045278671	99.5	0.421291648
129.577672300	0.045358979					
1	99.5	0.421291648	129.577672300	0.045358979	100.5	0.413909588
130.055010100	0.045442372					
1	100.5	0.413909588	130.055010100	0.045442372	101.5	0.408427813
130.528566900	0.045528869					
1	101.5	0.408427813	130.528566900	0.045528869	102.5	0.404778262
130.998285700	0.045618459					
1	102.5	0.404778262	130.998285700	0.045618459	103.5	0.402877077
131.464121800	0.045711105					
1	103.5	0.402877077	131.464121800	0.045711105	104.5	0.402625561
131.926043900	0.045806742					
1	104.5	0.402625561	131.926043900	0.045806742	105.5	0.403911270
132.384034800	0.045905281					
1	105.5	0.403911270	132.384034800	0.045905281	106.5	0.406609232
132.838092000	0.046006604					
1	106.5	0.406609232	132.838092000	0.046006604	107.5	0.410583274
133.288229100	0.046110573					
1	107.5	0.410583274	133.288229100	0.046110573	108.5	0.415687443
133.734475900	0.046217028					
1	108.5	0.415687443	133.734475900	0.046217028	109.5	0.421767514
134.176880100	0.046325790					
1	109.5	0.421767514	134.176880100	0.046325790	110.5	0.428662551
134.615507600	0.046436662					
1	110.5	0.428662551	134.615507600	0.046436662	111.5	0.436206531
135.050443300	0.046549430					
1	111.5	0.436206531	135.050443300	0.046549430	112.5	0.444230000
135.481792500	0.046663871					
1	112.5	0.444230000	135.481792500	0.046663871	113.5	0.452561760
135.909681300	0.046779748					
1	113.5	0.452561760	135.909681300	0.046779748	114.5	0.461030578
136.334257700	0.046896817					
1	114.5	0.461030578	136.334257700	0.046896817	115.5	0.469466904
136.755692300	0.047014827					
1	115.5	0.469466904	136.755692300	0.047014827	116.5	0.477704608
137.174179400	0.047133525					
1	116.5	0.477704608	137.174179400	0.047133525	117.5	0.485582720
137.589937800	0.047252654					
1	117.5	0.485582720	137.589937800	0.047252654	118.5	0.492947182
138.003211400	0.047371961					
1	118.5	0.492947182	138.003211400	0.047371961	119.5	0.499652617
138.414270300	0.047491194					
1	119.5	0.499652617	138.414270300	0.047491194	120.5	0.505564115
138.823411400	0.047610108					
1	120.5	0.505564115	138.823411400	0.047610108	121.5	0.510559047
139.230959200	0.047728463					
1	121.5	0.510559047	139.230959200	0.047728463	122.5	0.514528903
139.637266300	0.047846030					
1	122.5	0.514528903	139.637266300	0.047846030	123.5	0.517381177
140.042714000	0.047962592					
1	123.5	0.517381177	140.042714000	0.047962592	124.5	0.519041285
140.447712700	0.048077942					
1	124.5	0.519041285	140.447712700	0.048077942	125.5	0.519454524
140.852702200	0.048191889					
1	125.5	0.519454524	140.852702200	0.048191889	126.5	0.518588072
141.258151500	0.048304259					
1	126.5	0.518588072	141.258151500	0.048304259	127.5	0.516433004
141.664559200	0.048414893					
1	127.5	0.516433004	141.664559200	0.048414893	128.5	0.513006312
142.072452000	0.048523648					
1	128.5	0.513006312	142.072452000	0.048523648	129.5	0.508352901
142.482385200	0.048630402					
1	129.5	0.508352901	142.482385200	0.048630402	130.5	0.502547502
142.894940300	0.048735050					
1	130.5	0.502547502	142.894940300	0.048735050	131.5	0.495696454
143.310724100	0.048837504					
1	131.5	0.495696454	143.310724100	0.048837504	132.5	0.487939275
143.730366300	0.048937694					
1	132.5	0.487939275	143.730366300	0.048937694	133.5	0.479449924
144.154516700	0.049035564					
1	133.5	0.479449924	144.154516700	0.049035564	134.5	0.470437652
144.583841400	0.049131073					
1	134.5	0.470437652	144.583841400	0.049131073	135.5	0.461147305
145.019019200	0.049224189					

1	135.5	0.461147305	145.019019200	0.049224189	136.5	0.451858946	145.460735900	0.049314887
1	136.5	0.451858946	145.460735900	0.049314887	137.5	0.442886661	145.909678400	0.049403145
1	137.5	0.442886661	145.909678400	0.049403145	138.5	0.434576385	146.366527800	0.049488934
1	138.5	0.434576385	146.366527800	0.049488934	139.5	0.427302633	146.831951300	0.049572216
1	139.5	0.427302633	146.831951300	0.049572216	140.5	0.421464027	147.306592900	0.049652935
1	140.5	0.421464027	147.306592900	0.049652935	141.5	0.417477538	147.791063500	0.049731004
1	141.5	0.417477538	147.791063500	0.049731004	142.5	0.415771438	148.285929400	0.049806300
1	142.5	0.415771438	148.285929400	0.049806300	143.5	0.416777012	148.791700600	0.049878650
1	143.5	0.416777012	148.791700600	0.049878650	144.5	0.420919142	149.308817800	0.049947823
1	144.5	0.420919142	149.308817800	0.049947823	145.5	0.428606007	149.837639100	0.050013518
1	145.5	0.428606007	149.837639100	0.050013518	146.5	0.440218167	150.378426700	0.050075353
1	146.5	0.440218167	150.378426700	0.050075353	147.5	0.456097443	150.931333100	0.050132858
1	147.5	0.456097443	150.931333100	0.050132858	148.5	0.476536014	151.496388700	0.050185471
1	148.5	0.476536014	151.496388700	0.050185471	149.5	0.501766234	152.073489700	0.050232532
1	149.5	0.501766234	152.073489700	0.050232532	150.5	0.531951655	152.662387800	0.050273285
1	150.5	0.531951655	152.662387800	0.050273285	151.5	0.567179725	153.262681900	0.050306885
1	151.5	0.567179725	153.262681900	0.050306885	152.5	0.607456565	153.873812400	0.050332406
1	152.5	0.607456565	153.873812400	0.050332406	153.5	0.652704121	154.495058000	0.050348860
1	153.5	0.652704121	154.495058000	0.050348860	154.5	0.702759868	155.125536500	0.050355216
1	154.5	0.702759868	155.125536500	0.050355216	155.5	0.757379106	155.764208600	0.050350423
1	155.5	0.757379106	155.764208600	0.050350423	156.5	0.816239713	156.409885800	0.050333444
1	156.5	0.816239713	156.409885800	0.050333444	157.5	0.878947416	157.061241500	0.050303283
1	157.5	0.878947416	157.061241500	0.050303283	158.5	0.945053486	157.716828900	0.050259018
1	158.5	0.945053486	157.716828900	0.050259018	159.5	1.014046108	158.375092900	0.050199837
1	159.5	1.014046108	158.375092900	0.050199837	160.5	1.085383319	159.034399000	0.050125062
1	160.5	1.085383319	159.034399000	0.050125062	161.5	1.158487278	159.693050100	0.050034180
1	161.5	1.158487278	159.693050100	0.050034180	162.5	1.232768816	160.349316800	0.049926861
1	162.5	1.232768816	160.349316800	0.049926861	163.5	1.307628899	161.001458600	0.049802977
1	163.5	1.307628899	161.001458600	0.049802977	164.5	1.382473225	161.647751500	0.049662610
1	164.5	1.382473225	161.647751500	0.049662610	165.5	1.456720479	162.286511900	0.049506051
1	165.5	1.456720479	162.286511900	0.049506051	166.5	1.529810247	162.916120200	0.049333801
1	166.5	1.529810247	162.916120200	0.049333801	167.5	1.601219573	163.535045000	0.049146553
1	167.5	1.601219573	163.535045000	0.049146553	168.5	1.670433444	164.141848600	0.048945190
1	168.5	1.670433444	164.141848600	0.048945190	169.5	1.736995571	164.735219900	0.048730749
1	169.5	1.736995571	164.735219900	0.048730749	170.5	1.800483802	165.313975500	0.048504404
1	170.5	1.800483802	165.313975500	0.048504404	171.5	1.860518777	165.877071500	0.048267442
1	171.5	1.860518777	165.877071500	0.048267442	172.5	1.916765525	166.423608700	0.048021230

1	172.5	1.916765525	166.423608700	0.048021230	173.5	1.968934444	166.952835400	0.047767192
1	173.5	1.968934444	166.952835400	0.047767192	174.5	2.016781776	167.464146600	0.047506783
1	174.5	2.016781776	167.464146600	0.047506783	175.5	2.060109658	167.957081400	0.047241456
1	175.5	2.060109658	167.957081400	0.047241456	176.5	2.098765817	168.431317500	0.046972650
1	176.5	2.098765817	168.431317500	0.046972650	177.5	2.132642948	168.886664400	0.046701759
1	177.5	2.132642948	168.886664400	0.046701759	178.5	2.161677790	169.323054800	0.046430122
1	178.5	2.161677790	169.323054800	0.046430122	179.5	2.185849904	169.740535100	0.046159004
1	179.5	2.185849904	169.740535100	0.046159004	180.5	2.205180153	170.139255000	0.045889585
1	180.5	2.205180153	170.139255000	0.045889585	181.5	2.219728869	170.519456700	0.045622955
1	181.5	2.219728869	170.519456700	0.045622955	182.5	2.229593700	170.881464000	0.045360101
1	182.5	2.229593700	170.881464000	0.045360101	183.5	2.234907144	171.225671700	0.045101913
1	183.5	2.234907144	171.225671700	0.045101913	184.5	2.235833767	171.552534500	0.044849174
1	184.5	2.235833767	171.552534500	0.044849174	185.5	2.232567138	171.862557600	0.044602566
1	185.5	2.232567138	171.862557600	0.044602566	186.5	2.225326500	172.156286500	0.044362674
1	186.5	2.225326500	172.156286500	0.044362674	187.5	2.214353232	172.434298300	0.044129985
1	187.5	2.214353232	172.434298300	0.044129985	188.5	2.199905902	172.697193500	0.043904897
1	188.5	2.199905902	172.697193500	0.043904897	189.5	2.182262864	172.945589800	0.043687723
1	189.5	2.182262864	172.945589800	0.043687723	190.5	2.161704969	173.180112000	0.043478698
1	190.5	2.161704969	173.180112000	0.043478698	191.5	2.138524662	173.401389600	0.043277987
1	191.5	2.138524662	173.401389600	0.043277987	192.5	2.113023423	173.610051800	0.043085685
1	192.5	2.113023423	173.610051800	0.043085685	193.5	2.085490286	173.806717900	0.042901835
1	193.5	2.085490286	173.806717900	0.042901835	194.5	2.056219500	173.991999800	0.042726424
1	194.5	2.056219500	173.991999800	0.042726424	195.5	2.025496648	174.166495100	0.042559396
1	195.5	2.025496648	174.166495100	0.042559396	196.5	1.993598182	174.330785500	0.042400652
1	196.5	1.993598182	174.330785500	0.042400652	197.5	1.960789092	174.485434400	0.042250063
1	197.5	1.960789092	174.485434400	0.042250063	198.5	1.927320937	174.630985600	0.042107465
1	198.5	1.927320937	174.630985600	0.042107465	199.5	1.893430240	174.767961700	0.041972676
1	199.5	1.893430240	174.767961700	0.041972676	200.5	1.859337259	174.896863400	0.041845488
1	200.5	1.859337259	174.896863400	0.041845488	201.5	1.825245107	175.018169100	0.041725679
1	201.5	1.825245107	175.018169100	0.041725679	202.5	1.791339209	175.132334500	0.041613015
1	202.5	1.791339209	175.132334500	0.041613015	203.5	1.757787065	175.239792600	0.041507249
1	203.5	1.757787065	175.239792600	0.041507249	204.5	1.724738292	175.340954000	0.041408129
1	204.5	1.724738292	175.340954000	0.041408129	205.5	1.692324905	175.436207100	0.041315398
1	205.5	1.692324905	175.436207100	0.041315398	206.5	1.660661815	175.525919100	0.041228796
1	206.5	1.660661815	175.525919100	0.041228796	207.5	1.629847495	175.610435800	0.041148060
1	207.5	1.629847495	175.610435800	0.041148060	208.5	1.599964788	175.690083000	0.041072931
1	208.5	1.599964788	175.690083000	0.041072931	209.5	1.571081817	175.765167100	0.041003150

1	209.5	1.571081817	175.765167100	0.041003150	210.5	1.543252982
175.835975700	0.040938463					
1	210.5	1.543252982	175.835975700	0.040938463	211.5	1.516519998
175.902778800	0.040878617					
1	211.5	1.516519998	175.902778800	0.040878617	212.5	1.490912963
175.965829300	0.040823368					
1	212.5	1.490912963	175.965829300	0.040823368	213.5	1.466451429
176.025364100	0.040772475					
1	213.5	1.466451429	176.025364100	0.040772475	214.5	1.443145460
176.081605000	0.040725706					
1	214.5	1.443145460	176.081605000	0.040725706	215.5	1.420996665
176.134759300	0.040682834					
1	215.5	1.420996665	176.134759300	0.040682834	216.5	1.399999187
176.185020800	0.040643640					
1	216.5	1.399999187	176.185020800	0.040643640	217.5	1.380140651
176.232570700	0.040607913					
1	217.5	1.380140651	176.232570700	0.040607913	218.5	1.361403047
176.277578100	0.040575448					
1	218.5	1.361403047	176.277578100	0.040575448	219.5	1.343763564
176.320200800	0.040546051					
1	219.5	1.343763564	176.320200800	0.040546051	220.5	1.327195355
176.360586400	0.040519532					
1	220.5	1.327195355	176.360586400	0.040519532	221.5	1.311668242
176.398872500	0.040495713					
1	221.5	1.311668242	176.398872500	0.040495713	222.5	1.297149359
176.435187400	0.040474421					
1	222.5	1.297149359	176.435187400	0.040474421	223.5	1.283603728
176.469651000	0.040455493					
1	223.5	1.283603728	176.469651000	0.040455493	224.5	1.270994782
176.502375100	0.040438773					
1	224.5	1.270994782	176.502375100	0.040438773	225.5	1.259284830
176.533464000	0.040424111					
1	225.5	1.259284830	176.533464000	0.040424111	226.5	1.248435461
176.563015300	0.040411366					
1	226.5	1.248435461	176.563015300	0.040411366	227.5	1.238407910
176.591119700	0.040400405					
1	227.5	1.238407910	176.591119700	0.040400405	228.5	1.229163362
176.617862100	0.040391101					
1	228.5	1.229163362	176.617862100	0.040391101	229.5	1.220663228
176.643321900	0.040383334					
1	229.5	1.220663228	176.643321900	0.040383334	230.5	1.212869374
176.667572900	0.040376990					
1	230.5	1.212869374	176.667572900	0.040376990	231.5	1.205744310
176.690684400	0.040371962					
1	231.5	1.205744310	176.690684400	0.040371962	232.5	1.199251356
176.712721000	0.040368149					
1	232.5	1.199251356	176.712721000	0.040368149	233.5	1.193354770
176.733743000	0.040365456					
1	233.5	1.193354770	176.733743000	0.040365456	234.5	1.188019859
176.753807000	0.040363795					
1	234.5	1.188019859	176.753807000	0.040363795	235.5	1.183213059
176.772965700	0.040363080					
1	235.5	1.183213059	176.772965700	0.040363080	236.5	1.178901998
176.791268700	0.040363233					
1	236.5	1.178901998	176.791268700	0.040363233	237.5	1.175055543
176.808762200	0.040364179					
1	237.5	1.175055543	176.808762200	0.040364179	238.5	1.171643828
176.825489500	0.040365850					
1	238.5	1.171643828	176.825489500	0.040365850	239.5	1.168638270
176.841491400	0.040368180					
1	239.5	1.168638270	176.841491400	0.040368180	240.0	1.167279219
176.849232200	0.040369574					
2	23.5	1.093625008	84.553793340	0.040723061	24.5	1.051272912
85.397316900	0.040859727					
2	24.5	1.051272912	85.397316900	0.040859727	25.5	1.041951175
86.290263180	0.041142161					
2	25.5	1.041951175	86.290263180	0.041142161	26.5	1.012592236
87.157141820	0.041349399					
2	26.5	1.012592236	87.157141820	0.041349399	27.5	0.970541909
87.996018400	0.041500428					
2	27.5	0.970541909	87.996018400	0.041500428	28.5	0.921129988
88.805511500	0.041610508					
2	28.5	0.921129988	88.805511500	0.041610508	29.5	0.868221392
89.584766890	0.041691761					

2	29.5	0.868221392	89.584766890	0.041691761	30.5	0.814544130	90.333417220
0.041753680							
2	30.5	0.814544130	90.333417220	0.041753680	31.5	0.761957977	91.051543600
0.041803562							
2	31.5	0.761957977	91.051543600	0.041803562	32.5	0.711660228	91.739635200
0.041846882							
2	32.5	0.711660228	91.739635200	0.041846882	33.5	0.664323379	92.398544290
0.041887626							
2	33.5	0.664323379	92.398544290	0.041887626	34.5	0.620285102	93.029453920
0.041928568							
2	34.5	0.620285102	93.029453920	0.041928568	35.5	0.579556310	93.633822780
0.041971514							
2	35.5	0.579556310	93.633822780	0.041971514	36.5	0.541980940	94.213357090
0.042017509							
2	36.5	0.541980940	94.213357090	0.042017509	37.5	0.511429832	94.796432390
0.042104522							
2	37.5	0.511429832	94.796432390	0.042104522	38.5	0.482799937	95.373919180
0.042199507							
2	38.5	0.482799937	95.373919180	0.042199507	39.5	0.455521041	95.946926770
0.042300333							
2	39.5	0.455521041	95.946926770	0.042300333	40.5	0.429150288	96.516449120
0.042405225							
2	40.5	0.429150288	96.516449120	0.042405225	41.5	0.403351725	97.083372110
0.042512706							
2	41.5	0.403351725	97.083372110	0.042512706	42.5	0.377878239	97.648480700
0.042621565							
2	42.5	0.377878239	97.648480700	0.042621565	43.5	0.352555862	98.212465790
0.042730809							
2	43.5	0.352555862	98.212465790	0.042730809	44.5	0.327270297	98.775930690
0.042839638							
2	44.5	0.327270297	98.775930690	0.042839638	45.5	0.301955463	99.339397350
0.042947412							
2	45.5	0.301955463	99.339397350	0.042947412	46.5	0.276583851	99.903312200
0.043053626							
2	46.5	0.276583851	99.903312200	0.043053626	47.5	0.251158446	100.468051600
0.043157889							
2	47.5	0.251158446	100.468051600	0.043157889	48.5	0.225705996	101.033927000
0.043259907							
2	48.5	0.225705996	101.033927000	0.043259907	49.5	0.200271450	101.601189800
0.043359463							
2	49.5	0.200271450	101.601189800	0.043359463	50.5	0.174913356	102.170035800
0.043456406							
2	50.5	0.174913356	102.170035800	0.043456406	51.5	0.149700081	102.740609400
0.043550638							
2	51.5	0.149700081	102.740609400	0.043550638	52.5	0.124706710	103.313007700
0.043642107							
2	52.5	0.124706710	103.313007700	0.043642107	53.5	0.100012514	103.887283900
0.043730791							
2	53.5	0.100012514	103.887283900	0.043730791	54.5	0.075698881	104.463451100
0.043816701							
2	54.5	0.075698881	104.463451100	0.043816701	55.5	0.051847635	105.041485300
0.043899867							
2	55.5	0.051847635	105.041485300	0.043899867	56.5	0.028539670	105.621328700
0.043980337							
2	56.5	0.028539670	105.621328700	0.043980337	57.5	0.005853853	106.202892100
0.044058171							
2	57.5	0.005853853	106.202892100	0.044058171	58.5	-0.016133871	106.786058300
0.044133440							
2	58.5	-0.016133871	106.786058300	0.044133440	59.5	-0.037351181	107.370684100
0.044206218							
2	59.5	-0.037351181	107.370684100	0.044206218	60.5	-0.057729947	107.956603100
0.044276588							
2	60.5	-0.057729947	107.956603100	0.044276588	61.5	-0.077206672	108.543627800
0.044344632							
2	61.5	-0.077206672	108.543627800	0.044344632	62.5	-0.095722830	109.131552100
0.044410436							
2	62.5	-0.095722830	109.131552100	0.044410436	63.5	-0.113225128	109.720153100
0.044474084							
2	63.5	-0.113225128	109.720153100	0.044474084	64.5	-0.129665689	110.309193400
0.044535662							
2	64.5	-0.129665689	110.309193400	0.044535662	65.5	-0.145002179	110.898422800
0.044595254							
2	65.5	-0.145002179	110.898422800	0.044595254	66.5	-0.159197885	111.487580600
0.044652942							

2	66.5	-0.159197885	111.487580600	0.044652942	67.5	-0.172221748	112.076396700	0.044708809
2	67.5	-0.172221748	112.076396700	0.044708809	68.5	-0.184048358	112.664594300	0.044762936
2	68.5	-0.184048358	112.664594300	0.044762936	69.5	-0.194660215	113.251890200	0.044815402
2	69.5	-0.194660215	113.251890200	0.044815402	70.5	-0.204030559	113.838000600	0.044866288
2	70.5	-0.204030559	113.838000600	0.044866288	71.5	-0.212174408	114.422631700	0.044915672
2	71.5	-0.212174408	114.422631700	0.044915672	72.5	-0.219069129	115.005497800	0.044963636
2	72.5	-0.219069129	115.005497800	0.044963636	73.5	-0.224722166	115.586308900	0.045010259
2	73.5	-0.224722166	115.586308900	0.045010259	74.5	-0.229140412	116.164778200	0.045055624
2	74.5	-0.229140412	116.164778200	0.045055624	75.5	-0.232335686	116.740622100	0.045099817
2	75.5	-0.232335686	116.740622100	0.045099817	76.5	-0.234324563	117.313562200	0.045142924
2	76.5	-0.234324563	117.313562200	0.045142924	77.5	-0.235128195	117.883325900	0.045185036
2	77.5	-0.235128195	117.883325900	0.045185036	78.5	-0.234772114	118.449648100	0.045226249
2	78.5	-0.234772114	118.449648100	0.045226249	79.5	-0.233286033	119.012272200	0.045266662
2	79.5	-0.233286033	119.012272200	0.045266662	80.5	-0.230703633	119.570951300	0.045306383
2	80.5	-0.230703633	119.570951300	0.045306383	81.5	-0.227062344	120.125449500	0.045345524
2	81.5	-0.227062344	120.125449500	0.045345524	82.5	-0.222403111	120.675542700	0.045384203
2	82.5	-0.222403111	120.675542700	0.045384203	83.5	-0.216770161	121.221020000	0.045422551
2	83.5	-0.216770161	121.221020000	0.045422551	84.5	-0.210210748	121.761684400	0.045460702
2	84.5	-0.210210748	121.761684400	0.045460702	85.5	-0.202774891	122.297354200	0.045498803
2	85.5	-0.202774891	122.297354200	0.045498803	86.5	-0.194515104	122.827864000	0.045537012
2	86.5	-0.194515104	122.827864000	0.045537012	87.5	-0.185486099	123.353065200	0.045575495
2	87.5	-0.185486099	123.353065200	0.045575495	88.5	-0.175744476	123.872827600	0.045614432
2	88.5	-0.175744476	123.872827600	0.045614432	89.5	-0.165348396	124.387040000	0.045654016
2	89.5	-0.165348396	124.387040000	0.045654016	90.5	-0.154357220	124.895611400	0.045694450
2	90.5	-0.154357220	124.895611400	0.045694450	91.5	-0.142831123	125.398472000	0.045735953
2	91.5	-0.142831123	125.398472000	0.045735953	92.5	-0.130830669	125.895574000	0.045778759
2	92.5	-0.130830669	125.895574000	0.045778759	93.5	-0.118416354	126.386892900	0.045823114
2	93.5	-0.118416354	126.386892900	0.045823114	94.5	-0.105648092	126.872428400	0.045869280
2	94.5	-0.105648092	126.872428400	0.045869280	95.5	-0.092584657	127.352205600	0.045917535
2	95.5	-0.092584657	127.352205600	0.045917535	96.5	-0.079283065	127.826275900	0.045968169
2	96.5	-0.079283065	127.826275900	0.045968169	97.5	-0.065797888	128.294718700	0.046021490
2	97.5	-0.065797888	128.294718700	0.046021490	98.5	-0.052180500	128.757642000	0.046077818
2	98.5	-0.052180500	128.757642000	0.046077818	99.5	-0.038478250	129.215183900	0.046137487
2	99.5	-0.038478250	129.215183900	0.046137487	100.5	-0.024733545	129.667514300	0.046200842
2	100.5	-0.024733545	129.667514300	0.046200842	101.5	-0.010982868	130.114835400	0.046268240
2	101.5	-0.010982868	130.114835400	0.046268240	102.5	0.002744306	130.557383900	0.046340046
2	102.5	0.002744306	130.557383900	0.046340046	103.5	0.016426655	130.995432000	0.046416629

2	103.5	0.016426655	130.995432000	0.046416629	104.5	0.030052231	131.429288700	0.046498361
2	104.5	0.030052231	131.429288700	0.046498361	105.5	0.043619747	131.859301500	0.046585611
2	105.5	0.043619747	131.859301500	0.046585611	106.5	0.057139880	132.285857400	0.046678741
2	106.5	0.057139880	132.285857400	0.046678741	107.5	0.070636605	132.709384500	0.046778099
2	107.5	0.070636605	132.709384500	0.046778099	108.5	0.084148480	133.130352700	0.046884010
2	108.5	0.084148480	133.130352700	0.046884010	109.5	0.097729873	133.549274900	0.046996769
2	109.5	0.097729873	133.549274900	0.046996769	110.5	0.111452039	133.966707300	0.047116633
2	110.5	0.111452039	133.966707300	0.047116633	111.5	0.125404005	134.383249900	0.047243801
2	111.5	0.125404005	134.383249900	0.047243801	112.5	0.139693160	134.799546300	0.047378413
2	112.5	0.139693160	134.799546300	0.047378413	113.5	0.154445482	135.216282600	0.047520521
2	113.5	0.154445482	135.216282600	0.047520521	114.5	0.169805275	135.634186000	0.047670085
2	114.5	0.169805275	135.634186000	0.047670085	115.5	0.185934346	136.054022300	0.047826946
2	115.5	0.185934346	136.054022300	0.047826946	116.5	0.203010488	136.476592500	0.047990810
2	116.5	0.203010488	136.476592500	0.047990810	117.5	0.221225200	136.902728100	0.048161228
2	117.5	0.221225200	136.902728100	0.048161228	118.5	0.240780542	137.333284600	0.048337570
2	118.5	0.240780542	137.333284600	0.048337570	119.5	0.261885086	137.769133900	0.048519011
2	119.5	0.261885086	137.769133900	0.048519011	120.5	0.284748919	138.211155200	0.048704503
2	120.5	0.284748919	138.211155200	0.048704503	121.5	0.309577733	138.660222800	0.048892759
2	121.5	0.309577733	138.660222800	0.048892759	122.5	0.336566048	139.117193300	0.049082239
2	122.5	0.336566048	139.117193300	0.049082239	123.5	0.365889711	139.582889800	0.049271137
2	123.5	0.365889711	139.582889800	0.049271137	124.5	0.397699038	140.058084800	0.049457371
2	124.5	0.397699038	140.058084800	0.049457371	125.5	0.432104409	140.543478700	0.049638596
2	125.5	0.432104409	140.543478700	0.049638596	126.5	0.469179930	141.039683200	0.049812203
2	126.5	0.469179930	141.039683200	0.049812203	127.5	0.508943272	141.547194500	0.049975355
2	127.5	0.508943272	141.547194500	0.049975355	128.5	0.551354277	142.066373100	0.050125012
2	128.5	0.551354277	142.066373100	0.050125012	129.5	0.596307363	142.597420000	0.050257992
2	129.5	0.596307363	142.597420000	0.050257992	130.5	0.643626542	143.140355300	0.050371024
2	130.5	0.643626542	143.140355300	0.050371024	131.5	0.693062173	143.694998100	0.050460835
2	131.5	0.693062173	143.694998100	0.050460835	132.5	0.744289752	144.260949700	0.050524236
2	132.5	0.744289752	144.260949700	0.050524236	133.5	0.796910980	144.837580900	0.050558224
2	133.5	0.796910980	144.837580900	0.050558224	134.5	0.850457280	145.424024600	0.050560083
2	134.5	0.850457280	145.424024600	0.050560083	135.5	0.904395871	146.019174800	0.050527494
2	135.5	0.904395871	146.019174800	0.050527494	136.5	0.958138449	146.621692000	0.050458634
2	136.5	0.958138449	146.621692000	0.050458634	137.5	1.011054559	147.230017700	0.050352269
2	137.5	1.011054559	147.230017700	0.050352269	138.5	1.062474568	147.842391800	0.050207825
2	138.5	1.062474568	147.842391800	0.050207825	139.5	1.111727029	148.456887900	0.050025434
2	139.5	1.111727029	148.456887900	0.050025434	140.5	1.158135105	149.071441300	0.049805967

2	140.5	1.158135105	149.071441300	0.049805967	141.5	1.201050821	149.683894300	0.049551023
2	141.5	1.201050821	149.683894300	0.049551023	142.5	1.239852328	150.292032800	0.049262895
2	142.5	1.239852328	150.292032800	0.049262895	143.5	1.274006058	150.893646900	0.048944504
2	143.5	1.274006058	150.893646900	0.048944504	144.5	1.303044695	151.486563600	0.048599314
2	144.5	1.303044695	151.486563600	0.048599314	145.5	1.326605954	152.068698500	0.048231224
2	145.5	1.326605954	152.068698500	0.048231224	146.5	1.344443447	152.638095500	0.047844442
2	146.5	1.344443447	152.638095500	0.047844442	147.5	1.356437773	153.192963100	0.047443362
2	147.5	1.356437773	153.192963100	0.047443362	148.5	1.362602695	153.731703100	0.047032430
2	148.5	1.362602695	153.731703100	0.047032430	149.5	1.363085725	154.252933200	0.046616026
2	149.5	1.363085725	154.252933200	0.046616026	150.5	1.358162799	154.755501000	0.046198356
2	150.5	1.358162799	154.755501000	0.046198356	151.5	1.348227142	155.238490400	0.045783350
2	151.5	1.348227142	155.238490400	0.045783350	152.5	1.333772923	155.701221600	0.045374597
2	152.5	1.333772923	155.701221600	0.045374597	153.5	1.315374704	156.143243800	0.044975281
2	153.5	1.315374704	156.143243800	0.044975281	154.5	1.293664024	156.564323000	0.044588148
2	154.5	1.293664024	156.564323000	0.044588148	155.5	1.269304678	156.964425800	0.044215488
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2	157.5	1.215311270	157.702450700	0.043520480	158.5	1.186955477	158.041123300	0.043200497
2	158.5	1.186955477	158.041123300	0.043200497	159.5	1.158471522	158.360275600	0.042899776
2	159.5	1.158471522	158.360275600	0.042899776	160.5	1.130367088	158.660558800	0.042618565
2	160.5	1.130367088	158.660558800	0.042618565	161.5	1.103079209	158.942696400	0.042356812
2	161.5	1.103079209	158.942696400	0.042356812	162.5	1.076970655	159.207465400	0.042114211
2	162.5	1.076970655	159.207465400	0.042114211	163.5	1.052329922	159.455679000	0.041890247
2	163.5	1.052329922	159.455679000	0.041890247	164.5	1.029374161	159.688172000	0.041684240
2	164.5	1.029374161	159.688172000	0.041684240	165.5	1.008254396	159.905787100	0.041495379
2	165.5	1.008254396	159.905787100	0.041495379	166.5	0.989062282	160.109364700	0.041322765
2	166.5	0.989062282	160.109364700	0.041322765	167.5	0.971837799	160.299733000	0.041165437
2	167.5	0.971837799	160.299733000	0.041165437	168.5	0.956572150	160.477699600	0.041022401
2	168.5	0.956572150	160.477699600	0.041022401	169.5	0.943242280	160.644052600	0.040892651
2	169.5	0.943242280	160.644052600	0.040892651	170.5	0.931767062	160.799542800	0.040775193
2	170.5	0.931767062	160.799542800	0.040775193	171.5	0.922058291	160.944891600	0.040669052
2	171.5	0.922058291	160.944891600	0.040669052	172.5	0.914012643	161.080785700	0.040573288
2	172.5	0.914012643	161.080785700	0.040573288	173.5	0.907516917	161.207875500	0.040487005
2	173.5	0.907516917	161.207875500	0.040487005	174.5	0.902452436	161.326774400	0.040409354
2	174.5	0.902452436	161.326774400	0.040409354	175.5	0.898698641	161.438059300	0.040339537
2	175.5	0.898698641	161.438059300	0.040339537	176.5	0.896143482	161.542272600	0.040276811
2	176.5	0.896143482	161.542272600	0.040276811	177.5	0.894659668	161.639917000	0.040220488

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2	181.5	0.897330209	161.973755800	0.040047295	182.5	0.899671635	162.044996900	0.040014473
2	182.5	0.899671635	162.044996900	0.040014473	183.5	0.902516442	162.112038600	0.039984980
2	183.5	0.902516442	162.112038600	0.039984980	184.5	0.905793969	162.175180000	0.039958458
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2	185.5	0.909440266	162.234697900	0.039934584	186.5	0.913397733	162.290847400	0.039913066
2	186.5	0.913397733	162.290847400	0.039913066	187.5	0.917614710	162.343864000	0.039893644
2	187.5	0.917614710	162.343864000	0.039893644	188.5	0.922045055	162.393965200	0.039876087
2	188.5	0.922045055	162.393965200	0.039876087	189.5	0.926647697	162.441351300	0.039860185
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2	190.5	0.931386217	162.486207100	0.039845754	191.5	0.936228420	162.528702900	0.039832629
2	191.5	0.936228420	162.528702900	0.039832629	192.5	0.941145943	162.568995800	0.039820663
2	192.5	0.941145943	162.568995800	0.039820663	193.5	0.946113880	162.607230900	0.039809725
2	193.5	0.946113880	162.607230900	0.039809725	194.5	0.951110430	162.643541800	0.039799700
2	194.5	0.951110430	162.643541800	0.039799700	195.5	0.956116576	162.678051900	0.039790485
2	195.5	0.956116576	162.678051900	0.039790485	196.5	0.961115792	162.710875100	0.039781991
2	196.5	0.961115792	162.710875100	0.039781991	197.5	0.966093766	162.742116800	0.039774136
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2	200.5	0.980785418	162.827288900	0.039753741	201.5	0.985571579	162.853106700	0.039747815
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2	206.5	1.008398300	162.966013100	0.039722890	207.5	1.012716921	162.985759900	0.039718640
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    DATA WTFAGE;  **DATA FILE FOR WEIGHT-FOR-AGE;
    INFILE CARDS PAD;
    INPUT SEX _AGEMOS1 _LWT1 _MWT1 _SWT1 _AGEMOS2 _LWT2 _MWT2 _SWT2;
    CARDS;
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6.391391982       0.124717085
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1	16.5	-0.157709990	11.422067700	0.108694678	17.5	-0.154022790	11.619776980
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1	21.5	-0.168179260	12.301541030	0.108067236	22.5	-0.180566800	12.452830280
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1	23.5	-0.196701960	12.599134940	0.108095077	24.5	-0.216501213	12.741543960
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1	24.5	-0.216501213	12.741543960	0.108166006	25.5	-0.239790488	12.881022760
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1	25.5	-0.239790488	12.881022760	0.108274706	26.5	-0.266315853	13.018423820
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1	26.5	-0.266315853	13.018423820	0.108421025	27.5	-0.295754969	13.154496600
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1	27.5	-0.295754969	13.154496600	0.108604770	28.5	-0.327729368	13.289896670
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1	28.5	-0.327729368	13.289896670	0.108825681	29.5	-0.361817468	13.425194080
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1	29.5	-0.361817468	13.425194080	0.109083424	30.5	-0.397568087	13.560881130
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1	30.5	-0.397568087	13.560881130	0.109377581	31.5	-0.434520252	13.697378580
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1	31.5	-0.434520252	13.697378580	0.109707646	32.5	-0.472188756	13.835046220
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1	32.5	-0.472188756	13.835046220	0.110073084	33.5	-0.510116627	13.974182990
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1	33.5	-0.510116627	13.974182990	0.110473254	34.5	-0.547885579	14.115032400
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1	34.5	-0.547885579	14.115032400	0.110907400	35.5	-0.585070110	14.257796180
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1	35.5	-0.585070110	14.257796180	0.111374787	36.5	-0.621319726	14.402627490
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1	36.5	-0.621319726	14.402627490	0.111874514	37.5	-0.656295986	14.549646140
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1	37.5	-0.656295986	14.549646140	0.112405687	38.5	-0.689735029	14.698933260
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1	38.5	-0.689735029	14.698933260	0.112967254	39.5	-0.721410388	14.850541510
0.113558110							
1	39.5	-0.721410388	14.850541510	0.113558110	40.5	-0.751175223	15.004491430
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1	40.5	-0.751175223	15.004491430	0.114176956	41.5	-0.778904279	15.160784540
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1	41.5	-0.778904279	15.160784540	0.114822482	42.5	-0.804515498	15.319402460
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1	42.5	-0.804515498	15.319402460	0.115493292	43.5	-0.828003255	15.480303130
0.116187777							
1	43.5	-0.828003255	15.480303130	0.116187777	44.5	-0.849380372	15.643433090
0.116904306							

1	44.5	-0.849380372	15.643433090	0.116904306	45.5	-0.868699650	15.808725350	0.117641148
1	45.5	-0.868699650	15.808725350	0.117641148	46.5	-0.886033992	15.976104560	0.118396541
1	46.5	-0.886033992	15.976104560	0.118396541	47.5	-0.901507878	16.145481940	0.119168555
1	47.5	-0.901507878	16.145481940	0.119168555	48.5	-0.915241589	16.316767270	0.119955320
1	48.5	-0.915241589	16.316767270	0.119955320	49.5	-0.927377772	16.489864600	0.120754916
1	49.5	-0.927377772	16.489864600	0.120754916	50.5	-0.938069819	16.664675290	0.121565421
1	50.5	-0.938069819	16.664675290	0.121565421	51.5	-0.947477940	16.841099480	0.122384927
1	51.5	-0.947477940	16.841099480	0.122384927	52.5	-0.955765694	17.019037460	0.123211562
1	52.5	-0.955765694	17.019037460	0.123211562	53.5	-0.963096972	17.198390800	0.124043503
1	53.5	-0.963096972	17.198390800	0.124043503	54.5	-0.969633434	17.379063410	0.124878992
1	54.5	-0.969633434	17.379063410	0.124878992	55.5	-0.975532355	17.560962450	0.125716348
1	55.5	-0.975532355	17.560962450	0.125716348	56.5	-0.980937915	17.744000820	0.126554022
1	56.5	-0.980937915	17.744000820	0.126554022	57.5	-0.986006518	17.928091210	0.127390453
1	57.5	-0.986006518	17.928091210	0.127390453	58.5	-0.990866940	18.113156250	0.128224294
1	58.5	-0.990866940	18.113156250	0.128224294	59.5	-0.995644402	18.299122860	0.129054277
1	59.5	-0.995644402	18.299122860	0.129054277	60.5	-1.000453886	18.485924130	0.129879257
1	60.5	-1.000453886	18.485924130	0.129879257	61.5	-1.005399668	18.673499650	0.130698212
1	61.5	-1.005399668	18.673499650	0.130698212	62.5	-1.010575003	18.861795760	0.131510245
1	62.5	-1.010575003	18.861795760	0.131510245	63.5	-1.016061941	19.050765790	0.132314586
1	63.5	-1.016061941	19.050765790	0.132314586	64.5	-1.021931241	19.240370190	0.133110593
1	64.5	-1.021931241	19.240370190	0.133110593	65.5	-1.028242376	19.430576620	0.133897752
1	65.5	-1.028242376	19.430576620	0.133897752	66.5	-1.035043608	19.621360070	0.134675673
1	66.5	-1.035043608	19.621360070	0.134675673	67.5	-1.042372125	19.812702800	0.135444090
1	67.5	-1.042372125	19.812702800	0.135444090	68.5	-1.050254232	20.004594400	0.136202860
1	68.5	-1.050254232	20.004594400	0.136202860	69.5	-1.058705595	20.197031710	0.136951959
1	69.5	-1.058705595	20.197031710	0.136951959	70.5	-1.067731529	20.390018720	0.137691478
1	70.5	-1.067731529	20.390018720	0.137691478	71.5	-1.077321193	20.583568620	0.138421673
1	71.5	-1.077321193	20.583568620	0.138421673	72.5	-1.087471249	20.777695650	0.139142773
1	72.5	-1.087471249	20.777695650	0.139142773	73.5	-1.098152984	20.972426310	0.139855242
1	73.5	-1.098152984	20.972426310	0.139855242	74.5	-1.109334080	21.167791920	0.140559605
1	74.5	-1.109334080	21.167791920	0.140559605	75.5	-1.120974043	21.363830130	0.141256489
1	75.5	-1.120974043	21.363830130	0.141256489	76.5	-1.133024799	21.560584670	0.141946613
1	76.5	-1.133024799	21.560584670	0.141946613	77.5	-1.145431351	21.758105060	0.142630785
1	77.5	-1.145431351	21.758105060	0.142630785	78.5	-1.158132499	21.956446270	0.143309898
1	78.5	-1.158132499	21.956446270	0.143309898	79.5	-1.171061612	22.155668420	0.143984924
1	79.5	-1.171061612	22.155668420	0.143984924	80.5	-1.184141975	22.355838620	0.144656953
1	80.5	-1.184141975	22.355838620	0.144656953	81.5	-1.197307185	22.557022680	0.145327009

1	81.5	-1.197307185	22.557022680	0.145327009	82.5	-1.210475099	22.759295580	0.145996289
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1	83.5	-1.223565263	22.962734400	0.146666000	84.5	-1.236497304	23.167418880	0.147337375
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1	85.5	-1.249186293	23.373433410	0.148011715	86.5	-1.261555446	23.580861450	0.148690256
1	86.5	-1.261555446	23.580861450	0.148690256	87.5	-1.273523619	23.789790960	0.149374297
1	87.5	-1.273523619	23.789790960	0.149374297	88.5	-1.285013783	24.000310640	0.150065107
1	88.5	-1.285013783	24.000310640	0.150065107	89.5	-1.295952066	24.212510280	0.150763933
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1	92.5	-1.324778843	24.860095960	0.152920322	93.5	-1.332857581	25.079923030	0.153662731
1	93.5	-1.332857581	25.079923030	0.153662731	94.5	-1.340080195	25.301885840	0.154418635
1	94.5	-1.340080195	25.301885840	0.154418635	95.5	-1.346412105	25.526069770	0.155188768
1	95.5	-1.346412105	25.526069770	0.155188768	96.5	-1.351813296	25.752565280	0.155973912
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1	102.5	-1.363457829	27.164891990	0.161025689	103.5	-1.361865669	27.409945390	0.161925976
1	103.5	-1.361865669	27.409945390	0.161925976	104.5	-1.359282610	27.657969780	0.162842452
1	104.5	-1.359282610	27.657969780	0.162842452	105.5	-1.355720571	27.909044330	0.163774719
1	105.5	-1.355720571	27.909044330	0.163774719	106.5	-1.351202536	28.163242640	0.164722138
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1	108.5	-1.339405453	28.681300050	0.166659247	109.5	-1.332188093	28.945300290	0.167647017
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1	111.5	-1.315291073	29.483585270	0.169655235	112.5	-1.305688240	29.758001980	0.170673022
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1	113.5	-1.295369867	30.036020210	0.171697970	114.5	-1.284374967	30.317704170	0.172728540
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1	131.5	-1.035367321	35.716947230	0.189235738	132.5	-1.019277299	36.072625690	0.190029545
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1	137.5	-0.940083834	37.916157210	0.193478582	138.5	-0.924670244	38.297770300	0.194053274
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1	140.5	-0.894446258	39.073644010	0.195076705	141.5	-0.879676305	39.467806430	0.195523246
1	141.5	-0.879676305	39.467806430	0.195523246	142.5	-0.865160071	39.866040440	0.195925079
1	142.5	-0.865160071	39.866040440	0.195925079	143.5	-0.850915987	40.268276520	0.196281418
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1	150.5	-0.760273528	43.188284190	0.197464210	151.5	-0.748815968	43.618957030	0.197444522
1	151.5	-0.748815968	43.618957030	0.197444522	152.5	-0.737780398	44.052593100	0.197378345
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1	168.5	-0.631876912	51.230963320	0.190808471	169.5	-0.630539940	51.682286250	0.190127105
1	169.5	-0.630539940	51.682286250	0.190127105	170.5	-0.629923353	52.132261130	0.189424530
1	170.5	-0.629923353	52.132261130	0.189424530	171.5	-0.630041066	52.580585830	0.188702714
1	171.5	-0.630041066	52.580585830	0.188702714	172.5	-0.630905733	53.026955880	0.187963636
1	172.5	-0.630905733	53.026955880	0.187963636	173.5	-0.632528509	53.471065250	0.187209281
1	173.5	-0.632528509	53.471065250	0.187209281	174.5	-0.634918779	53.912607370	0.186441630
1	174.5	-0.634918779	53.912607370	0.186441630	175.5	-0.638083884	54.351276080	0.185662657
1	175.5	-0.638083884	54.351276080	0.185662657	176.5	-0.642028835	54.786766590	0.184874323
1	176.5	-0.642028835	54.786766590	0.184874323	177.5	-0.646756013	55.218776570	0.184078567
1	177.5	-0.646756013	55.218776570	0.184078567	178.5	-0.652262297	55.647011310	0.183277339
1	178.5	-0.652262297	55.647011310	0.183277339	179.5	-0.658551638	56.071164070	0.182472427
1	179.5	-0.658551638	56.071164070	0.182472427	180.5	-0.665609025	56.490958620	0.181665781
1	180.5	-0.665609025	56.490958620	0.181665781	181.5	-0.673425951	56.906108860	0.180859180
1	181.5	-0.673425951	56.906108860	0.180859180	182.5	-0.681987284	57.316340590	0.180054395
1	182.5	-0.681987284	57.316340590	0.180054395	183.5	-0.691273614	57.721388460	0.179253153
1	183.5	-0.691273614	57.721388460	0.179253153	184.5	-0.701261055	58.120996960	0.178457127
1	184.5	-0.701261055	58.120996960	0.178457127	185.5	-0.711921092	58.514921430	0.177667942
1	185.5	-0.711921092	58.514921430	0.177667942	186.5	-0.723218488	58.902932080	0.176887192
1	186.5	-0.723218488	58.902932080	0.176887192	187.5	-0.735121189	59.284799480	0.176116307
1	187.5	-0.735121189	59.284799480	0.176116307	188.5	-0.747580416	59.660326260	0.175356814
1	188.5	-0.747580416	59.660326260	0.175356814	189.5	-0.760550666	60.029317040	0.174610071
1	189.5	-0.760550666	60.029317040	0.174610071	190.5	-0.773984558	60.391587210	0.173877336
1	190.5	-0.773984558	60.391587210	0.173877336	191.5	-0.787817728	60.746987850	0.173159953
1	191.5	-0.787817728	60.746987850	0.173159953	192.5	-0.801993069	61.095368470	0.172459052

1	192.5	-0.801993069	61.095368470	0.172459052	193.5	-0.816446409	61.436600770
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1	193.5	-0.816446409	61.436600770	0.171775726	194.5	-0.831110299	61.770573720
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1	194.5	-0.831110299	61.770573720	0.171110986	195.5	-0.845914498	62.097193990
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1	195.5	-0.845914498	62.097193990	0.170465756	196.5	-0.860786514	62.416386280
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1	196.5	-0.860786514	62.416386280	0.169840869	197.5	-0.875652181	62.728093620
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1	197.5	-0.875652181	62.728093620	0.169237063	198.5	-0.890436283	63.032277560
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1	198.5	-0.890436283	63.032277560	0.168654971	199.5	-0.905063185	63.328918410
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1	199.5	-0.905063185	63.328918410	0.168095124	200.5	-0.919457490	63.618015370
0.167557940							
1	200.5	-0.919457490	63.618015370	0.167557940	201.5	-0.933544683	63.899586620
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1	201.5	-0.933544683	63.899586620	0.167043722	202.5	-0.947251765	64.173669430
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1	202.5	-0.947251765	64.173669430	0.166552654	203.5	-0.960507855	64.440320160
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1	203.5	-0.960507855	64.440320160	0.166084798	204.5	-0.973244762	64.699614270
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1	204.5	-0.973244762	64.699614270	0.165640090	205.5	-0.985397502	64.951646250
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1	205.5	-0.985397502	64.951646250	0.165218341	206.5	-0.996904762	65.196529500
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1	207.5	-1.007705555	65.434401860	0.164442380	208.5	-1.017756047	65.665400150
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1	208.5	-1.017756047	65.665400150	0.164087103	209.5	-1.027002713	65.889701170
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1	209.5	-1.027002713	65.889701170	0.163752791	210.5	-1.035402243	66.107491140
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1	210.5	-1.035402243	66.107491140	0.163438661	211.5	-1.042916356	66.318973110
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1	211.5	-1.042916356	66.318973110	0.163143825	212.5	-1.049511871	66.524366180
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1	212.5	-1.049511871	66.524366180	0.162867311	213.5	-1.055160732	66.723904430
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1	213.5	-1.055160732	66.723904430	0.162608072	214.5	-1.059840019	66.917835630
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1	215.5	-1.063531973	67.106419560	0.162136973	216.5	-1.066224038	67.289926030
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1	218.5	-1.068589885	67.642813780	0.161531530	219.5	-1.068261146	67.812767500
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1	219.5	-1.068261146	67.812767500	0.161352313	220.5	-1.066933756	67.978773310
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1	220.5	-1.066933756	67.978773310	0.161182785	221.5	-1.064620976	68.141110220
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1	221.5	-1.064620976	68.141110220	0.161022184	222.5	-1.061341755	68.300047410
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1	222.5	-1.061341755	68.300047410	0.160869943	223.5	-1.057116957	68.455845400
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1	223.5	-1.057116957	68.455845400	0.160725793	224.5	-1.051988979	68.608721740
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1	224.5	-1.051988979	68.608721740	0.160589574	225.5	-1.045990330	68.758892630
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1	225.5	-1.045990330	68.758892630	0.160461700	226.5	-1.039168248	68.906530280
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1	226.5	-1.039168248	68.906530280	0.160342924	227.5	-1.031579574	69.051764270
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1	227.5	-1.031579574	69.051764270	0.160234478	228.5	-1.023291946	69.194672880
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1	228.5	-1.023291946	69.194672880	0.160138158	229.5	-1.014385118	69.335273760
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1	229.5	-1.014385118	69.335273760	0.160056393	230.5	-1.004952366	69.473513730	0.159992344
1	230.5	-1.004952366	69.473513730	0.159992344	231.5	-0.995101924	69.609257820	0.159949989
1	231.5	-0.995101924	69.609257820	0.159949989	232.5	-0.984958307	69.742277580	0.159934231
1	232.5	-0.984958307	69.742277580	0.159934231	233.5	-0.974663325	69.872238850	0.159951004
1	233.5	-0.974663325	69.872238850	0.159951004	234.5	-0.964376555	69.998688960	0.160007394
1	234.5	-0.964376555	69.998688960	0.160007394	235.5	-0.954274945	70.121043810	0.160111769
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1	236.5	-0.944551187	70.238574820	0.160273918	237.5	-0.935410427	70.350396260	0.160505203
1	237.5	-0.935410427	70.350396260	0.160505203	238.5	-0.927059784	70.455461050	0.160818788
1	238.5	-0.927059784	70.455461050	0.160818788	239.5	-0.919718461	70.552521270	0.161229617
1	239.5	-0.919718461	70.552521270	0.161229617	240	-0.916047800	70.601051380	0.161435032
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2	2.5	0.902596648	5.230584214	0.126892697	3.5	0.734121414	5.859960798	0.123025182
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2	5.5	0.464391566	6.967850457	0.117166868	6.5	0.352164071	7.454854109	0.114893840
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2	48.5	-1.177029925	15.878236680	0.131802186	49.5	-1.187871001	16.049784520
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2	49.5	-1.187871001	16.049784520	0.132692269	50.5	-1.198484073	16.222770600
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2	71.5	-1.327256387	20.136696230	0.148852482	72.5	-1.326763834	20.336359610	0.149589838
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1	170.5	-2.211240187	19.273658390	0.135302371	171.5	-2.203239029	19.331822470
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1	171.5	-2.203239029	19.331822470	0.135315568	172.5	-2.195272161	19.390061060
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1	172.5	-2.195272161	19.390061060	0.135320824	173.5	-2.187335625	19.448365940
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1	178.5	-2.147985046	19.740595380	0.135200976	179.5	-2.140160305	19.799124200	0.135158409
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1	181.5	-2.124537282	19.916198000	0.135056522	182.5	-2.116735712	19.974726150	0.134997797
1	182.5	-2.116735712	19.974726150	0.134997797	183.5	-2.108939167	20.033237190	0.134934285
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1	197.5	-2.000706389	20.845740030	0.133717552	198.5	-1.993150137	20.902944490	0.133620200
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    2      233.5      -2.359710258      21.635387000      0.150161492      234.5      -2.358980464
21.650061260      0.150520734
    2      234.5      -2.358980464      21.650061260      0.150520734      235.5      -2.357714508
21.663972700      0.150905439
    2      235.5      -2.357714508      21.663972700      0.150905439      236.5      -2.355892424
21.677117360      0.151316531
    2      236.5      -2.355892424      21.677117360      0.151316531      237.5      -2.353501353
21.689489350      0.151754808
    2      237.5      -2.353501353      21.689489350      0.151754808      238.5      -2.350528726
21.701082880      0.152221086
    2      238.5      -2.350528726      21.701082880      0.152221086      239.5      -2.346962247
21.711892250      0.152716206
    2      239.5      -2.346962247      21.711892250      0.152716206      240      -2.344958430
21.716999340      0.152974718
    ;

    DATA HCFAGE;  **DATA FILE FOR HEAD CIRCUMFERENCE-FOR-AGE;
    INFILE CARDS PAD;
    INPUT SEX _AGEMOS1 _LHC1 _MHC1 _SHC1 _AGEMOS2 _LHC2 _MHC2 _SHC2;
    CARDS;
    1       0.0       4.427825037       35.813668350       0.052172542       0.5       4.310927464
37.193610540      0.047259148
    1       0.5       4.310927464       37.193610540       0.047259148       1.5       3.869576802
39.207429290      0.040947903
    1       1.5       3.869576802       39.207429290       0.040947903       2.5       3.305593039
40.652331950      0.037027722
    1       2.5       3.305593039       40.652331950       0.037027722       3.5       2.720590297
41.765169590      0.034364245
    1       3.5       2.720590297       41.765169590       0.034364245       4.5       2.168048240
42.661161480      0.032462175
    1       4.5       2.168048240       42.661161480       0.032462175       5.5       1.675465689
43.404887310      0.031064702
    1       5.5       1.675465689       43.404887310       0.031064702       6.5       1.255160322
44.036099230      0.030022670
    1       6.5       1.255160322       44.036099230       0.030022670       7.5       0.910541140
44.580969120      0.029242173
    1       7.5       0.910541140       44.580969120       0.029242173       8.5       0.639510474
45.057612150      0.028660454
    1       8.5       0.639510474       45.057612150       0.028660454       9.5       0.436978864
45.479075600      0.028233600
    1       9.5       0.436978864       45.479075600       0.028233600       10.5       0.296275856
45.855057060      0.027929764
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1	10.5	0.296275856	45.855057060	0.027929764	11.5	0.210107251	46.192954270	0.027725179
1	11.5	0.210107251	46.192954270	0.027725179	12.5	0.171147024	46.498534380	0.027601686
1	12.5	0.171147024	46.498534380	0.027601686	13.5	0.172393886	46.776376840	0.027545148
1	13.5	0.172393886	46.776376840	0.027545148	14.5	0.207371541	47.030175990	0.027544382
1	14.5	0.207371541	47.030175990	0.027544382	15.5	0.270226126	47.262953300	0.027590417
1	15.5	0.270226126	47.262953300	0.027590417	16.5	0.355757274	47.477209890	0.027675980
1	16.5	0.355757274	47.477209890	0.027675980	17.5	0.459407627	47.675038330	0.027795115
1	17.5	0.459407627	47.675038330	0.027795115	18.5	0.577227615	47.858206060	0.027942900
1	18.5	0.577227615	47.858206060	0.027942900	19.5	0.705826778	48.028218670	0.028115241
1	19.5	0.705826778	48.028218670	0.028115241	20.5	0.842319055	48.186368640	0.028308707
1	20.5	0.842319055	48.186368640	0.028308707	21.5	0.984266833	48.333773200	0.028520407
1	21.5	0.984266833	48.333773200	0.028520407	22.5	1.129626698	48.471404320	0.028747896
1	22.5	1.129626698	48.471404320	0.028747896	23.5	1.276691223	48.600112230	0.028989089
1	23.5	1.276691223	48.600112230	0.028989089	24.5	1.424084853	48.720646210	0.029242207
1	24.5	1.424084853	48.720646210	0.029242207	25.5	1.570621291	48.833666290	0.029505723
1	25.5	1.570621291	48.833666290	0.029505723	26.5	1.715393998	48.939760890	0.029778323
1	26.5	1.715393998	48.939760890	0.029778323	27.5	1.857652984	49.039453830	0.030058871
1	27.5	1.857652984	49.039453830	0.030058871	28.5	1.996810563	49.133214320	0.030346384
1	28.5	1.996810563	49.133214320	0.030346384	29.5	2.132411346	49.221464090	0.030640006
1	29.5	2.132411346	49.221464090	0.030640006	30.5	2.264111009	49.304583480	0.030938992
1	30.5	2.264111009	49.304583480	0.030938992	31.5	2.391658052	49.382916580	0.031242693
1	31.5	2.391658052	49.382916580	0.031242693	32.5	2.514878222	49.456775690	0.031550537
1	32.5	2.514878222	49.456775690	0.031550537	33.5	2.633661226	49.526445000	0.031862026
1	33.5	2.633661226	49.526445000	0.031862026	34.5	2.747949445	49.592183850	0.032176720
1	34.5	2.747949445	49.592183850	0.032176720	35.5	2.857728375	49.654229520	0.032494231
1	35.5	2.857728375	49.654229520	0.032494231	36.5	2.967507305	49.716275190	0.032811742
2	0.0	-1.298749689	34.711561700	0.046905108	0.5	-1.440271514	36.034538760	0.042999604
2	0.5	-1.440271514	36.034538760	0.042999604	1.5	-1.581016348	37.976719870	0.038067862
2	1.5	-1.581016348	37.976719870	0.038067862	2.5	-1.593136386	39.380126300	0.035079612
2	2.5	-1.593136386	39.380126300	0.035079612	3.5	-1.521492427	40.467737330	0.033096443
2	3.5	-1.521492427	40.467737330	0.033096443	4.5	-1.394565915	41.348410080	0.031709630
2	4.5	-1.394565915	41.348410080	0.031709630	5.5	-1.231713389	42.083350700	0.030709039
2	5.5	-1.231713389	42.083350700	0.030709039	6.5	-1.046582628	42.710336030	0.029974303
2	6.5	-1.046582628	42.710336030	0.029974303	7.5	-0.848932692	43.254288820	0.029430992
2	7.5	-0.848932692	43.254288820	0.029430992	8.5	-0.645779124	43.732496460	0.029030379
2	8.5	-0.645779124	43.732496460	0.029030379	9.5	-0.442165412	44.157428370	0.028739112
2	9.5	-0.442165412	44.157428370	0.028739112	10.5	-0.241632060	44.538367940	0.028533537

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    2       10.5       -0.241632060       44.538367940       0.028533537       11.5       -0.046673786
44.882405620      0.028396382
    2       11.5       -0.046673786       44.882405620       0.028396382       12.5       0.141031094
45.195076510      0.028314722
    2       12.5       0.141031094       45.195076510       0.028314722       13.5       0.320403169
45.480781470      0.028278682
    2       13.5       0.320403169       45.480781470       0.028278682       14.5       0.490807133
45.743075270      0.028280585
    2       14.5       0.490807133       45.743075270       0.028280585       15.5       0.651935050
45.984869010      0.028314363
    2       15.5       0.651935050       45.984869010       0.028314363       16.5       0.803718086
46.208575580      0.028375159
    2       16.5       0.803718086       46.208575580       0.028375159       17.5       0.946259679
46.416216350      0.028459033
    2       17.5       0.946259679       46.416216350       0.028459033       18.5       1.079784984
46.609500840      0.028562759
    2       18.5       1.079784984       46.609500840       0.028562759       19.5       1.204602687
46.789887220      0.028683666
    2       19.5       1.204602687       46.789887220       0.028683666       20.5       1.321076285
46.958628810      0.028819525
    2       20.5       1.321076285       46.958628810       0.028819525       21.5       1.429602576
47.116810390      0.028968459
    2       21.5       1.429602576       47.116810390       0.028968459       22.5       1.530595677
47.265376820      0.029128879
    2       22.5       1.530595677       47.265376820       0.029128879       23.5       1.624475262
47.405155850      0.029299426
    2       23.5       1.624475262       47.405155850       0.029299426       24.5       1.711658030
47.536876490      0.029478937
    2       24.5       1.711658030       47.536876490       0.029478937       25.5       1.792551616
47.661183960      0.029666406
    2       25.5       1.792551616       47.661183960       0.029666406       26.5       1.867550375
47.778651860      0.029860960
    2       26.5       1.867550375       47.778651860       0.029860960       27.5       1.937032580
47.889792300      0.030061839
    2       27.5       1.937032580       47.889792300       0.030061839       28.5       2.001358669
47.995064220      0.030268375
    2       28.5       2.001358669       47.995064220       0.030268375       29.5       2.060870301
48.094880480      0.030479985
    2       29.5       2.060870301       48.094880480       0.030479985       30.5       2.115889982
48.189613650      0.030696150
    2       30.5       2.115889982       48.189613650       0.030696150       31.5       2.166721130
48.279601100      0.030916413
    2       31.5       2.166721130       48.279601100       0.030916413       32.5       2.213648440
48.365149170      0.031140368
    2       32.5       2.213648440       48.365149170       0.031140368       33.5       2.256943216
48.446537030      0.031367651
    2       33.5       2.256943216       48.446537030       0.031367651       34.5       2.296844024
48.524018940      0.031597939
    2       34.5       2.296844024       48.524018940       0.031597939       35.5       2.333589434
48.597828280      0.031830942
    2       35.5       2.333589434       48.597828280       0.031830942       36.5       2.370334844
48.671637620      0.032063945
    ;

    DATA WTFLG;  **DATA FILE FOR WEIGHT-FOR-LENGTH;
    INFILE CARDS PAD;
    INPUT SEX _LG1 _LWLG1 _MWLG1 _SWLG1 _LG2 _LWLG2 _MWLG2 _SWLG2;
    CARDS;
    1       45.0       1.449036890       2.289757735       0.149236691       45.5       1.317941650
2.386172190      0.144790131
    1       45.5       1.317941650       2.386172190       0.144790131       46.5       1.041730589
2.587097922      0.136547200
    1       46.5       1.041730589       2.587097922       0.136547200       47.5       0.756615683
2.797952593      0.129156077
    1       47.5       0.756615683       2.797952593       0.129156077       48.5       0.472617587
3.017679791      0.122589498
    1       48.5       0.472617587       3.017679791       0.122589498       49.5       0.197455933
3.245225583      0.116802688
    1       49.5       0.197455933       3.245225583       0.116802688       50.5       -0.063272822
3.479567767      0.111734963
    1       50.5       -0.063272822       3.479567767       0.111734963       51.5       -0.305663778
3.719739648      0.107316407
    1       51.5       -0.305663778       3.719739648       0.107316407       52.5       -0.527210764
3.964838222      0.103474530
```

1	52.5	-0.527210764	3.964838222	0.103474530	53.5	-0.726356263	4.214033476	0.100139369
1	53.5	-0.726356263	4.214033476	0.100139369	54.5	-0.902380499	4.466562625	0.097246097
1	54.5	-0.902380499	4.466562625	0.097246097	55.5	-1.055126826	4.721730669	0.094736440
1	55.5	-1.055126826	4.721730669	0.094736440	56.5	-1.184933443	4.978903744	0.092558749
1	56.5	-1.184933443	4.978903744	0.092558749	57.5	-1.292531809	5.237504753	0.090667650
1	57.5	-1.292531809	5.237504753	0.090667650	58.5	-1.378973111	5.497008915	0.089023438
1	58.5	-1.378973111	5.497008915	0.089023438	59.5	-1.445563111	5.756939907	0.087591418
1	59.5	-1.445563111	5.756939907	0.087591418	60.5	-1.493801210	6.016866693	0.086341291
1	60.5	-1.493801210	6.016866693	0.086341291	61.5	-1.525332827	6.276400575	0.085246598
1	61.5	-1.525332827	6.276400575	0.085246598	62.5	-1.541839648	6.535195541	0.084284401
1	62.5	-1.541839648	6.535195541	0.084284401	63.5	-1.545098045	6.792942366	0.083434649
1	63.5	-1.545098045	6.792942366	0.083434649	64.5	-1.536863318	7.049370425	0.082680040
1	64.5	-1.536863318	7.049370425	0.082680040	65.5	-1.518786093	7.304248994	0.082005843
1	65.5	-1.518786093	7.304248994	0.082005843	66.5	-1.492490290	7.557381995	0.081399411
1	66.5	-1.492490290	7.557381995	0.081399411	67.5	-1.459487925	7.808610136	0.080850107
1	67.5	-1.459487925	7.808610136	0.080850107	68.5	-1.421167427	8.057810266	0.080349080
1	68.5	-1.421167427	8.057810266	0.080349080	69.5	-1.378835366	8.304892397	0.079888977
1	69.5	-1.378835366	8.304892397	0.079888977	70.5	-1.333634661	8.549802669	0.079463915
1	70.5	-1.333634661	8.549802669	0.079463915	71.5	-1.286605147	8.792519752	0.079069193
1	71.5	-1.286605147	8.792519752	0.079069193	72.5	-1.238665517	9.033054944	0.078701180
1	72.5	-1.238665517	9.033054944	0.078701180	73.5	-1.190667160	9.271448675	0.078357096
1	73.5	-1.190667160	9.271448675	0.078357096	74.5	-1.143316882	9.507773605	0.078035021
1	74.5	-1.143316882	9.507773605	0.078035021	75.5	-1.097263403	9.742129356	0.077733651
1	75.5	-1.097263403	9.742129356	0.077733651	76.5	-1.053083813	9.974642178	0.077452242
1	76.5	-1.053083813	9.974642178	0.077452242	77.5	-1.011294273	10.205463310	0.077190512
1	77.5	-1.011294273	10.205463310	0.077190512	78.5	-0.972360231	10.434767230	0.076948562
1	78.5	-0.972360231	10.434767230	0.076948562	79.5	-0.936705887	10.662749930	0.076726804
1	79.5	-0.936705887	10.662749930	0.076726804	80.5	-0.904722736	10.889626990	0.076525901
1	80.5	-0.904722736	10.889626990	0.076525901	81.5	-0.876777097	11.115631770	0.076346711
1	81.5	-0.876777097	11.115631770	0.076346711	82.5	-0.853216568	11.341013460	0.076190236
1	82.5	-0.853216568	11.341013460	0.076190236	83.5	-0.834375406	11.566035120	0.076057579
1	83.5	-0.834375406	11.566035120	0.076057579	84.5	-0.820578855	11.790971760	0.075949901
1	84.5	-0.820578855	11.790971760	0.075949901	85.5	-0.812146460	12.016108280	0.075868383
1	85.5	-0.812146460	12.016108280	0.075868383	86.5	-0.809394398	12.241737530	0.075814185
1	86.5	-0.809394398	12.241737530	0.075814185	87.5	-0.812636889	12.468158240	0.075788413
1	87.5	-0.812636889	12.468158240	0.075788413	88.5	-0.822186712	12.695672980	0.075792075
1	88.5	-0.822186712	12.695672980	0.075792075	89.5	-0.838354876	12.924586130	0.075826044

1	89.5	-0.838354876	12.924586130	0.075826044	90.5	-0.861449493	13.155201820	0.075891019
1	90.5	-0.861449493	13.155201820	0.075891019	91.5	-0.891773904	13.387821850	0.075987476
1	91.5	-0.891773904	13.387821850	0.075987476	92.5	-0.929617736	13.622744200	0.076115636
1	92.5	-0.929617736	13.622744200	0.076115636	93.5	-0.975268944	13.860259860	0.076275395
1	93.5	-0.975268944	13.860259860	0.076275395	94.5	-1.028990493	14.100652340	0.076466299
1	94.5	-1.028990493	14.100652340	0.076466299	95.5	-1.091024455	14.344195220	0.076687482
1	95.5	-1.091024455	14.344195220	0.076687482	96.5	-1.161574946	14.591151390	0.076937631
1	96.5	-1.161574946	14.591151390	0.076937631	97.5	-1.240820737	14.841770070	0.077214912
1	97.5	-1.240820737	14.841770070	0.077214912	98.5	-1.328879402	15.096287900	0.077516968
1	98.5	-1.328879402	15.096287900	0.077516968	99.5	-1.425809463	15.354927290	0.077840877
1	99.5	-1.425809463	15.354927290	0.077840877	100.5	-1.531575592	15.617898220	0.078183177
1	100.5	-1.531575592	15.617898220	0.078183177	101.5	-1.646081976	15.885394640	0.078539804
1	101.5	-1.646081976	15.885394640	0.078539804	102.5	-1.769082483	16.157602010	0.078906277
1	102.5	-1.769082483	16.157602010	0.078906277	103.5	-1.900221246	16.434694180	0.079277694
2	45.0	0.666839915	2.305396985	0.168969897	45.5	0.699616404	2.403256702	0.157654766
2	45.5	0.699616404	2.403256702	0.157654766	46.5	0.747915684	2.606020484	0.139389663
2	46.5	0.747915684	2.606020484	0.139389663	47.5	0.751754737	2.817114082	0.125837223
2	47.5	0.751754737	2.817114082	0.125837223	48.5	0.691329975	3.035356101	0.115888948
2	48.5	0.691329975	3.035356101	0.115888948	49.5	0.559107556	3.259693318	0.108648608
2	49.5	0.559107556	3.259693318	0.108648608	50.5	0.361549127	3.489220170	0.103402703
2	50.5	0.361549127	3.489220170	0.103402703	51.5	0.116436203	3.723195489	0.099599651
2	51.5	0.116436203	3.723195489	0.099599651	52.5	-0.152509094	3.961034945	0.096830356
2	52.5	-0.152509094	3.961034945	0.096830356	53.5	-0.421478627	4.202270022	0.094804770
2	53.5	-0.421478627	4.202270022	0.094804770	54.5	-0.671388289	4.446476028	0.093323068
2	54.5	-0.671388289	4.446476028	0.093323068	55.5	-0.889973526	4.693220151	0.092246459
2	55.5	-0.889973526	4.693220151	0.092246459	56.5	-1.071844454	4.942029343	0.091473166
2	56.5	-1.071844454	4.942029343	0.091473166	57.5	-1.216671445	5.192403337	0.090923715
2	57.5	-1.216671445	5.192403337	0.090923715	58.5	-1.327360462	5.443830096	0.090532906
2	58.5	-1.327360462	5.443830096	0.090532906	59.5	-1.408261687	5.695813280	0.090246768
2	59.5	-1.408261687	5.695813280	0.090246768	60.5	-1.464051065	5.947889759	0.090021128
2	60.5	-1.464051065	5.947889759	0.090021128	61.5	-1.499105627	6.199640267	0.089820688
2	61.5	-1.499105627	6.199640267	0.089820688	62.5	-1.517197913	6.450695818	0.089618171
2	62.5	-1.517197913	6.450695818	0.089618171	63.5	-1.521479703	6.700736725	0.089393174
2	63.5	-1.521479703	6.700736725	0.089393174	64.5	-1.514481331	6.949493534	0.089131254
2	64.5	-1.514481331	6.949493534	0.089131254	65.5	-1.498204976	7.196744733	0.088822943
2	65.5	-1.498204976	7.196744733	0.088822943	66.5	-1.474231858	7.442313819	0.088462854
2	66.5	-1.474231858	7.442313819	0.088462854	67.5	-1.443808911	7.686067039	0.088048963

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    2       67.5       -1.443808911       7.686067039       0.088048963       68.5       -1.407959107
7.927909360       0.087581916
    2       68.5       -1.407959107       7.927909360       0.087581916       69.5       -1.367521025
8.167783677       0.087064605
    2       69.5       -1.367521025       8.167783677       0.087064605       70.5       -1.323243270
8.405666621       0.086501667
    2       70.5       -1.323243270       8.405666621       0.086501667       71.5       -1.275834578
8.641566305       0.085899159
    2       71.5       -1.275834578       8.641566305       0.085899159       72.5       -1.226014257
8.875519723       0.085264271
    2       72.5       -1.226014257       8.875519723       0.085264271       73.5       -1.174555804
9.107590221       0.084605096
    2       73.5       -1.174555804       9.107590221       0.084605096       74.5       -1.122323639
9.337865054       0.083930435
    2       74.5       -1.122323639       9.337865054       0.083930435       75.5       -1.070302348
9.566453061       0.083249631
    2       75.5       -1.070302348       9.566453061       0.083249631       76.5       -1.019617172
9.793482492       0.082572421
    2       76.5       -1.019617172       9.793482492       0.082572421       77.5       -0.971544123
10.019099020       0.081908788
    2       77.5       -0.971544123       10.019099020       0.081908788       78.5       -0.927495981
10.243464670       0.081268832
    2       78.5       -0.927495981       10.243464670       0.081268832       79.5       -0.889046221
10.466753860       0.080662561
    2       79.5       -0.889046221       10.466753860       0.080662561       80.5       -0.857844783
10.689155300       0.080099785
    2       80.5       -0.857844783       10.689155300       0.080099785       81.5       -0.835600041
10.910869240       0.079589888
    2       81.5       -0.835600041       10.910869240       0.079589888       82.5       -0.824007806
11.132107170       0.079141623
    2       82.5       -0.824007806       11.132107170       0.079141623       83.5       -0.824673085
11.353091640       0.078762888
    2       83.5       -0.824673085       11.353091640       0.078762888       84.5       -0.839021353
11.574056230       0.078460511
    2       84.5       -0.839021353       11.574056230       0.078460511       85.5       -0.868191531
11.795246970       0.078240047
    2       85.5       -0.868191531       11.795246970       0.078240047       86.5       -0.912987527
12.016920300       0.078105554
    2       86.5       -0.912987527       12.016920300       0.078105554       87.5       -0.973732843
12.239348380       0.078059544
    2       87.5       -0.973732843       12.239348380       0.078059544       88.5       -1.050238631
12.462818610       0.078102898
    2       88.5       -1.050238631       12.462818610       0.078102898       89.5       -1.141750538
12.687636270       0.078234935
    2       89.5       -1.141750538       12.687636270       0.078234935       90.5       -1.246935039
12.914126800       0.078453576
    2       90.5       -1.246935039       12.914126800       0.078453576       91.5       -1.363881842
13.142639300       0.078755652
    2       91.5       -1.363881842       13.142639300       0.078755652       92.5       -1.490235591
13.373542630       0.079137144
    2       92.5       -1.490235591       13.373542630       0.079137144       93.5       -1.623204367
13.607231970       0.079593737
    2       93.5       -1.623204367       13.607231970       0.079593737       94.5       -1.759750536
13.844122750       0.080121122
    2       94.5       -1.759750536       13.844122750       0.080121122       95.5       -1.896722704
14.084648530       0.080715361
    2       95.5       -1.896722704       14.084648530       0.080715361       96.5       -2.031079769
14.329250180       0.081372938
    2       96.5       -2.031079769       14.329250180       0.081372938       97.5       -2.159985258
14.578373340       0.082090922
    2       97.5       -2.159985258       14.578373340       0.082090922       98.5       -2.280992946
14.832455700       0.082866693
    2       98.5       -2.280992946       14.832455700       0.082866693       99.5       -2.392125361
15.091920120       0.083697706
    2       99.5       -2.392125361       15.091920120       0.083697706       100.5       -2.491985117
15.357161670       0.084580920
    2       100.5       -2.491985117       15.357161670       0.084580920       101.5       -2.579688446
15.628548490       0.085512655
    2       101.5       -2.579688446       15.628548490       0.085512655       102.5       -2.654922113
15.906409030       0.086487929
    2       102.5       -2.654922113       15.906409030       0.086487929       103.5       -2.717782155
16.191039660       0.087500575
    ;
```

```
DATA WTFHT;  **DATA FILE FOR WEIGHT-FOR-STATURE;
INFILE CARDS PAD;
INPUT SEX _HT1 _LWHT1 _MWHT1 _SWHT1 _HT2 _LWHT2 _MWHT2 _SWHT2;
CARDS;
1       77.0       -0.999294215       10.274405270       0.077115837       77.5       -0.979897716
10.389018710       0.076995353
1       77.5       -0.979897716       10.389018710       0.076995353       78.5       -0.943555181
10.617249010       0.076769511
1       78.5       -0.943555181       10.617249010       0.076769511       79.5       -0.910807780
10.844329070       0.076564374
1       79.5       -0.910807780       10.844329070       0.076564374       80.5       -0.882026316
11.070488850       0.076380766
1       80.5       -0.882026316       11.070488850       0.076380766       81.5       -0.857561667
11.295974530       0.076219662
1       81.5       -0.857561667       11.295974530       0.076219662       82.5       -0.837750377
11.521046550       0.076082150
1       82.5       -0.837750377       11.521046550       0.076082150       83.5       -0.822919198
11.745977680       0.075969382
1       83.5       -0.822919198       11.745977680       0.075969382       84.5       -0.813388595
11.971051030       0.075882537
1       84.5       -0.813388595       11.971051030       0.075882537       85.5       -0.809475279
12.196557990       0.075822785
1       85.5       -0.809475279       12.196557990       0.075822785       86.5       -0.811493792
12.422796300       0.075791244
1       86.5       -0.811493792       12.422796300       0.075791244       87.5       -0.819757200
12.650067910       0.075788944
1       87.5       -0.819757200       12.650067910       0.075788944       88.5       -0.834576932
12.878677010       0.075816790
1       88.5       -0.834576932       12.878677010       0.075816790       89.5       -0.856261805
13.108927940       0.075875517
1       89.5       -0.856261805       13.108927940       0.075875517       90.5       -0.885116299
13.341123140       0.075965652
1       90.5       -0.885116299       13.341123140       0.075965652       91.5       -0.921432943
13.575561500       0.076087468
1       91.5       -0.921432943       13.575561500       0.076087468       92.5       -0.965501267
13.812535520       0.076240931
1       92.5       -0.965501267       13.812535520       0.076240931       93.5       -1.017588552
14.052330410       0.076425662
1       93.5       -1.017588552       14.052330410       0.076425662       94.5       -1.077941994
14.295221850       0.076640880
1       94.5       -1.077941994       14.295221850       0.076640880       95.5       -1.146773671
14.541474990       0.076885365
1       95.5       -1.146773671       14.541474990       0.076885365       96.5       -1.224269596
14.791341770       0.077157390
1       96.5       -1.224269596       14.791341770       0.077157390       97.5       -1.310558831
15.045061520       0.077454707
1       97.5       -1.310558831       15.045061520       0.077454707       98.5       -1.405713355
15.302859490       0.077774507
1       98.5       -1.405713355       15.302859490       0.077774507       99.5       -1.509717075
15.564948150       0.078113436
1       99.5       -1.509717075       15.564948150       0.078113436       100.5       -1.622491233
15.831524290       0.078467542
1       100.5       -1.622491233       15.831524290       0.078467542       101.5       -1.743825743
16.102774480       0.078832409
1       101.5       -1.743825743       16.102774480       0.078832409       102.5       -1.873365511
16.378876780       0.079203258
1       102.5       -1.873365511       16.378876780       0.079203258       103.5       -2.010641647
16.659998670       0.079574978
1       103.5       -2.010641647       16.659998670       0.079574978       104.5       -2.154957918
16.946309120       0.079942558
1       104.5       -2.154957918       16.946309120       0.079942558       105.5       -2.305458316
17.237974440       0.080301170
1       105.5       -2.305458316       17.237974440       0.080301170       106.5       -2.461019713
17.535171340       0.080646757
1       106.5       -2.461019713       17.535171340       0.080646757       107.5       -2.620330590
17.838082120       0.080976208
1       107.5       -2.620330590       17.838082120       0.080976208       108.5       -2.781787762
18.146908210       0.081288100
1       108.5       -2.781787762       18.146908210       0.081288100       109.5       -2.943638944
18.461858110       0.081582687
1       109.5       -2.943638944       18.461858110       0.081582687       110.5       -3.103888502
18.783159360       0.081862656
1       110.5       -3.103888502       18.783159360       0.081862656       111.5       -3.260482798
19.111039830       0.082132791
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1	111.5	-3.260482798	19.111039830	0.082132791	112.5	-3.411305599	19.445728030
1	112.5	-3.411305599	19.445728030	0.082400213	113.5	-3.554288672	19.787440040
1	113.5	-3.554288672	19.787440040	0.082674023	114.5	-3.687600863	20.136355630
1	114.5	-3.687600863	20.136355630	0.082964333	115.5	-3.809599339	20.492621110
1	115.5	-3.809599339	20.492621110	0.083282267	116.5	-3.919005213	20.856325420
1	116.5	-3.919005213	20.856325420	0.083638758	117.5	-4.014882272	21.227498900
1	117.5	-4.014882272	21.227498900	0.084044246	118.5	-4.096683061	21.606103660
1	118.5	-4.096683061	21.606103660	0.084508001	119.5	-4.164160421	21.992040700
1	119.5	-4.164160421	21.992040700	0.085038256	120.5	-4.217425718	22.385138200
1	120.5	-4.217425718	22.385138200	0.085641503	121.5	-4.256802224	22.785166280
2	77.0	-0.957840869	10.086532190	0.081713853	77.5	-0.935908436	10.198683510
2	77.5	-0.935908436	10.198683510	0.081394448	78.5	-0.896210420	10.422173240
2	78.5	-0.896210420	10.422173240	0.080780644	79.5	-0.863423474	10.644736590
2	79.5	-0.863423474	10.644736590	0.080208403	80.5	-0.839250279	10.866571460
2	80.5	-0.839250279	10.866571460	0.079687207	81.5	-0.825395013	11.087887140
2	81.5	-0.825395013	11.087887140	0.079225952	82.5	-0.823487667	11.308903970
2	82.5	-0.823487667	11.308903970	0.078832728	83.5	-0.834997067	11.529853310
2	83.5	-0.834997067	11.529853310	0.078514592	84.5	-0.861125495	11.750978720
2	84.5	-0.861125495	11.750978720	0.078277372	85.5	-0.902755880	11.972534160
2	85.5	-0.902755880	11.972534160	0.078125431	86.5	-0.960308955	12.194788830
2	86.5	-0.960308955	12.194788830	0.078061602	87.5	-1.033704489	12.418026820
2	87.5	-1.033704489	12.418026820	0.078087089	88.5	-1.122303405	12.642549630
2	88.5	-1.122303405	12.642549630	0.078201515	89.5	-1.224887418	12.868678510
2	89.5	-1.224887418	12.868678510	0.078403060	90.5	-1.339655646	13.096757860
2	90.5	-1.339655646	13.096757860	0.078688751	91.5	-1.464342037	13.327152020
2	91.5	-1.464342037	13.327152020	0.079054697	92.5	-1.596224732	13.560251560
2	92.5	-1.596224732	13.560251560	0.079496621	93.5	-1.732305592	13.796467930
2	93.5	-1.732305592	13.796467930	0.080010179	94.5	-1.869440665	14.036231650
2	94.5	-1.869440665	14.036231650	0.080591346	95.5	-2.004558693	14.279982320
2	95.5	-2.004558693	14.279982320	0.081236502	96.5	-2.134764169	14.528165800
2	96.5	-2.134764169	14.528165800	0.081942620	97.5	-2.257524917	14.781221960
2	97.5	-2.257524917	14.781221960	0.082707038	98.5	-2.370762249	15.039577460
2	98.5	-2.370762249	15.039577460	0.083527227	99.5	-2.472965302	15.303633030
2	99.5	-2.472965302	15.303633030	0.084400264	100.5	-2.563140425	15.573763400
2	100.5	-2.563140425	15.573763400	0.085322654	101.5	-2.640873937	15.850304300
2	101.5	-2.640873937	15.850304300	0.086289668	102.5	-2.706178899	16.133559300
2	102.5	-2.706178899	16.133559300	0.087295416	103.5	-2.759500412	16.423790370

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     2      103.5      -2.759500412      16.423790370      0.088332358      104.5      -2.801578893
16.721223080      0.089391426
     2      104.5      -2.801578893      16.721223080      0.089391426      105.5      -2.833376069
17.026046170      0.090461996
     2      105.5      -2.833376069      17.026046170      0.090461996      106.5      -2.855987198
17.338413690      0.091532010
     2      106.5      -2.855987198      17.338413690      0.091532010      107.5      -2.870584724
17.658444860      0.092588053
     2      107.5      -2.870584724      17.658444860      0.092588053      108.5      -2.878341197
17.986227850      0.093615622
     2      108.5      -2.878341197      17.986227850      0.093615622      109.5      -2.880404823
18.321818290      0.094599184
     2      109.5      -2.880404823      18.321818290      0.094599184      110.5      -2.877853767
18.665241940      0.095522442
     2      110.5      -2.877853767      18.665241940      0.095522442      111.5      -2.871676584
19.016494570      0.096368448
     2      111.5      -2.871676584      19.016494570      0.096368448      112.5      -2.862774660
19.375539570      0.097119646
     2      112.5      -2.862774660      19.375539570      0.097119646      113.5      -2.851915004
19.742313480      0.097758211
     2      113.5      -2.851915004      19.742313480      0.097758211      114.5      -2.839760032
20.116720140      0.098265916
     2      114.5      -2.839760032      20.116720140      0.098265916      115.5      -2.826824189
20.498636300      0.098624434
     2      115.5      -2.826824189      20.498636300      0.098624434      116.5      -2.813480089
20.887909140      0.098815290
     2      116.5      -2.813480089      20.887909140      0.098815290      117.5      -2.799924586
21.284359650      0.098820000
     2      117.5      -2.799924586      21.284359650      0.098820000      118.5      -2.786142221
21.687785400      0.098620143
     2      118.5      -2.786142221      21.687785400      0.098620143      119.5      -2.771843402
22.097965710      0.098197431
     2      119.5      -2.771843402      22.097965710      0.098197431      120.5      -2.756365595
22.514669770      0.097533789
     2      120.5      -2.756365595      22.514669770      0.097533789      121.5      -2.738514883
22.937669710      0.096611430
     ;

     DATA LGFAGE; SET LGFAGE;
      _AGECAT=_AGEMOS1;
      PROC SORT DATA=LGFAGE; BY SEX _AGECAT;

     DATA HTFAGE; SET HTFAGE;
      _AGECAT=_AGEMOS1;
      PROC SORT DATA=HTFAGE; BY SEX _AGECAT;

     DATA WTFAGE; SET WTFAGE;
      _AGECAT=_AGEMOS1;
      PROC SORT DATA=WTFAGE; BY SEX _AGECAT;

     DATA BMIFAGE; SET BMIFAGE;
      _AGECAT=_AGEMOS1;
      PROC SORT DATA=BMIFAGE; BY SEX _AGECAT;

     DATA HCFAGE; SET HCFAGE;
      _AGECAT=_AGEMOS1;
      PROC SORT DATA=HCFAGE; BY SEX _AGECAT;

     DATA REFFAGE; MERGE LGFAGE HTFAGE WTFAGE BMIFAGE HCFAGE; BY SEX _AGECAT;

     DATA REFFLG; SET WTFLG;
      _HTCAT=_LG1;
      PROC SORT DATA=REFFLG; BY SEX _HTCAT;

     DATA REFFHT; SET WTFHT;
      _HTCAT=_HT1;
      PROC SORT DATA=REFFHT; BY SEX _HTCAT;


     DATA FINFAGE
             ;
         MERGE _INDATA1 (IN=A) REFFAGE (IN=B); BY SEX _AGECAT;
      IF A;
```

```
IF (LENGTH LT 20 OR LENGTH GT 300) THEN DO;
  _LLG=.; _MLG=.; _SLG=.;
  LGZ=.; LGPCT=.;              *FOR MISSING VALUES;
END;
ELSE DO;
_LLG = ((AGEMOS-_AGEMOS1)*(_LLG2-_LLG1)/(_AGEMOS2-_AGEMOS1)+_LLG1);
_MLG = ((AGEMOS-_AGEMOS1)*(_MLG2-_MLG1)/(_AGEMOS2-_AGEMOS1)+_MLG1);
_SLG = ((AGEMOS-_AGEMOS1)*(_SLG2-_SLG1)/(_AGEMOS2-_AGEMOS1)+_SLG1);
  IF (_LLG GT -0.01 AND _LLG LT 0.01) THEN LGZ=LOG(LENGTH/_MLG)/_SLG;
    ELSE LGZ=((LENGTH/_MLG)**_LLG-1)/(_LLG*_SLG);
  LGPCT=PROBNORM(LGZ)*100;
END;

IF (STATURE LT 20 OR STATURE GT 300) THEN DO;
  _LHT=.; _MHT=.; _SHT=.;
  STZ=.; STPCT=.;              *FOR MISSING VALUES;
END;
ELSE DO;
_LHT = ((AGEMOS-_AGEMOS1)*(_LHT2-_LHT1)/(_AGEMOS2-_AGEMOS1)+_LHT1);
_MHT = ((AGEMOS-_AGEMOS1)*(_MHT2-_MHT1)/(_AGEMOS2-_AGEMOS1)+_MHT1);
_SHT = ((AGEMOS-_AGEMOS1)*(_SHT2-_SHT1)/(_AGEMOS2-_AGEMOS1)+_SHT1);
  IF (_LHT GT -0.01 AND _LHT LT 0.01) THEN STZ=LOG(STATURE/_MHT)/_SHT;
    ELSE STZ=((STATURE/_MHT)**_LHT-1)/(_LHT*_SHT);
  STPCT=PROBNORM(STZ)*100;
END;

IF (AGEMOS LT 0 OR AGEMOS GT 240) OR
   (WEIGHT LT 0.5 OR WEIGHT GT 400) THEN DO;
  _LWT=.; _MWT=.; _SWT=.;
  WAZ=.; WTPCT=.;              *FOR MISSING VALUES;
END;
ELSE DO;
_LWT = ((AGEMOS-_AGEMOS1)*(_LWT2-_LWT1)/(_AGEMOS2-_AGEMOS1)+_LWT1);
_MWT = ((AGEMOS-_AGEMOS1)*(_MWT2-_MWT1)/(_AGEMOS2-_AGEMOS1)+_MWT1);
_SWT = ((AGEMOS-_AGEMOS1)*(_SWT2-_SWT1)/(_AGEMOS2-_AGEMOS1)+_SWT1);
  IF (_LWT GT -0.01 AND _LWT LT 0.01) THEN WAZ=LOG(WEIGHT/_MWT)/_SWT;
    ELSE WAZ=((WEIGHT/_MWT)**_LWT-1)/(_LWT*_SWT);
  WTPCT=PROBNORM(WAZ)*100;
END;

IF (AGEMOS LT 24 OR AGEMOS GT 240) OR
   (BMI LT 2 OR BMI GT 80) THEN DO;
  _LBMI=.; _MBMI=.; _SBMI=.;
  BMIZ=.; BMIPCT=.;              *FOR MISSING VALUES;
END;
ELSE DO;
_LBMI = ((AGEMOS-_AGEMOS1)*(_LBMI2-_LBMI1)/(_AGEMOS2-_AGEMOS1)+_LBMI1);
_MBMI = ((AGEMOS-_AGEMOS1)*(_MBMI2-_MBMI1)/(_AGEMOS2-_AGEMOS1)+_MBMI1);
_SBMI = ((AGEMOS-_AGEMOS1)*(_SBMI2-_SBMI1)/(_AGEMOS2-_AGEMOS1)+_SBMI1);
  IF (_LBMI GT -0.01 AND _LBMI LT 0.01) THEN BMIZ=LOG(BMI/_MBMI)/_SBMI;
    ELSE BMIZ=((BMI/_MBMI)**_LBMI-1)/(_LBMI*_SBMI);
  BMIPCT=ROUND(PROBNORM(BMIZ)*100,1);

END;

IF (AGEMOS LT 0 OR AGEMOS GT 36) OR
   (HEADCIR LT 0.5 OR HEADCIR GT 100) THEN DO;
  _LHC=.; _MHC=.; _SHC=.;
  HCZ=.; HCPCT=.;              *FOR MISSING VALUES;
END;
ELSE DO;
_LHC = ((AGEMOS-_AGEMOS1)*(_LHC2-_LHC1)/(_AGEMOS2-_AGEMOS1)+_LHC1);
_MHC = ((AGEMOS-_AGEMOS1)*(_MHC2-_MHC1)/(_AGEMOS2-_AGEMOS1)+_MHC1);
_SHC = ((AGEMOS-_AGEMOS1)*(_SHC2-_SHC1)/(_AGEMOS2-_AGEMOS1)+_SHC1);
  IF (_LHC GT -0.01 AND _LHC LT 0.01) THEN HCZ=LOG(HEADCIR/_MHC)/_SHC;
    ELSE HCZ=((HEADCIR/_MHC)**_LHC-1)/(_LHC*_SHC);
  HCPCT=PROBNORM(HCZ)*100;
END;

DROP _LLG _MLG _SLG _LLG1 _LLG2 _MLG1 _MLG2 _SLG1 _SLG2
     _LHT _MHT _SHT _LWT _MWT _SWT _LBMI _MBMI _SBMI _LHC _MHC _SHC
     _LHT1 _LHT2 _MHT1 _MHT2 _SHT1 _SHT2
     _LWT1 _LWT2 _MWT1 _MWT2 _SWT1 _SWT2
     _LBMI1 _LBMI2 _MBMI1 _MBMI2 _SBMI1 _SBMI2
```

```
     _LHC1 _LHC2 _MHC1 _MHC2 _SHC1 _SHC2 _AGEMOS1 _AGEMOS2;

PROC SORT DATA=FINFAGE; BY SEX _AGECAT _ID;


DATA FINFLG; MERGE _INDATA2 (IN=A) REFFLG (IN=B); BY SEX _HTCAT;
 IF A;
IF (LENGTH LT 45 OR LENGTH GT 103.5) OR
   (WEIGHT LT 0.5 OR WEIGHT GT 400) THEN DO;
 _LWLT=.; _MWLT=.; _SWLT=.;
 WLZ=.; WLPCT=.;              *FOR MISSING VALUES;
END;
ELSE DO;
_LWLT = ((LENGTH-_LG1)*(_LWLG2-_LWLG1)/(_LG2-_LG1)+_LWLG1);
_MWLT = ((LENGTH-_LG1)*(_MWLG2-_MWLG1)/(_LG2-_LG1)+_MWLG1);
_SWLT = ((LENGTH-_LG1)*(_SWLG2-_SWLG1)/(_LG2-_LG1)+_SWLG1);
  IF (_LWLT GT -0.01 AND _LWLT LT 0.01) THEN WLZ=LOG(WEIGHT/_MWLT)/_SWLT;
    ELSE WLZ=((WEIGHT/_MWLT)**_LWLT-1)/(_LWLT*_SWLT);
  WLPCT=PROBNORM(WLZ)*100;
END;
DROP _LG1 _LG2 _HTCAT _LWLT _MWLT _SWLT _LWLG1 _LWLG2 _MWLG1 _MWLG2 _SWLG1 _SWLG2;
PROC SORT DATA=FINFLG; BY SEX _AGECAT _ID;


DATA FINFHT; MERGE _INDATA3 (IN=A) REFFHT (IN=B); BY SEX _HTCAT;
 IF A;
IF (STATURE LT 77 OR STATURE GT 121.5) OR
   (WEIGHT LT 0.5 OR WEIGHT GT 400) THEN DO;
 _LWHT=.; _MWHT=.; _SWHT=.;
 WSZ=.; WSPCT=.;              *FOR MISSING VALUES;
END;
ELSE DO;
_LWHT = ((STATURE-_HT1)*(_LWHT2-_LWHT1)/(_HT2-_HT1)+_LWHT1);
_MWHT = ((STATURE-_HT1)*(_MWHT2-_MWHT1)/(_HT2-_HT1)+_MWHT1);
_SWHT = ((STATURE-_HT1)*(_SWHT2-_SWHT1)/(_HT2-_HT1)+_SWHT1);
  IF (_LWHT GT -0.01 AND _LWHT LT 0.01) THEN WSZ=LOG(WEIGHT/_MWHT)/_SWHT;
    ELSE WSZ=((WEIGHT/_MWHT)**_LWHT-1)/(_LWHT*_SWHT);
  WSPCT=PROBNORM(WSZ)*100;
END;
DROP _HT1 _HT2 _HTCAT _LWHT _MWHT _SWHT _LWHT1 _LWHT2 _MWHT1 _MWHT2 _SWHT1 _SWHT2;
PROC SORT DATA=FINFHT; BY SEX _AGECAT _ID;

DATA _INDATA; MERGE FINFAGE FINFLG FINFHT; BY SEX _AGECAT _ID;
 IF RECUMBNT=1 THEN DO;
   HAZ=LGZ; HTPCT=LGPCT;
   WHZ=WLZ; WHPCT=WLPCT;
 END;
 ELSE IF RECUMBNT=0 THEN DO;
   HAZ=STZ; HTPCT=STPCT;
   WHZ=WSZ; WHPCT=WSPCT;
 END;
 ELSE DO;
  HAZ=.; HTPCT=.;
  WHZ=.; WHPCT=.;
 END;

DROP _AGECAT _ID LGZ LGPCT STZ STPCT WLZ WLPCT WSZ WSPCT LENGTH STATURE;

RUN;
```

F.7 CONSTRUCT\CONVARC.SAS - CONSTRUCT VARIABLES FOR ANALYSIS.

```
*******************************************************************************
* PROGRAM:   CONVARC.SAS
* WRITTEN:   5/23/2000 BY NATALIE JUSTH
* UPDATED:   8/21/2001 BY NATALIE JUSTH FOR 2000 SURVEY
* UPDATED:   10/4/2002 BY NATALIE JUSTH FOR 2002 SURVEY
* UPDATED:   8/29/2003 BY NATALIE JUSTH FOR 2003 SURVEY
* UPDATED:   10/20/2004 BY LUCY LU FOR 2004 SURVEY. ADD CODE TO CREATE
*            XBMI AND XBMICAT
* UPDATED:   12/06/2004 BY JACQUELINE  AGUFA FOR 2004 SURVEY. UPDATED CODE TO CREATE
*            XBMI AND XBMICAT
* UPDATE:    12/27/05 BY LUCY LU FOR 2005 CHILD SURVEY
* UPDATE:    08/02/06 BY LUCY LU FOR 2006 CHILD SURVEY
* UPDATE:    11/26/07 BY LUCY LU FOR 2007 CHILD SURVEY
*
* PURPOSE:   TO CREATE INDEPENDENT VARIABLES: XENRLLMT, XENR_PCM, XINS_COV,
*            XBNFGRP
*            1 INDEPENDENT VARIABLE ALREADY CREATED FROM DEERS-BFGROUPP
*            TO CREATE MORE DEPENDENT VARIABLES: KBGPRB1,
*            KBGPRB2, KMILWAT1, KCIVWAT1, KMILOFFC, KCIVOFFC, KMILOP,
*            KCIVOP, KCIVINS,
* INPUT:     ..\..\DATA\CFINAL\SELECTC.SD2
* OUTPUT:    ..\..\DATA\CFINAL\CONVARC.SD2

*******************************************************************************
*;

LIBNAME IN      v612 '..\..\DATA\CFINAL';
*LIBNAME INBMI   V612 '.';                        /*CDC growth chart datafile. LLU 10/21/04*/
LIBNAME LIBRARY v612 '..\..\DATA\CFINAL\FMTLIB';
OPTIONS PS=79 LS=132 ERRORS=2;
TITLE1 '2007 Health Care Survey of DoD Beneficiaries Study - Child';
TITLE2 'CREATE CONSTRUCTED & OUTCOME MEASURE VARIABLES';


********************************************************************************
* Calculate XBMI- Body Mass Index and XBMICAT- Body Mass Index Category.
* Define 5th, 85th, 95th percentile based on CDC 2000 Growth Chart for age 2-20.
* The Age in years is created at the half year point for the entire year to be
* consistent with the definition of month per CDC.
* 5th, 85th, 95th percentile data is downloaded at CDC website:
* http://www.cdc.gov/nchs/about/major/nhanes/growthcharts/datafiles.htm
* Lucy Lu 10/21/04
****Changed to use output from creatbmi.sas Jacqueline Agufa 12/06/04
********************************************************************************;


DATA BMI(RENAME=(BMIPCT=XBMIPCT OVER=XBMICAT));
  SET IN.CREATBMI;

  FORMAT _ALL_;

RUN;

PROC SORT DATA=BMI; BY MPRID; RUN;
PROC SORT DATA=IN.SELECTC OUT=SELECTC; BY MPRID; RUN;


DATA IN.CONVARC (KEEP = XENRLLMT XENR_PCM XINS_COV /*REGSMPL*/ XTNEXREG
                        ENBGSMPL XBNFGRP XBMIPCT XBMICAT
                        /*KMILWAT1 KCIVWAT1*/ KMILOFFC
                        KCIVOFFC KBGPRB1 KBGPRB2
                        KMILOP KCIVOP
                        MPRID KCIVINS EXCLUDE)
       CONVARC;
    MERGE BMI(IN=A) SELECTC(IN=B);


    BY MPRID;

    IF B;
```

```
    LENGTH
          XBMIPCT   4.
          XBMICAT   3.
          XTNEXREG  3.
          ;


  LABEL
       XENRLLMT    =  "Enrollment in TRICARE Prime"
       XENR_PCM    =  "Enrollment by PCM type"
       XINS_COV    =  "Insurance Coverage"
       /*REGSMPL     =  "Health Care regions " */
       XBNFGRP     =  "Constructed Beneficiary Group"
       /*KMILWAT1    =  "Wait <=4 wks for well patient visit-Mil"
       KCIVWAT1    =  "Wait <=4 wks for well patient visit-Civ"*/
       KMILOFFC    =  "Office wait of >15 min-Mil"
       KCIVOFFC    =  "Office wait of >15 min-Civ"
       KBGPRB1     =  "Big problem getting referrals to spclst"
       KBGPRB2     =  "Big problem getting necessary care"
       KMILOP      =  "Outpatient visits to Military facility"
       KCIVOP      =  "Outpatient visits to Civilian facility"
       KCIVINS     =  "Beneficiary covered by civilian insurance"
       XBMIPCT     =  "Body Mass Index Child Percentile"
       XBMICAT     =  "Body Mass Index Category"
       XTNEXREG    =  "TNEX Region"
       ;


  FORMAT
        XENRLLMT       ENROLL.
        XENR_PCM       PCM.
        XINS_COV       INSURE.
       /* REGSMPL        CREG. */
        XBNFGRP        XBGC_S.
       /*KMILWAT1       HAYNN.
        KCIVWAT1       HAYNN.*/
        KMILOFFC       HAYNN.
        KCIVOFFC       HAYNN.
        KBGPRB1        HAYNN.
        KBGPRB2        HAYNN.
        KMILOP         CTIMES.
        KCIVOP         CTIMES.
        KCIVINS        HAYNN2_.
        XBMICAT        BMICAT.
        XTNEXREG       TNEX.
        ;



/* CREATE INDEPENDENT VARIABLES */


/* XENRLLMT--ENROLLMENT STATUS */
 IF ENBGSMPL IN ('01','02','03','05','06') THEN XENRLLMT = 1; /*   Enrolled  */
 ELSE IF ENBGSMPL IN ('04','07') THEN XENRLLMT = 2;           /*   Not Enrolled */

/* XENR_PCM--ENROLLMENT BY PCM TYPE */
   IF ENBGSMPL IN ('01','03','06') THEN XENR_PCM=1;             /* 1=Enrolled  - mil PCM */
      ELSE IF ENBGSMPL IN ('02','05') THEN XENR_PCM=2;       /* 2=Enrolled  - civ PCM */
      ELSE IF ENBGSMPL IN ('04','07') THEN XENR_PCM=3;       /* 3=Not Enrolled        */

/* XINS_COV--INSURANCE COVERAGE */
  IF C07003 = 1 THEN XINS_COV = 1;                           /* Prime */
  ELSE IF C07003 = 3  THEN XINS_COV = 2;                     /* Standard/Extra */
  ELSE IF C07003 IN (5,6,7,8,9,10) THEN XINS_COV = 3;        /* Other Insurance */
  ELSE IF C07003 = 11 THEN XINS_COV = 4;                     /* TRICARE Reserve Select */


/* CREATE XTNEXREG. JMA 1/17/06*/
/*  IF TNEXREG IN ('N') THEN XTNEXREG=1;
  ELSE IF TNEXREG IN ('S') THEN XTNEXREG=2;
  ELSE IF TNEXREG IN ('W') THEN XTNEXREG=3;
  ELSE IF TNEXREG IN ('O') THEN XTNEXREG=4;
```

```
*/
  IF DHSRGN IN ('01','02','05')                          THEN XTNEXREG=1;
  ELSE IF DHSRGN IN ('03','04','06')                     THEN XTNEXREG=2;
  ELSE IF DHSRGN IN ('07','08','09','10','11','12','AK') THEN XTNEXREG=3;
  ELSE IF DHSRGN IN ('13','14','15')                     THEN XTNEXREG=4;
  ELSE IF DHSRGN IN ('16')                               THEN XTNEXREG=.;


/* XBNFGRP-Beneficiary Group that excludes those 65 and over-Active Duty
           and Family Members of Active Duty */
   XBNFGRP=BGCSMPL;

/* KMILWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT MIL FACILITIES
   KCIVWAT1--WAIT LESS THAN 4 WEEKS FOR WELL PATIENT VISIT AT CIV FACILITIES*/

/*IN Q3 2004 THERE IS NO QUESTIONS FOR WELL-PATIENT CARE, LLU 10/21/04
   *IF C07005 = 1 THEN DO;                              /* Military */
     *IF C07030  IN (1, 2, 3) THEN KMILWAT1 = 1;        /* Yes */
     *ELSE IF C07030 = 4 THEN KMILWAT1 = 2;             /* No  */
   *END;
   *ELSE IF C07005 = 2 THEN DO;                         /* Civilian */
      *IF C07030  IN (1, 2, 3) THEN KCIVWAT1 = 1;      /* Yes */
      *ELSE IF C07030 = 4 THEN KCIVWAT1 = 2;           /* No  */
   *END;

/* KMILOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT MILITARY FACILITES
   KCIVOFFC--OFFICE WAIT OF 15 MINUTES OR MORE AT CIVILIAN FACILITES */
   IF C07005 = 1 THEN DO;                                /* Military */
      IF C07035  IN (1,2) THEN KMILOFFC = 1;              /* Yes */
      ELSE IF C07035  IN (3,4) THEN KMILOFFC = 2;         /* No  */
   END;
      ELSE IF C07005 = 2 THEN DO;                        /* Civilian */
           IF C07035  IN (1,2) THEN KCIVOFFC = 1;         /* Yes */
           ELSE IF C07035  IN (3,4) THEN KCIVOFFC = 2;    /* No */
      END;

/* KBGPRB1--BIG PROBLEM GETTING REFERRALS TO SPECIALISTS */
   IF C07015 = 1 THEN KBGPRB1 = 1;                          /* YES */
      ELSE IF C07015  IN (2,3) THEN KBGPRB1 = 2;            /* NO  */

/* KBGPRB2--BIG PROBLEM GETTING NECESSARY CARE */
   IF C07032 = 1 THEN KBGPRB2 = 1;                         /* YES */
       ELSE IF C07032  IN (2,3) THEN KBGPRB2 = 2;          /* NO  */

/* KMILOP--OUTPATIENT VISITS TO MILITARY FACILITY
   KCIVOP--OUTPATIENT VISITS TO CIVILIAN FACILITY */
   IF C07005 = 1 THEN KMILOP=C07030;
      ELSE IF (C07005=. AND C07030=.) THEN KMILOP=.;
      ELSE KMILOP = 1 ;
   IF C07005 = 2 THEN KCIVOP=C07030;
      ELSE IF (C07005=. AND C07030=.) THEN KCIVOP=.;
      ELSE KCIVOP = 1 ;


/* KCIVINS--IS BENEFICIARY COVERED BY CIVILIAN INSURANCE */
   IF (C07002C=1 OR C07002D=1 OR C07002E=1 OR C07002G=1) THEN KCIVINS=1;  /* YES  */
    ELSE KCIVINS=2;                                         /* NO   */

RUN;


/* CHECK 2007 VARIABLES */
PROC FREQ DATA=CONVARC;
 TABLES XENRLLMT XENR_PCM XINS_COV XBNFGRP TNEXREG /*REGSMPL */
        DHSRGN XTNEXREG KBGPRB1 KBGPRB2
        /*KMILWAT1 KCIVWAT1*/ KMILOFFC KCIVOFFC
        KMILOP KCIVOP KCIVINS
        FIELDAGE XBMIPCT XBMICAT
        / MISSING LIST;
 TITLE3 'ONE WAY FREQUENCIES 2007 CONSTRUCTED VARIABLES';
 RUN;


   PROC FREQ DATA=CONVARC;
```

```
    TABLES ENBGSMPL*XENRLLMT
           ENBGSMPL*XENR_PCM
           XENRLLMT*C07003*XINS_COV
           /*REGSMPL*/
           BGCSMPL*XBNFGRP
           /*C07005*C03030 *KMILWAT1*KCIVWAT1*/
           C07005*C07035 *KMILOFFC*KCIVOFFC
           C07015 *KBGPRB1
           C07032 *KBGPRB2
           C07005*C07030 *KMILOP
           C07005*C07030 *KCIVOP
           C07002C*C07002D*C07002E*C07002G*KCIVINS
           C07083F*C07083I*C07084*XBMICAT
           C07083F*C07083I*C07084*EXCLUDE

           / MISSING LIST;
     TITLE3 'CROSSTABS ON ALL NEW VARIABLES';
            RUN;

   PROC FREQ DATA=CONVARC;
      TABLES    EXCLUDE C07083F C07083I C07084

           / MISSING LIST;
      WHERE fnstatus=11;
      TITLE3 'respondents-CROSSTABS ON ALL NEW VARIABLES';
            RUN;

   PROC FREQ DATA=CONVARC;
      tables /*TNEXREG*XTNEXREG*/

             DHSRGN*XTNEXREG

           / MISSING LIST;
      format _all_;
   run;



 PROC FREQ DATA=CONVARC;
      tables  C07083F*C07083I*C07084*XBMICAT
           / MISSPRINT LIST;
     WHERE XBMICAT<0 ;
TITLE 'CHECK MISSING XBMICAT';
   run;

PROC CONTENTS DATA =IN.CONVARC;
RUN;
```

F.8 CONSTRUCT\MERGEC.SAS - MERGE CONSTRUCTED VARIABLES ONTO DATA FILE.

```
*******************************************************************************
* PROGRAM:   MERGEC.SAS
* WRITTEN:   5/23/00 BY NATALIE JUSTH
* UPDATED:   8/23/01 BY NATALIE JUSTH FOR 2000 SURVEY
* UPDATED:   10/4/02 BY NATALIE JUSTH FOR 2002 SURVEY
* UPDATED:   8/29/03 BY NATALIE JUSTH FOR 2003 SURVEY
* UPDATED:   10/22/04 BY LUCY LU FOR 2004 SURVEY
*            11/10/2004 BY LUCY LU, DROP VARIABLE STIELIG.
* UPDATED:   12/27/06 BY LUCY LU FOR Q3 2005 SURVEY
* UPDATE:    2/21/05 BY JACQUELINE AGUFA SET "EXCLUDED" CASES FROM CREATBMI TO
*             "Out of Range"
* UPDATED:   08/02/06 BY LUCY LU FOR Q3 2006 SURVEY
* UPDATED:   11/26/07 BY  FOR Q4 2007 SURVEY
*
* 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)  NRC variables
*                           6)  recoded questionnaire responses
*                           7)  coding scheme flags
*                           8)  constructed variables
*                           9)  weights  (NOT AVAILABLE FOR PRELIMINARY DATA)
* INPUT:     ..\..\DATA\CFINAL\SELECTC.SD2
*            ..\..\DATA\CFINAL\CONVARC.SD2
* OUTPUT:    ..\..\DATA\CFINAL\MERGEC.SD2
*******************************************************************************
*;

LIBNAME   IN       v612 '..\..\DATA\CFINAL';
LIBNAME   OUT      v612 '..\..\DATA\CFINAL';
LIBNAME   LIBRARY  v612 '..\..\DATA\CFINAL\FMTLIB';
OPTIONS PS=75 LS=111 ERRORS=2 COMPRESS=YES;

PROC SORT DATA=IN.SELECTC OUT=SELECTC;
BY MPRID;
RUN;


PROC SORT DATA=IN.CONVARC OUT=CONVARC;
BY MPRID;
RUN;


DATA MERGEC(DROP=
C07001_O
C07002AO
C07002BO
C07002CO
C07002DO
C07002EO
C07002FO
C07002GO
C07002HO
C07002IO
C07002JO
C07002KO
C07003_O
C07004_O
C07005_O
C07006_O
C07007_O
C07008_O
C07009_O
C07010_O
C07011_O
```

C07012_O
C07013_O
C07014_O
C07015_O
C07016_O
C07017_O
C07018_O
C07019_O
C07020_O
C07021AO
C07021BO
C07021CO
C07021DO
C07021EO
C07021FO
C07021GO
C07021HO
C07021IO
C07022_O
C07023_O
C07024_O
C07025_O
C07026_O
C07027_O
C07028_O
C07029_O
C07030_O
C07031_O
C07032_O
C07033_O
C07034_O
C07035_O
C07036_O
C07037_O
C07038_O
C07039_O
C07040_O
C07041_O
C07042_O
C07043_O
C07044_O
C07045_O
C07046_O
C07047_O
C07048_O
C07049_O
C07050_O
C07051_O
C07052_O
C07053_O
C07054_O
C07055_O
C07056_O
C07057_O
C07058_O
C07059_O
C07060_O
C07061_O
C07062_O
C07063_O
C07064_O
C07065_O
C07066_O
C07067_O
C07068_O
C07069_O
C07070_O
C07071_O
C07072_O
C07073_O
C07074_O
C07075_O
C07076_O
C07077_O

```
C07078_O
C07079AO
C07079BO
C07079CO
C07079DO
C07079EO
C07079FO
C07079GO
C07079HO
C07080AO
C07080BO
C07080CO
C07080DO
C07081_O
C07082_O
C07083FO
C07083IO
C07084_O
C07085_O
C07086_O
C07087_O
C07087AO
C07087BO
C07087CO
C07087DO
C07087EO
C07088AO
C07088BO
C07088CO
C07088DO
C07088EO
C07089_O
C07090_O
C07091_O
C07092_O
C07093_O

C07083FN
C07083IN
C07084N
C07085N

DHSRGN

EXCLUDE
);
   MERGE SELECTC(in=hcsdb RENAME=(FLAG_FIN=OLDFIN)) CONVARC ;
   BY MPRID;
   if hcsdb;

   FLAG_FIN=PUT(OLDFIN,4.);   *12/27/05 LLU;
   DROP OLDFIN;

   FORMAT
   AGESMPL         AGESMPL.
   BGCSMPL         XBGC_S.
   ENBGSMPL        $ENBGS.
   MRTLSTAT        $MSTATUS.
   RACEETHN        $RACECD.
   PCM             $PCM.
   PNLCATCD        $PNLCAT.
   MBRRELCD        $MBRREL.
   DBENCAT         $BENCAT.
   DMEDELG         $MEDELG.
   DSPONSVC        $SPONSVC.
   MEDTYPE         $MEDTYP.
/*   LEGDDSCD        $DDSFMT. */
   FLAG_FIN        $final.
   CONUS           CONUSMHS.
   PATCAT          $AGGBCAT.
   MISS_1          HAMISS.
   MISS_4          HAMISS.
   MISS_5          HAMISS.
   MISS_6          HAMISS.
```

```
   MISS_7          HAMISS.
   MISS_8          HAMISS.
   MISS_9          HAMISS.
   MISS_TOT        HAMISS.
/*   REGSMPL         CREGSMPL. */
   MPCSMPL         MPCSMPL.
   SVCSMPL         SVCSMPL.
   SEXSMPL         HASEX.
   ENLSMPL         ENLSMP.
   FNSTATUS        FNSTATS.
   DHSRGN          $DHSRGN.
   WEB             WEB.
   XBMICAT         BMICAT.
   XTNEXREG        TNEX.
   TNEXREG         $TNEXREG.
   TNEXSMPL        TNEX.
   ENRID           $MISSCHR.
   ACV             $ACV2_.
   PNTYPCD  $PNTYPCD.
   ;

   LABEL
      ONTIME   = "On time indicator"
      WEB      = "Web/mail-out survey indicator"
      FLAG_FIN = "Final Disposition"
      PCM      = "Primary Manager Code (CIV or MIL)"
       ;

RUN;

 DATA OUT.MERGEC;


   LENGTH

       MPRID       $ 8         /* ID                */
       MPCSMPL       5         /* sampling variable */
       SVCSMPL       5         /* sampling variable */
       SEXSMPL       5         /* sampling variable */
       AGESMPL       8         /* sampling variable */
       BGCSMPL       8         /* sampling variable */
     /*  REGSMPL       3 */        /* sampling variable */
       ENBGSMPL    $ 2         /* sampling variable */
       STRATUM     $ 3         /* sampling variable */
       TNEXREG     $ 1         /* sampling variable */
       TNEXSMPL      8         /* sampling variable */
       E1          $ 1         /* sampling variable */
       E2          $ 1         /* sampling variable */
       E3          $ 1         /* sampling variable */
       E4          $ 1         /* sampling variable */
       E5          $ 1         /* sampling variable */
       E6          $ 1         /* sampling variable */
       E7          $ 1         /* sampling variable */

       MRTLSTAT    $ 1         /* DEERS variable    */
       RACEETHN    $ 1         /* DEERS variable    */
       DAGEQY      $ 3         /* DEERS variable    */
       FIELDAGE    $ 3         /* DEERS variable    */
       PCM         $ 3         /* DEERS variable    */
       /*LEGDDSCD    $ 2*/         /* DEERS variable    */
       PNTYPCD     $ 1         /* DEERS variable    */
       PNLCATCD    $ 1         /* DEERS variable    */
       MBRRELCD    $ 1         /* DEERS variable    */
       DBENCAT     $ 3         /* DEERS variable    */
       DMEDELG     $ 1         /* DEERS variable    */
       DSPONSVC    $ 1         /* DEERS variable    */
       MEDTYPE     $ 1         /* DEERS variable    */
       PATCAT      $ 7         /* DEERS variable    */
       ENRID       $ 4         /* DEERS variable    */
       DCATCH      $ 4         /* DEERS variable    */
       /*DHSRGN      $ 2*/         /* DEERS variable    */
       ACV         $ 1         /* DEERS variable    */

       ENLSMPL       8         /* post-stratification variable    */
```

```
FNSTATUS      8          /* post-stratification variable    */
KEYCOUNT      8          /* post-stratification variable    */
POSTSTR     $ 3          /* post-stratification variable    */

C07001        4          /* questionnaire     */
C07002A       4          /* questionnaire     */
C07002B       4          /* questionnaire     */
C07002C       4          /* questionnaire     */
C07002D       4          /* questionnaire     */
C07002E       4          /* questionnaire     */
C07002F       4          /* questionnaire     */
C07002G       4          /* questionnaire     */
C07002H       4          /* questionnaire     */
C07002I       4          /* questionnaire     */
C07002J       4          /* questionnaire     */
C07002K       4          /* questionnaire     */
C07003        4          /* questionnaire     */
C07004        4          /* questionnaire     */
C07005        4          /* questionnaire     */
C07006        4          /* questionnaire     */
C07007        4          /* questionnaire     */
C07008        4          /* questionnaire     */
C07009        4          /* questionnaire     */
C07010        4          /* questionnaire     */
C07011        4          /* questionnaire     */
C07012        4          /* questionnaire     */
C07013        4          /* questionnaire     */
C07014        4          /* questionnaire     */
C07015        4          /* questionnaire     */
C07016        4          /* questionnaire     */
C07017        4          /* questionnaire     */
C07018        4          /* questionnaire     */
C07019        4          /* questionnaire     */
C07020        4          /* questionnaire     */
C07021A       4          /* questionnaire     */
C07021B       4          /* questionnaire     */
C07021C       4          /* questionnaire     */
C07021D       4          /* questionnaire     */
C07021E       4          /* questionnaire     */
C07021F       4          /* questionnaire     */
C07021G       4          /* questionnaire     */
C07021H       4          /* questionnaire     */
C07021I       4          /* questionnaire     */
C07022        4          /* questionnaire     */
C07023        4          /* questionnaire     */
C07024        4          /* questionnaire     */
C07025        4          /* questionnaire     */
C07026        4          /* questionnaire     */
C07027        4          /* questionnaire     */
C07028        4          /* questionnaire     */
C07029        4          /* questionnaire     */
C07030        4          /* questionnaire     */
C07031        4          /* questionnaire     */
C07032        4          /* questionnaire     */
C07033        4          /* questionnaire     */
C07034        4          /* questionnaire     */
C07035        4          /* questionnaire     */
C07036        4          /* questionnaire     */
C07037        4          /* questionnaire     */
C07038        4          /* questionnaire     */
C07039        4          /* questionnaire     */
C07040        4          /* questionnaire     */
C07041        4          /* questionnaire     */
C07042        4          /* questionnaire     */
C07043        4          /* questionnaire     */
C07044        4          /* questionnaire     */
C07045        4          /* questionnaire     */
C07046        4          /* questionnaire     */
C07047        4          /* questionnaire     */
C07048        4          /* questionnaire     */
C07049        4          /* questionnaire     */
C07050        4          /* questionnaire     */
C07051        4          /* questionnaire     */
C07052        4          /* questionnaire     */
```

```
C07053       4         /* questionnaire     */
C07054       4         /* questionnaire     */
C07055       4         /* questionnaire     */
C07056       4         /* questionnaire     */
C07057       4         /* questionnaire     */
C07058       4         /* questionnaire     */
C07059       4         /* questionnaire     */
C07060       4         /* questionnaire     */
C07061       4         /* questionnaire     */
C07062       4         /* questionnaire     */
C07063       4         /* questionnaire     */
C07064       4         /* questionnaire     */
C07065       4         /* questionnaire     */
C07066       4         /* questionnaire     */
C07067       4         /* questionnaire     */
C07068       4         /* questionnaire     */
C07069       4         /* questionnaire     */
C07070       4         /* questionnaire     */
C07071       4         /* questionnaire     */
C07072       4         /* questionnaire     */
C07073       4         /* questionnaire     */
C07074       4         /* questionnaire     */
C07075       4         /* questionnaire     */
C07076       4         /* questionnaire     */
C07077       4         /* questionnaire     */
C07078       4         /* questionnaire     */
C07079A      4         /* questionnaire     */
C07079B      4         /* questionnaire     */
C07079C      4         /* questionnaire     */
C07079D      4         /* questionnaire     */
C07079E      4         /* questionnaire     */
C07079F      4         /* questionnaire     */
C07079G      4         /* questionnaire     */
C07079H      4         /* questionnaire     */
C07080A      4         /* questionnaire     */
C07080B      4         /* questionnaire     */
C07080C      4         /* questionnaire     */
C07080D      4         /* questionnaire     */
C07081       4         /* questionnaire     */
C07082       4         /* questionnaire     */
C07083F      4         /* questionnaire     */
C07083I      4         /* questionnaire     */
C07084       4         /* questionnaire     */
C07085       4         /* questionnaire     */
C07086       4         /* questionnaire     */
C07087       4         /* questionnaire     */
C07087A      4         /* questionnaire     */
C07087B      4         /* questionnaire     */
C07087C      4         /* questionnaire     */
C07087D      4         /* questionnaire     */
C07087E      4         /* questionnaire     */
C07088A      4         /* questionnaire     */
C07088B      4         /* questionnaire     */
C07088C      4         /* questionnaire     */
C07088D      4         /* questionnaire     */
C07088E      4         /* questionnaire     */
C07089       4         /* questionnaire     */
C07090       4         /* questionnaire     */
C07091       4         /* questionnaire     */
C07092       4         /* questionnaire     */
C07093       4         /* questionnaire     */


ONTIME      $ 3         /* Survey fielding variable */
FLAG_FIN    $ 4         /* Survey fielding variable */
DUPFLAG     $ 3         /* Survey fielding variable */
WEB           8         /* Survey fielding variable */
MIQCNTL    $ 12         /* Survey fielding variable */


N1A           4         /* CS flag variable     */
N1            4         /* CS flag variable     */
N2            4         /* CS flag variable     */
N3            4         /* CS flag variable     */
```

```
        N4            4         /* CS flag variable     */
        N5            4         /* CS flag variable     */
        N6            4         /* CS flag variable     */
        N7            4         /* CS flag variable     */
        N8            4         /* CS flag variable     */
        N9            4         /* CS flag variable     */
        N10           4         /* CS flag variable     */
        N11           4         /* CS flag variable     */
        N12           4         /* CS flag variable     */
        N13           4         /* CS flag variable     */
        N14           4         /* CS flag variable     */
        N15           4         /* CS flag variable     */
        N16           4         /* CS flag variable     */
        N17           4         /* CS flag variable     */
        N18           4         /* CS flag variable     */
        N19           4         /* CS flag variable     */
        N20           4         /* CS flag variable     */
        N21           4         /* CS flag variable     */
        N22           4         /* CS flag variable     */
        N23           4         /* CS flag variable     */
        N24           4         /* CS flag variable     */
        N25           4         /* CS flag variable     */
        N26           4         /* CS flag variable     */
        N27           4         /* CS flag variable     */
        MISS_1        8         /* CS Count             */
        MISS_4        8         /* CS Count             */
        MISS_5        8         /* CS Count             */
        MISS_6        8         /* CS Count             */
        MISS_7        8         /* CS Count             */
        MISS_8        8         /* CS Count             */
        MISS_9        8         /* CS Count             */
        MISS_TOT      8         /* CS Count             */


        CONUS         3         /* constructed       */
        XENRLLMT      8         /* constructed       */
        XENR_PCM      8         /* constructed       */
        XINS_COV      8         /* constructed       */
        XBNFGRP       8         /* constructed       */
        XBMIPCT       4         /* constructed       */
        XBMICAT       3         /* constructed       */
        XTNEXREG      3         /* constructed       */
        KMILOFFC      8         /* constructed       */
        KCIVOFFC      8         /* constructed       */
        KBGPRB1       8         /* constructed       */
        KBGPRB2       8         /* constructed       */
        KMILOP        8         /* constructed       */
        KCIVOP        8         /* constructed       */
        KCIVINS       8         /* constructed       */
        BWT           8         /* Weights           */
       ;

    SET MERGEC;

     RUN;

PROC CONTENTS DATA=OUT.MERGEC POSITION;
RUN;
```

F.9 WEIGHTING\CHILD\ADJWT.SAS - CALCULATE ADJUSTED WEIGHTS.

```
*****************************************************************
*** Project: DoD Child Sampling - Nonresponse adjustments
***
*** Program: F:\DOD\Q3FY2006\Programs\Weighting\child\adjwt.sas,
***
*** TASK:    2006 CHILD DOD HEALTH CARE SURVEY
*** PURPOSE: CALCULATE THE FINAL WEIGHT.
***          WEIGHTS FOR DOD CHILD SURVEY.
***          DOD HEALTH CARE SURVEY FILE.
***          REQUESTED BY DON JANG.
*** WRITTEN: 11/09/1999 BY KEITH RATHBUN
*** Updated: 1)10/01/2003 by Esther Friedman
***          2)12/18/2003 By Haixia Xu
***          3)10/11/2004 by Haixia Xu for 2004 child weighting
***          4)10/26/2004 by Lucy Lu for child late response weighting
***          5)11/23/2004 by Haixia Xu for reweighting due to the fnstatus coding changes
***
***
*** INPUTS:  selectc.SD2
***          FRAMEC.SD2
***
*** OUTPUT:  adjwt.SD2
***
*************************************************************************
*;
*** libname for the input and output data ***;
LIBNAME IN  v6 "..\..\..\DATA\Cfinal";
LIBNAME OUT v6   "..\..\..\DATA\Cfinal";
*LIBNAME LIBRARY  "..\..\..\DATA\Cfinal\fmtlib";

%include "..\design_effects_unequal_weights.sas";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER /*mprint mlogic symbolgen*/;

title1 'Child DoD Survey of Health Beneficiaries';
title2 'Calculate the Final Weights';
************************************************************************
* Calculate final weight based on user-specified domains.
************************************************************************;

%MACRO PROCESS(DOMAIN,FORM,INPT);

   *** Initial Information. ***;

   title5 'FRAMEC.SD2 Count';

   proc freq data=in.framec;
   table enlsmpl agesmpl tnexsmpl / list missing;
   run;

   title5 'selectc.SD2 Counts Using BWT as the Weight';

   proc freq data=in.&inpt.;
   table enlsmpl agesmpl tnexsmpl fnstatus / list missing;
   weight BWT;
   format _all_;
   run;

   title5 'selectc.SD2 Counts';

   proc freq data=in.&inpt.;
   table enlsmpl agesmpl tnexsmpl fnstatus
   web*enlsmpl web*agesmpl web*tnexsmpl web*fnstatus/ list missing;
   format _all_;
   run;

   *** Create the adjustment cells for nonresponse. ***;

   data &inpt. (KEEP = MPRID FNSTATUS BWT enlsmpl tnexsmpl sexsmpl svcsmpl agesmpl stratum
poststr);;
   set in.&inpt.;
```

```
   format _all_;
   run;

PROC SORT DATA=&inpt. OUT=&INPT.;
BY &DOMAIN.;
RUN;

*************************************************************************
* Calculate adjustment factor A1 for each cell.
* This is the Eligibility Determination adjustment.
*************************************************************************;
DATA CELLSA1  (KEEP=SUMBWT SUMG1-SUMG4 A1 CELLCNT cntg1-cntg4 &domain.)
     MPRIDSA1 (KEEP=MPRID FNSTATUS BWT &DOMAIN. enlsmpl tnexsmpl agesmpl)
    ;
   SET &INPT.;
   BY &DOMAIN;

   IF FIRST.&DOMAIN. THEN DO;
      CELLCNT = 0;
      cntg1   = 0;
      cntg2   = 0;
      cntg3   = 0;
       cntg4   = 0;
      SUMBWT  = 0.0;
      SUMG1   = 0.0;
      SUMG2   = 0.0;
      SUMG3   = 0.0;
       SUMG4   = 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;

   ****************************************************
   * Accumulate group 4 weight sum
   ****************************************************;

   ELSE IF FNSTATUS = 32 THEN
      do;
```

```
         SUMG4 + BWT;
         cntg4 + 1;
      end;

   RETAIN SUMBWT SUMG1-SUMG4 A1 CELLCNT cntg1-cntg4 MPRID;

   IF LAST.&DOMAIN. THEN DO;
      A1 = (SUMG1 + SUMG2 + SUMG3)/(SUMG1 + SUMG2);
      OUTPUT CELLSA1;
   END;

   OUTPUT MPRIDSA1;

RUN;


title5 'Check for CELLSA1 Data Set';

proc print data=cellsa1;
var stratum cntg1-cntg4 cellcnt sumg1-sumg4 sumBWT a1;
sum cellcnt cntg1 cntg2 cntg3 cntg4 sumBWT sumg1 sumg2 sumg3 sumg4;
run;

proc print data=cellsa1;
where ( a1 > 3.25 ) or ( cntg1 + cntg2 < 10 );
var stratum cntg1-cntg4 cellcnt sumg1-sumg4 sumBWT a1;
sum cellcnt cntg1 cntg2 cntg3 cntg4 sumBWT sumg1 sumg2 sumg3 sumg4;
run;

proc univariate data=cellsa1 normal plot;
var a1;
run;

proc sort data=mpridsa1;
by &domain.;
run;

proc sort data=cellsa1;
by &domain.;
run;

data adj_one;
merge mpridsa1 cellsa1;
by &domain.;
if fnstatus in (11,12,20,31) then adj1 = a1;
   else if fnstatus = 32 then adj1=1;
   else adj1 = 0;
adj_wt1 = adj1 * BWT;
run;

title5 'Checks for ADJ_ONE Data Set';

proc freq data=adj_one;
table stratum*fnstatus*adj1 / list missing;
run;

proc means data=adj_one n sum NOPRINT;
class fnstatus;
var adj_wt1;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

proc means data=adj_one n sum NOPRINT;
class enlsmpl;
var adj_wt1;
output out=print sum=sum;
run;

Proc print data=print;
```

```
sum sum;
where _type_=1;
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 &domain.;
run;

DATA CELLSA2 (KEEP= &domain. NUMER DENOM numercnt denomcnt A2);
   set adj_one ;
   BY &domain.;

   IF FIRST.&domain. THEN DO;
      A2 = 0.0;
      NUMER = 0.0;
      DENOM = 0.0;
      numercnt = 0;
      denomcnt = 0;
   END;


   RETAIN NUMER DENOM A2 numercnt denomcnt;

   IF FNSTATUS IN (11,12,20) THEN
      do;
         NUMER + adj_wt1;
         numercnt + 1;
      end;

   IF FNSTATUS = 11 THEN
      do;
         DENOM + adj_wt1;
         denomcnt + 1;
      end;

   IF LAST.&domain. THEN DO;
      A2 = NUMER/DENOM;
      OUTPUT CELLSA2;
   END;

RUN;

title5 'Check for CELLSA2 Data Set';

proc print data=cellsa2;
var &domain. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

proc print data=cellsa2;
where ( a2 > 3.25 ) or ( denomcnt < 10 );
var &domain. numercnt denomcnt numer denom a2;
sum numer denom numercnt denomcnt;
run;

proc univariate data=cellsa2 normal plot;
var a2;
run;

proc sort data=adj_one;
by &domain.;
run;

proc sort data=cellsa2;
by &domain.;
run;

data adj_two;
merge adj_one cellsa2;
```

```
by &domain.;
if fnstatus = 11 then adj2 = a2;
   else if fnstatus in (31, 32) then adj2 = 1;
   else adj2 = 0;
adjwt = adj2 * adj_wt1;
label adjwt = 'Adjusted Weight';
KEEP MPRID fnstatus adj1 adj2 adjwt stratum enlsmpl;
run;

title5 'Check for ADJ_TWO Data Set';

proc freq data=adj_two;
table stratum*fnstatus*adj2 / list missing;
run;

proc means data=adj_two n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

proc means data=adj_two n sum NOPRINT;
class enlsmpl;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
sum sum;
where _type_=1;
run;

data adj_two;
set adj_two(drop=fnstatus enlsmpl);
run;

***************************************************************************
* Sort the original data
***************************************************************************;

PROC SORT DATA=&INPT. OUT=&INPT.;
BY MPRID;
RUN;

***************************************************************************
* Sort the ADJ_TWO data set
***************************************************************************;

PROC SORT DATA=adj_two;
BY MPRID;
RUN;

***************************************************************************
* Append final weight variable (adjwt)
***************************************************************************;
DATA OUT.adjwt;
   MERGE adj_two &INPT.;
   BY MPRID;
RUN;

title5 'Checks for adjwt Data Set';

proc means data=out.adjwt n sum NOPRINT;
class fnstatus;
var adjwt;
output out=print sum=sum;
run;

Proc print data=print;
```

```
sum sum;
where _type_=1;
run;

proc means data=out.adjwt n sum;
class stratum;
var BWT adjwt;
run;

proc sort data=out.adjwt out=chk;
by stratum fnstatus;
run;

data sub_chk;
set chk(keep = stratum fnstatus BWT adj1 adj2 adjwt);
by stratum 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;
var stratum fnstatus BWT adj1 adj2 prodadjs adjwt cellcnt sumadjwt;
sum cellcnt sumadjwt;
run;

proc univariate data=sub_chk normal plot;
where prodadjs ~= 0;
var prodadjs;
run;

proc univariate data=out.adjwt;
where fnstatus=11;
var adjwt;
run;


%MEND PROCESS;

*************************************************************************
* Calculate final weight based on user-specified parameters.
*************************************************************************;

%PROCESS(stratum,c,selectc);


RUN;
```

F.10 WEIGHTING\DESIGN_EFFECTS_UNEQUAL_WEIGHTS.SAS - INCLUDE FILE FOR ADJWT.SAS.

```
*************************************************************************


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_ );
      design_effect  =  (  _freq_  *  sum_&weight_variable._sq  )  /  (  sum_&weight_variable.  *
sum_&weight_variable. );
   run;

   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_ );
      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.11 WEIGHTING\CHILD\RECOUNTC.SAS - CREATE THE COUNT DATA SET FOR THE CHILD SURVEY.

```
***************************************************************************
*** Project:        2006 Health Care Survey of DoD Beneficiaries - Child
***
*** Purpose: Create the count data set for the child survey.  This consists
***          of the population counts by various cell definitions:
***
***             PSUM0 = Stratifcation Variable Count
***             PSUM1 = tnexsmpl Count
***             PSUM2 = ENLSMPL Count
***             PSUM3 = AGESMPL Count
***             TOTAL = Total Population
***
*** Input: FRAMEC.sd2
*** Output: recountc.sd2
***
*** Updated: 10/11/2004 by Haixia Xu
****************************************************************************;

*** Setup the titles. ***;
title1 '2004 Health Care Survey of DoD Beneficiaries - Child';
title2 'Create population counts by various cell definitions.';

*** Setup the options. ***;
options ls=132 ps=79 nocenter compress=yes mlogic mprint symbolgen;

*** Setup the paths where the files are located. ***;
libname in  v6 '..\..\..\Data\Cfinal';
libname out  v6  '..\..\..\Data\Cfinal';

proc freq data=in.framec;
  tables stratum*tnexsmpl*enlsmpl*agesmpl/list;
  run;

*** Set the stratification variable. ***;
%let strata = stratum;

* get sampling vars before collapsements;
data framec ;
   set in.framec;
run;

TITLE5 "FREQS of sample FRAMEC.SD2";
PROC FREQ DATA=framec;
   TABLES &strata. tnexsmpl ENLSMPL AGESMPL
  /MISSING LIST;
RUN;

PROC SORT DATA=framec OUT=FRAMEC;
   BY &strata. tnexsmpl ENLSMPL AGESMPL;
RUN;

PROC MEANS DATA=FRAMEC NOPRINT;
   BY  &strata. tnexsmpl ENLSMPL AGESMPL;
   VAR ENLSMPL;
   OUTPUT
   OUT=T0(KEEP=&strata. tnexsmpl ENLSMPL AGESMPL)
   N=DUMMY;
RUN;

PROC FREQ DATA=FRAMEC NOPRINT;
   TABLES &strata.
  /MISSING LIST OUT=T1(RENAME=(COUNT=PSUM0)
                KEEP=COUNT &strata.) NOPERCENT NOCUM NOPRINT;
RUN;

PROC FREQ DATA=FRAMEC NOPRINT;
   TABLES tnexsmpl
  /MISSING LIST OUT=T2(RENAME=(COUNT=PSUM1)
                KEEP=COUNT tnexsmpl) NOPERCENT NOCUM NOPRINT;
RUN;
```

```
PROC FREQ DATA=FRAMEC NOPRINT;
   TABLES ENLSMPL
  /MISSING LIST OUT=T3(RENAME=(COUNT=PSUM2)
                KEEP=COUNT ENLSMPL) NOPERCENT NOCUM NOPRINT;
RUN;

PROC FREQ DATA=FRAMEC NOPRINT;
   TABLES AGESMPL
  /MISSING LIST OUT=T4(RENAME=(COUNT=PSUM3)
                KEEP=COUNT AGESMPL) NOPERCENT NOCUM NOPRINT;
RUN;

PROC SORT DATA=T0; BY &strata.; RUN;
DATA T0;
   MERGE T0 T1;
   BY  &strata.;
RUN;

PROC SORT DATA=T0; BY tnexsmpl; RUN;
DATA T0;
   MERGE T0 T2;
   BY  tnexsmpl;
RUN;

PROC SORT DATA=T0; BY ENLSMPL; RUN;
DATA T0;
   MERGE T0 T3;
   BY  ENLSMPL;
RUN;

PROC SORT DATA=T0; BY AGESMPL; RUN;

proc means data=framec noprint;
var prn;
output out=total n=total;
run;

DATA OUT.recountc;
if _n_=1 then set total(drop = _type_ _freq_);
   MERGE T0 T4;
   BY  AGESMPL;
   LABEL PSUM0 = 'PSUM0 - &strata. Count'
         PSUM1 = 'PSUM1 - tnexsmpl Count'
         PSUM2 = 'PSUM2 - ENLSMPL Count'
         PSUM3 = 'PSUM3 - AGESMPL Count'
         TOTAL = 'TOTAL Population'
        ;
RUN;

TITLE5 "Information for recountc.SD2";

PROC CONTENTS data=out.recountc;
RUN;

PROC PRINT data=out.recountc;
var &strata. tnexsmpl enlsmpl agesmpl psum0-psum3 total;
sum psum0;
RUN;
```

F.12 WEIGHTING\CHILD\POSTSTR4.SAS - CHILD SAMPLING - POSTSTRATIFICATION ADJUSTMENTS.

```
*************************************************************************
*** Project:        DoD Child Sampling - Poststratification adjustments
***
*** TASK:    2006 CHILD DOD HEALTH CARE SURVEY
*** PURPOSE: BUILD AND ASSIGN FINAL WEIGHTS - POST STRATIFICATION - Child Survey.
***          WEIGHTS FOR CHILD DOD SURVEY.
***          DOD HEALTH CARE SURVEY FILE.
***          REQUESTED BY DON JANG.
*** WRITTEN: 12/30/99 BY KEITH RATHBUN
*** UPDATED: 10/01/03 BY Esther Friedman
*** UPDATED: 12/18/03 BY Haixia Xu
*** UPDATED: 10/11/2004 by Haixia Xu
***
*** INPUTS:   adjwt.SD2 - Adjusted Weights file - Form C
***           recountc.sd2
***           framec.sd2
***           selectc.sd2
*** OUTPUTS   POST_WT.SD2 - Final Weights file - Form C
*****************************************************************************;

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER mprint mlogic symbolgen;

*** libname for the input and output data ***;
LIBNAME IN  v6 "..\..\..\Data\Cfinal"; /* adjwt.sd2, recountc.sd2, framec.sd2, selectc.sd2 */
LIBNAME OUT v6 "..\..\..\Data\Cfinal"; /* post_wt.sd2 */

%include "..\design_effects_unequal_weights.sas";

title1 'Child DoD Survey of Health Beneficiaries';
title2 'Calculate the Poststratified Weights';

%MACRO PROCESS(DOMAIN,FORM,INPT);

*********************************************************************
* Sort the adjusted weights file by user-specified domains
*********************************************************************;
PROC SORT DATA=IN.&inpt.
          OUT=ADJWT(KEEP=FNSTATUS MPRID ADJWT &DOMAIN);
     BY &DOMAIN;
RUN;

*********************************************************************
* Assign cell names and calculate the sum of ADJWT
*********************************************************************;
DATA CELLS  (KEEP=SUMADJWT SUMFN11 &DOMAIN)
     MPRIDS (KEEP=MPRID FNSTATUS ADJWT &DOMAIN)
    ;
   SET &inpt.;
   BY &DOMAIN;

   IF FIRST.&DOMAIN THEN DO;
      SUMADJWT   = 0.0;
      SUMFN11  = 0;
   END;

   *********************************************************************
   * Accumulate sum of adjusted weight
   *********************************************************************;
   SUMADJWT + ADJWT;

   *********************************************************************
   * COUNT the FNSTATUS = 11 within each DOMAIN
   *********************************************************************;
   IF FNSTATUS = 11 THEN SUMFN11 + 1;

   RETAIN SUMADJWT SUMFN11;

   IF LAST.&DOMAIN THEN DO;
      OUTPUT CELLS;
      SUMADJWT  = 0.0;
      SUMFN11  = 0;
```

```
   END; * DOMAIN;
   OUTPUT MPRIDS;
RUN;

************************************************************************
* Merge the population counts and calculate the adjusted population (AP)
************************************************************************;
DATA recountc;
SET IN.recountc (KEEP = stratum PSUM0);
   POSTSTR = stratum;
   POP = PSUM0;
RUN;

PROC SORT DATA=recountc OUT=recountc; BY &DOMAIN; RUN;

DATA AP;
   MERGE recountc CELLS;
   BY &DOMAIN;
   AP = POP/SUMADJWT;
RUN;

************************************************************************
* Merge the adjusted population and calculate the final weight (WRWT)
************************************************************************;
DATA POST_WT;
   MERGE AP(IN=IN1) MPRIDS(IN=IN2);
   BY &DOMAIN;

   IF IN2 THEN DO;
      WRWT = AP*ADJWT;
      OUTPUT;
   END;

   LABEL WRWT     = 'Final Weight';
   LABEL AP       = 'Poststratification Adjustment Factor';
   LABEL POP      = 'DEERS population by CELLNAME for weights';
   LABEL SUMFN11  = 'COUNT of FNSTATUS=11 within CELLNAME';

   KEEP FNSTATUS WRWT ADJWT AP MPRID POP SUMFN11 &DOMAIN;
RUN;

PROC MEANS DATA=POST_WT NOPRINT;
   VAR POP WRWT AP SUMFN11;
   BY &DOMAIN;
   OUTPUT OUT=STATS(KEEP=POSTSTR DEERSPOP PSA_CNT AP_MEAN FN11CNT )
                    SUM= DUMMY1   PSA_CNT DUMMY2  DUMMY3
                    MEAN=DUMMY4   DUMMY5  AP_MEAN DUMMY6
                    MAX= DEERSPOP DUMMY7  DUMMY8  FN11CNT;
RUN;

PROC PRINT;
   SUM DEERSPOP AP_MEAN PSA_CNT FN11CNT;
RUN;

proc sort data=cells;
by &domain.;
run;

proc sort data=post_wt;
by &domain.;
run;

data printchk;
merge cells post_wt;
by &domain;
run;

proc sort data=printchk;
by mprid;
run;

title4 "Print of key variables for 50 records";

Proc print data=Printchk (obs=50);
```

```
var &domain. AP ADJWT WRWT ;
where wrwt~=0;
run;
************************************************************************
* Sort the original data and append the final weight (WRWT)
************************************************************************;

PROC SORT DATA=IN.&INPT. OUT=ADJWT TAGSORT; BY MPRID; RUN;
PROC SORT DATA=POST_WT TAGSORT; BY MPRID; RUN;

DATA OUT.POST_WT;
   MERGE ADJWT POST_WT;
   BY MPRID;
RUN;

************************************************************************
* Counts for population total for enrollment group, age, and superregion
************************************************************************;

TITLE4 "POPULATION COUNTS";

PROC FREQ data=in.framec;
   TABLE ENLSMPL AGESMPL tnexsmpl;
RUN;

************************************************************************
* Weighted frequencies for enrollment group, age, and superregion
* using poststratification adjusted weight
************************************************************************;

TITLE4 "WEIGHTED FREQUENCIES";

PROC FREQ data=in.post_wt;
   WEIGHT WRWT;
   TABLE ENLSMPL AGESMPL tnexsmpl;
RUN;

title4 "CHECK Individual Level WRWT";
proc univariate data=in.post_wt normal;
where fnstatus=11;
var wrwt;
run;

************************************
***Added on 10/15/2004 by Haixia Xu for 2004 child weighting***
Merge post_wt with selectc to get the variable MPCSMPL
Merge post_wt with framec to get the variable TNEXREG
************************************;
data selectc;
set in.selectc(keep=MPRID MPCSMPL);
run;

data framec;
set in.framec(keep=MPRID TNEXREG);
run;

proc sort data=in.post_wt out=post_wt;
by MPRID;
run;

proc sort data=selectc;
by MPRID;
run;

proc sort data=framec;
by MPRID;
run;

data merged;
merge post_wt(in=A) selectc(in=B) framec(in=C);
by MPRID;
if MPCSMPL=1 then MPCSMPLc=1;
else MPCSMPLc=2;
label MPCSMPLc="Collapsed MPCSMPL:1-Enlisted/Unknown, 2-Officer/Warrant";
```

```
if A and B and C;
run;

proc contents data=merged;
run;

title4 "Freq of MPCSMPLc*MPCSMPL";
proc freq data=merged;
table MPCSMPLc*MPCSMPL/missing list;
run;

data OUT.post_wt;
set merged;
run;

************************************;
*** Calculate the Design Effects ***;
************************************;
data post_wt_fnl11;
set in.post_wt;
where fnstatus=11;
run;

%design_effects_unequal_weights ( post_wt_fnl11, tnexsmpl, WRWT, deff_overall, deff_tnex );
%design_effects_unequal_weights ( post_wt_fnl11, agesmpl , WRWT, deff_overall, deff_age );
%design_effects_unequal_weights ( post_wt_fnl11, enlsmpl, WRWT, deff_overall, deff_enl );
%design_effects_unequal_weights ( post_wt_fnl11, svcsmpl, WRWT, deff_overall, deff_svc );
%design_effects_unequal_weights ( post_wt_fnl11, sexsmpl, WRWT, deff_overall, deff_sex );
***Below was Added on 10/15/2004 by Haixia Xu for 2004 child weighting;
%design_effects_unequal_weights ( post_wt_fnl11, MPCSMPLc, WRWT, deff_overall, deff_mpc );
%design_effects_unequal_weights ( post_wt_fnl11, TNEXREG, WRWT, deff_overall, deff_tnex );

title4 "design effect overall";
proc print data = deff_overall;
run;

title4 "design effect by tnexsmpl";
proc print data= deff_tnex;
sum _freq_;
run;

title4 "design effect by agesmpl";
proc print data= deff_age;
sum _freq_;
run;

title4 "design effect by enlsmpl";
proc print data= deff_enl;
sum _freq_;
run;

title4 "design effect by svcsmpl";
proc print data= deff_svc;
sum _freq_;
run;

title4 "design effect by sexsmpl";
proc print data= deff_sex;
sum _freq_;
run;

title4 "design effect by MPCSMPLc";
proc print data= deff_mpc;
sum _freq_;
run;

title4 "design effect by TNEXREG";
proc print data= deff_tnex;
sum _freq_;
run;

**************************************
***Added on 10/15/2004 by Haixia Xu for 2004 child weighting
Calculate the weighted total and the population total by TNEXREG
```

```
*************************************;
title4 "weighted total by TNEXREG,TNEXREG*agesmpl,TNEXREG*sexsmpl using final weight WRWT";
proc freq data=in.post_wt;
tables TNEXREG TNEXREG*agesmpl TNEXREG*sexsmpl /missing list;
weight WRWT;
run;

title4 "Population total by TNEXREG,TNEXREG*agesmpl,TNEXREG*sexsmpl";
proc freq data=in.framec;
tables TNEXREG TNEXREG*agesmpl TNEXREG*sexsmpl /missing list;
run;

%MEND PROCESS;

%PROCESS(poststr,C,adjwt);
```

F.13 WEIGHTING\CHILD\REPWT.SAS - CALCULATE REPLICATED WEIGHTS.

```
***************************************************************************
*** Project:        DoD Child Sampling - Poststratification adjustments
**
*** TASK:    2006 DOD HEALTH CARE SURVEY ANALYSIS (8676-610)
*** PURPOSE: BUILD AND ASSIGN JK WEIGHTS - POST STRATIFICATION - CHILD SURVEY
***          WEIGHTS FOR DOD SURVEY.
***          DOD HEALTH CARE SURVEY FILE.
***          REQUESTED BY DON JANG.
*** WRITTEN: 12/30/99 BY KEITH RATHBUN
*** REVISED: 10/01/2003 BY Esther Friedman
*** UPDATED: 1)12/18/2003 BY Haixia Xu
***          2)10/11/2004 by Haixia Xu
***          3)11/22/2004 by Haixia Xu for rewighting due to the fnstatus changes
***
*** INPUTS:   1) POST_WT.SD2 - Final Weights file - Form C
*** OUTPUTS   1) REPWT.SD2 - JackKnife (JK) Weights file - Form C
***************************************************************************
*;

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER /*mprint mlogic symbolgen*/ ;

*** libname for the count***;
LIBNAME IN    v6 "..\..\..\Data\Cfinal";
LIBNAME OUT   v6 "..\..\..\Data\Cfinal";

%MACRO PROCESS(DOMAIN1, DOMAIN2, FORM);

*********************************************************************
* Sort the final weights file by user-specified domains
*********************************************************************;
PROC SORT DATA=IN.post_wt
          OUT=post_wt(KEEP=FNSTATUS MPRID BWT &DOMAIN1 &DOMAIN2)
         ;
     BY &DOMAIN1;
RUN;

*********************************************************************
* Append SUBSET index (I) to each observation
*********************************************************************;
DATA SUBSETS;
   SET post_wt;
   BY &DOMAIN1;

   IF _N_ = 1 OR MOD(_N_-1,60) = 0 THEN SUBSET = 1;
   ELSE SUBSET + 1;

   RETAIN SUBSET;
   BBWT = BWT*(60/59);
RUN;

*********************************************************************
*********************************************************************
* Generate JackKnife/replicated weights WRWT01-WRWT60
*********************************************************************
*********************************************************************;
%DO I = 1 %TO 60;

DATA SUBSET;
   SET SUBSETS;
   IF &I = SUBSET THEN DELETE; *Remove the current subset;
RUN;

*********************************************************************
* Calculate adjustment factor A1 for each cell
*********************************************************************;
DATA CELLSA1  (KEEP=SUMBBWT SUMG1-SUMG4 A1 CELLNAME CELLCNT)
     MPRIDSA1 (KEEP=CELLNAME MPRID FNSTATUS BBWT &DOMAIN1 &DOMAIN2)
    ;
   SET SUBSET;
   BY &DOMAIN1;
```

```
   LENGTH CELLNAME $25;
   CELLNAME = PUT(&DOMAIN1,5.);

   IF FIRST.&DOMAIN1 THEN DO;
      CELLCNT = 0;
      SUMBBWT = 0.0;
      SUMG1   = 0.0;
      SUMG2   = 0.0;
      SUMG3   = 0.0;
      SUMG4   = 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 SUMG1 + BBWT;
   ****************************************************
   * Accumulate group 2 weight sum
   ****************************************************;
   ELSE IF FNSTATUS = 20 THEN SUMG2 + BBWT;
   ****************************************************
   * Accumulate group 3 weight sum
   ****************************************************;
   ELSE IF FNSTATUS = 31 THEN SUMG3 + BBWT;
   ****************************************************
   * Accumulate group 4 weight sum
   ****************************************************;
   ELSE IF FNSTATUS = 32 THEN SUMG4 + BBWT;

   RETAIN SUMBBWT SUMG1-SUMG4 A1 CELLNAME CELLCNT MPRID;

   IF LAST.&DOMAIN1 THEN DO;
      A1 = (SUMBBWT-SUMG4)/(SUMG1 + SUMG2 + SUMG3);
      OUTPUT CELLSA1;
      CELLCNT = 0;
      SUMBBWT = 0.0;
      SUMG1   = 0.0;
      SUMG2   = 0.0;
      SUMG3   = 0.0;
       SUMG4   = 0.0;
   END; * DOMAIN;
   OUTPUT MPRIDSA1;
RUN;

*************************************************************************
* Calculate adjustment factor A2 for each cell
*************************************************************************;
DATA CELLSA2 (KEEP=CELLNAME CELLCNT A1 A2 NUMER DENOM);
   MERGE MPRIDSA1 CELLSA1;
   BY CELLNAME;

   IF FIRST.CELLNAME THEN DO;
      A2 = 0.0;
      NUMER = 0.0;
      DENOM = 0.0;
   END;
   RETAIN NUMER DENOM A2;

   IF FNSTATUS IN(11,12,20) THEN NUMER + BBWT*A1;
   IF FNSTATUS  = 11 THEN DENOM + BBWT*A1;

   IF LAST.CELLNAME THEN DO;
      A2 = NUMER/DENOM;
      OUTPUT CELLSA2;
   END;
RUN;

*************************************************************************
```

```
* Calculate Adjusted Weight
*************************************************************************;
DATA ADJWGT;
   MERGE CELLSA2 MPRIDSA1;
   BY CELLNAME;
   IF FNSTATUS = 11 THEN
      AWT = A1*A2*BBWT;
   ELSE IF FNSTATUS IN(12,20,41,42) THEN
      AWT = 0;
   ELSE IF FNSTATUS =31 THEN
      AWT = A1*BBWT;
   ELSE IF FNSTATUS =32 THEN
      AWT = BBWT;
   KEEP MPRID FNSTATUS AWT BBWT &DOMAIN1 &DOMAIN2;
RUN;

************************************************************************
* Begin final weight code
************************************************************************
* Assign cell names and calculate the sum of AWT
************************************************************************;

PROC SORT DATA=ADJWGT; BY &DOMAIN2; RUN;

DATA CELLS  (KEEP=SUMAWT &DOMAIN2)
     MPRIDS (KEEP=MPRID FNSTATUS AWT &DOMAIN1 &DOMAIN2)
    ;
   SET ADJWGT;
   BY &DOMAIN2;

   IF FIRST.&DOMAIN2 THEN DO;
      SUMAWT  = 0.0;
   END;

   ***********************************************************************
   * Accumulate sum of adjusted weight
   ***********************************************************************;
   SUMAWT + AWT;

   RETAIN SUMAWT;

   IF LAST.&DOMAIN2 THEN DO;
      OUTPUT CELLS;
      SUMAWT  = 0.0;
   END; * DOMAIN;
   OUTPUT MPRIDS;
RUN;

************************************************************************
* Merge the population counts and calculate the adjusted population (AP)
************************************************************************;
DATA recountc;
SET in.recountc (KEEP = stratum PSUM0);
   POSTSTR = stratum;
   POP = PSUM0;
RUN;

PROC SORT DATA=recountc OUT=recountc; BY &DOMAIN2; RUN;

DATA AP;
   MERGE recountc CELLS ;
   BY &DOMAIN2;
   AP = POP/SUMAWT;
RUN;

************************************************************************
* Merge the adjusted population and calculate JackKnife Weights
* (WRWT1-WRWT60)
************************************************************************;
DATA SUBSET&I(KEEP=MPRID SUBSET JKWEIGHT);
   MERGE AP(IN=IN1) MPRIDS(IN=IN2);
   BY &DOMAIN2;

   SUBSET = &I;
```

```
   IF IN2 THEN DO;
      JKWEIGHT = AP*AWT;
      OUTPUT;
   END;

RUN;

PROC SORT DATA=SUBSET&I; BY MPRID; RUN;

************************************************************************
************************************************************************
* End of JackKnife/replicated weights WRWT01-WRWT60 assignments
************************************************************************
************************************************************************;
%END;

************************************************************************
* Combine all of the JackKnife weight subsets by MPRID
************************************************************************;
DATA ALLSETS;
   SET SUBSET1   SUBSET2   SUBSET3   SUBSET4   SUBSET5
       SUBSET6   SUBSET7   SUBSET8   SUBSET9   SUBSET10
       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(60) WRWT1-WRWT60; RETAIN WRWT1-WRWT60;
   IF FIRST.MPRID THEN DO;
      DO I = 1 TO 60; DROP I;
         JKWT(I) = . ;
      END;
   END;
   JKWT(SUBSET) = JKWEIGHT;
   IF LAST.MPRID THEN OUTPUT;
   KEEP MPRID WRWT1-WRWT60 SUBSET;
RUN;

************************************************************************
* Sort the original data, get the final weight (WRWT), append the
* JackKnife/Replicated weights (WRWT1-WRWT60), and label variables.
************************************************************************;
PROC SORT DATA=IN.POST_WT
          OUT=POST_WT;
     BY MPRID;
RUN;

DATA OUT.REPWT;
   MERGE POST_WT 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 "2004 DOD Health Survey Final/Replicated Weights";
TITLE2 "Program Output: REPWT.SD2";

**************************************************
/** Added on 10/15/2004 **/
Check the structure of the data set OUT.repwt;
**************************************************;
proc sort data=OUT.repwt out=sorted1;
by stratum MPRID;
run;

proc print data=sorted1 (obs=500);
var stratum MPRID SUBSET fnstatus wrwt wrwt1-wrwt5;
run;

** End of the modification;


PROC CONTENTS DATA=OUT.REPWT;

PROC MEANS DATA=OUT.REPWT n mean stddev min max sum;
VAR  WRWT WRWT1-WRWT60;
RUN;

PROC SORT DATA=OUT.REPWT;
BY MPRID;
```

```
RUN;

DATA OUT.REPWT;
   SET OUT.REPWT;
   BY MPRID;

   ARRAY WGTS(60) WRWT1-WRWT60;
   DO I = 1 TO 60; DROP I;
      IF WGTS(I) EQ . THEN WGTS(I) = 0;
   END;

   KEEP MPRID BWT adjwt POP POSTSTR FNSTATUS WRWT WRWT1-WRWT60;
RUN;

PROC SORT DATA=OUT.REPWT; BY &DOMAIN2; RUN;
PROC MEANS DATA=OUT.REPWT NOPRINT;
   VAR POP WRWT;
   BY &DOMAIN2;
   OUTPUT OUT=STATS(KEEP=&DOMAIN2 DEERSPOP POPCNT)
                    SUM= DUMMY1   POPCNT
                    MAX= DEERSPOP DUMMY2;
RUN;
Proc print data=stats;

PROC MEANS DATA=OUT.REPWT n mean stddev min max sum;
VAR WRWT WRWT1-WRWT60;
RUN;

****************************************************
/** Added on 10/15/2004 **/
Check the structure of the data set OUT.repwt;
****************************************************;
data repwt2;
  set out.repwt;
  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 adjwt wrwt1-wrwt60;
output out = check2 sum= / autoname;
run;

proc print data = check2;
run;
** End of the modification;

***Added on 10/15/2004 for 2004 child weighting.
Drop the variable fnstatus which was not kept in the previous years;
data OUT.repwt;
set OUT.repwt;
drop fnstatus ;
run;

%MEND;

%PROCESS(stratum, POSTSTR, C);
```

F.14 WEIGHTING\CHILD\RESPONSE_RATE\TABLE02.SAS - CALCULATE RESPONSE RATES.

```
     ***************************************************************************
     *
     * PROGRAM: TABLE02.SAS
     * TASK:    2006 DOD HEALTH CARE SURVEY ANALYSIS (6244-300)
     * 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) 01/30/2003, Esther Friedman - added nested macro so it would run for all 4 quarters
trickle files
     * INCLUDES: 1) TABLE02.IN1
     *           2) TABLE02.IN2
     * UPDATED: 1)12/22/2003 By Haixia Xu
     *          2)10/19/2004 by Haixia Xu for 2004 data
     *          3)10/26/2004 by Haixia Xu after the late response
     *          4)11/23/2004 BY Haixia Xu for the reweighting due to the fnstatus coding changes
     *           5)01/27/2006 by Haixia Xu for 2005 child RR -- Change supreg to tnexsmpl, and fix
enlsmpl
     *          6)08/07/2006 by Haixia Xu for 2006 child RR
     ****************************************************************************;
     *LIBRARIES;

      LIBNAME IN4    v8   "..\..\..\..\Data\Cfinal"; /* newmerge.sd7 */
      LIBNAME DODIN4 v6   "..\..\..\..\Data\Cfinal"; /* selectc.sd2 */

     OPTIONS PS=79 LS=132 COMPRESS=YES ERRORS=1 NOCENTER NOFMTERR;

     %let folder=Q4FY2007;
     %LET DATE=11-14-2007;

     %macro doit;
       %do qtr=4 %to 4;

     ************************************************************************
     * Merge repwt and selectc files to add ebg_com
     ************************************************************************;

     data IN&qtr..newmerge;
      set DODIN&qtr..selectc;
      format _all_;

     /*this part below is added for 2005 to correct PCM.
     We should remove it in 2006, since PCM is correct in STI file*/

     if tnexreg in ('N', 'S', 'W') then do;
        LENGTH PCM_OLD $3.;

        PCM_OLD=PCM;

        IF ACV = 'Z' THEN PCM = ' ';

        ELSE IF ACV = ' ' THEN PCM = ' ';

        ELSE IF ('6900' < ENRID <= '6919' OR
            '7900' < ENRID <= '7919' OR
            '8000' < ENRID < '8090' OR
            '0190' <= ENRID <= '0199')
            THEN PCM='CIV';

        ELSE PCM='MTF';


        if pcm in ('MTF', 'CIV') then enlsmpl = 1;
        if pcm = ' ' then enlsmpl = 2;
     end;
```

```
else if tnexreg = 'O' then do; enlsmpl=9; end;
else enlsmpl = 4;


if tnexsmpl in (1,2,3) then conus=1;
else conus=0;

run;

proc freq;
tables tnexreg*pcm_old*pcm tnexreg*pcm*enlsmpl tnexsmpl*conus/missing list;
run;

data IN&qtr..newmerge;
set IN&qtr..newmerge(drop=pcm_old);
run;

%MACRO PROCESS(INPT,FORM);


************************************************************************
* Process OVERALL Summary of response rates
************************************************************************
;

DATA _NULL_;
   SET IN&qtr..&INPT END=FINISHED;
   format _all_;
   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;
   END;
*****************************************************
* 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;
****************************************************
* 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 "F:\&folder.\Data\Cfinal\Response_Rate\TABLE02&FORM..OUT" LRECL=132;
   PUT; PUT;
   PUT @001 "TABLE 2: OVERALL RESPONSE RATES SUMMARY";
   PUT @001 "1DATE., TASK: 6244-300";
   PUT;
   PUT "SUMMARY OF GROUP COUNTS: FORM &FORM";
   PUT;
   PUT @050 "UNWEIGHTED COUNT"
       @100 "WEIGHTED COUNT"
      ;
   PUT @040 'FLR'
       @050 'FCR'
       @060 'FRR'
       @070 'POP'
       @090 'FLR'
       @100 'FCR'
       @110 'FRR'
       @120 'POP'
      ;
   %INCLUDE "F:\&folder.\Programs\Weighting\child\Response_Rate\TABLE02.IN2";
RUN;
```

```
%MEND PROCESS;

************************************************************************
* Process Single Domain where domain1 is the variable of interest
************************************************************************;

%MACRO PROCESS1(DOMAIN1,INPT,FORM);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1; RUN;


DATA _NULL_;
   SET &INPT;
   format _all_;
   BY &DOMAIN1;
   FILE "F:\&folder.\Data\Cfinal\Response_Rate\&DOMAIN1..OUT" LRECL=132;
   LENGTH VARNAME1 $8;
   LENGTH VARIABLE $30;
   CALL VNAME(&DOMAIN1,VARNAME1);
   VARIABLE = VARNAME1;
   %INCLUDE "F:\&folder.\Programs\Weighting\child\Response_Rate\TABLE02.IN1";
   IF LAST.&DOMAIN1 THEN DO;
      PUT @001 &DOMAIN1 @;
      %INCLUDE "F:\&folder.\Programs\Weighting\child\Response_Rate\TABLE02.IN2";
   END; * DOMAIN;
RUN;
%MEND PROCESS1;

*************************************************************************
* Process Double Domain where domain1/domain2 are the variables of interest
*************************************************************************
;
%MACRO PROCESS2(DOMAIN1,DOMAIN2,INPT,FORM);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1 &DOMAIN2; RUN;

DATA _NULL_;
   format _all_;
   SET &INPT;
   BY &DOMAIN1 &DOMAIN2;
   FILE "F:\&folder.\Data\Cfinal\Response_Rate\&DOMAIN1&DOMAIN2..OUT" LRECL=132;
   LENGTH VARNAME1 $8;
   LENGTH VARNAME2 $8;
   LENGTH VARIABLE $30;
   CALL VNAME(&DOMAIN1,VARNAME1);
   CALL VNAME(&DOMAIN2,VARNAME2);
   VARIABLE = VARNAME1 || " " || VARNAME2;
   %INCLUDE "F:\&folder.\Programs\Weighting\child\Response_Rate\TABLE02.IN1";
   IF LAST.&DOMAIN2 THEN DO;
      PUT @001 &DOMAIN1 @;
      PUT @025 &DOMAIN2 @;
      %INCLUDE "F:\&folder.\Programs\Weighting\child\Response_Rate\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;
RUN;
%MEND PROCESS2;

*************************************************************************
* Process Triple Domain where domain1-3 are the variables of interest
*************************************************************************
;
%MACRO PROCESS3(DOMAIN1,DOMAIN2,DOMAIN3,INPT,FORM);

*LIBNAME LIBRARY &LIB;

PROC SORT DATA=IN&qtr..&INPT OUT=&INPT ; BY &DOMAIN1 &DOMAIN2 &DOMAIN3; RUN;

DATA _NULL_;
  format _all_;
   SET &INPT;
   BY &DOMAIN1 &DOMAIN2 &DOMAIN3;
   FILE "F:\&folder.\Data\Cfinal\Response_Rate\&DOMAIN1&DOMAIN2&DOMAIN3..OUT" LRECL=132;
   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 "F:\&folder.\Programs\Weighting\child\Response_Rate\TABLE02.IN1";
   IF LAST.&DOMAIN3 THEN DO;
      PUT @001 &DOMAIN1 @;
      PUT @015 &DOMAIN2 @;
      PUT @035 &DOMAIN3 @;
      %INCLUDE "F:\&folder.\Programs\Weighting\child\Response_Rate\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;
RUN;

%MEND PROCESS3;


*********************************************************
* PROCESS OVERALL RESPONSE RATE TABULATION - FORM C
*********************************************************
;
%PROCESS(newmerge, C);

*********************************************************
* PROCESS SINGLE DOMAIN RESPONSE RATE TABULATION - FORM C
*********************************************************
;
%PROCESS1(tnexsmpl, newmerge, "FORM C");
%PROCESS1(enlsmpl, newmerge, "FORM C");
%PROCESS1(conus, newmerge, "FORM C");
%PROCESS1(agesmpl,  newmerge, "FORM C");
*%PROCESS1(raceethn,  selectc, "FORM A",
        "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(ebg_com,  selectc, "FORM A",
```

```
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(enbgsmpl, selectc, "FORM A",
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(cacsmpl, selectc, "FORM A",
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS1(patcat, selectc, "FORM A",
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");

*********************************************************
* PROCESS DOUBLE DOMAIN RESPONSE RATE TABULATION - FORM A
*********************************************************
;
*%PROCESS2(patcat, svcsmpl, selectc, "FORM A",
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS2(patcat, sexsmpl, selectc, "FORM A",
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS2(patcat, raceethn,selectc, "FORM A",
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*%PROCESS2(xregion, cacsmpl,selectc, "FORM A",
         "J:\&PERIOD\DATA\AFINAL\FMTLIB");
*********************************************************
* PROCESS TRIPLE DOMAIN RESPONSE RATE TABULATION - FORM A
*********************************************************
;
*%PROCESS3(XXXXXXXX, XXXXXXXX, XXXXXXXX, XXXXXXXX, "FORM A",
         *"D:\KEITH\&PERIOD\DATA\FMTLIB");

                 %end; *end of do for each quarter;
                 %mend doit;
                 %doit;
run;
```

F.15 WEIGHTING\CHILD\RESPONSE_RATE\TABLE02.IN1 - INCLUDE FILE1 USED TO CALCULATE 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
*
* MODIFIED:
* 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).
*
*************************************************************************
*;
IF _N_ = 1 THEN DO;
   PUT; PUT;
   PUT @001 "TABLE 2: RESPONSE RATES BY DOMAIN SUMMARY";
   PUT @001 "&DATE.";
   PUT;
   PUT "SUMMARY OF GROUP COUNTS: " &FORM;
   PUT "VARIABLE = " VARIABLE;
   PUT;
   PUT @050 "UNWEIGHTED COUNT"
       @100 "WEIGHTED COUNT"
      ;
   PUT @040 'FLR'
       @050 'FCR'
       @060 'FRR'
       @070 'POP'
       @090 'FLR'
       @100 'FCR'
       @110 'FRR'
       @120 '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;
END;
****************************************************
* 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;
*****************************************************
* 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.16 WEIGHTING\CHILD\RESPONSE_RATE\TABLE02.IN2 - INCLUDE FILE2 USED TO CALCULATE 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
*
* MODIFIED:
* 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.
*
*****************************************************************************
*;

   *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 @040 FLR1  4.3
       @050 FCR1  4.3
       @060 FRR1  4.3
       @066 SN      7.0
       @090 FLR2  4.3
       @100 FCR2  4.3
       @110 FRR2  4.3
       @116 WN    7.0
      ;
```

F.17 WEIGHTING\ADDWGTSC.SAS - MERGE WEIGHTS ONTO DATA FILE.

```
*************************************************************************
*
* PROGRAM:  ADDWGTS.SAS
* TASK:     DOD HEALTH CARE SURVEY ANALYSIS (6077-220)
* PURPOSE:  MERGE THE FINAL WEIGHTS FILE WITH THE FINAL
*           QUESTIONNAIRE/SAMPLE FILE
*
* WRITTEN:  02/02/2001 BY KEITH RATHBUN
*
* INPUTS:   1) REPWT.SD2  - Final/Replicated Weights file - FORM A
*           2) MERGEC.SD2 - Final FORM C Questionnaire/Sample File
*
* OUTPUTS:  1) HCSyyc_n.SD2 - Final FORM C Questionnaire/Sample File
*              combined with Final/Replicated Weights file - FORM A
*              where  yy = Year
*                      c = Child
*                      n = Final Dataset Suffix/Version Number
*
* 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
*************************************************************************
;
LIBNAME IN      V612 "..\..\DATA\CFINAL";
LIBNAME OUT     V612 "..\..\DATA\CFINAL";
LIBNAME LIBRARY V612 "..\..\DATA\CFINAL\FMTLIB";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

%MACRO PROCESS(DSNI_1=,DSNI_2=,DSNO=);
************************************************************************
* Merge the final weights file with the final Questionnaire/Sample file
************************************************************************;
PROC SORT DATA=IN.&DSNI_1 OUT=&DSNI_1; BY MPRID; RUN;
PROC SORT DATA=IN.&DSNI_2 OUT=&DSNI_2; BY MPRID; RUN;

DATA OUT.&DSNO(DROP=ENRID);
   MERGE &DSNI_2(IN=IN2 DROP=MIQCNTL)
         &DSNI_1(IN=IN1 KEEP=MPRID BWT ADJWT POP WRWT WRWT1-WRWT60);
   BY MPRID;
   IF FNSTATUS = 11;
   IF IN1 AND IN2;
   IF NOT (IN1 AND IN2) THEN PUT "ERROR: NO MATCHING MPRID WITH &DSNI_1..SD2 AND &DSNI_2..SD2";
   LABEL KEYCOUNT = "# of Key Questions Answered";
   LABEL WRWT     = "Final Weight";
RUN;


TITLE1 "DOD Quarterly Health Care Survey (6077-210)";
TITLE2 "Program Name: ADDWGTS.SAS By Keith Rathbun";
TITLE3 "Program Inputs: &DSNI_1..SD2 -- &DSNI_2..SD2";
TITLE4 "Program Outputs: &DSNO..SD2";
PROC CONTENTS; RUN;

%MEND PROCESS;

%PROCESS(DSNI_1=REPWT, DSNI_2=MERGEC, DSNO=HCS07C_1);
```

F.18 WEIGHTING\PROCCOPC.SAS - CREATE XPORT VERSION FROM DATABASE.

```
***************************************************************************
*
* PROGRAM: PROCCOPA.SAS
* PURPOSE: Create XPORT file from SD2
* WRITTEN  April 26, 2000 BY Keith Rathbun
* TASK:    2007 Quarterly DoD Database Development (6244-300)
*
* INPUTS:  1) HCSyyq_v.SD2 - DoD Quarterly HCSDB for Adults dataset
*
* OUTPUTS: 1) HCSyyq_v.XPT - DoD Quarterly HCSDB for Adults dataset (XPORT)
*             where yy = 2-digit year
*                    q = Quarter Number
*                    v = Version Number
*
* NOTES:   1) Be sure to update the global parameters for the current
*             quarter (QTR) with the appropriate dataset name (DSN)
*             prior to running this program.
*
***************************************************************************
* Define global parameters
***************************************************************************;
%LET DSN = HCS07C_1;
%LET QTR = ..\..\..\Q4FY2007\;
***************************************************************************
* Define SAS libraries and options
***************************************************************************;
LIBNAME IN V612 "&QTR.DATA\CFINAL";
***************************************************************************
* Define SAS Transport file
***************************************************************************;
LIBNAME OUT XPORT "&QTR.DATA\CFINAL\&DSN..XPT";
***************************************************************************
* Generate SAS Transport file
***************************************************************************;
PROC COPY IN=IN  OUT=OUT ; * Converts input file to transport file;
          SELECT &DSN;     * Selects SD2 file to copy;
RUN;
```

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APPENDIX G

SAS CODE FOR STATISTICAL AND WEB SPECIFICATIONS FOR 2007 TRICARE BENEFICIARY REPORTS

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G.1 REPORTCARDS\CAHPS_CHILDQ4FY2007\STEP1C.SAS - CREATE AND RECODE VARIABLES USED IN CHILD BENEFICIARY REPORTS.

```
***************************************************************************
*
*  PROJECT:  DoD - Annual Child Report Cards
*  PROGRAM:  STEP1C.SAS
*  PURPOSE:  Create Dummy and Recode Variables used in Child Report Card
*                  Create a Female dummy variable
*                  Create an Education dummy variable
*                  Create 3 super region dummy variables.
*                  Create 3 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 = 1  AND C07004=4) THEN GROUP1 = 1;
*                  IF (XENR_PCM = 1  AND C07004=4) THEN GROUP2 = 1;
*                  IF (XENR_PCM = 2  AND C07004=4) THEN GROUP3 = 1;
*                  IF XINS_COV IN (2,3)            THEN GROUP4 = 1;
*                  IF AGEUND6  = 1                 THEN GROUP5 = 1;
*                  IF AGE0612  = 1                 THEN GROUP6 = 1;
*                  IF AGE1317  = 1                 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 for 3rd quarter
*               2000 child report cards.
*            3) October 2002 By Mike Scott, Updated for 3rd quarter
*               2002 child report cards.
*            4) September 2003 By Keith Rathbun, Updated for 3rd quarter
*               2003 child report cards.
*            5) November 2003 By Mike Scott, Added V612 to LIBNAME statements.
*               Pointed to CONVERT.SAS on DOD computer instead of J:, updated
*               for 3rd quarter 2003 child report cards.
*            6) October 2005 By Regina Gramss, replaced Claims Processing to
*               Getting Treatment, added Involving Parents
*            7) December 2005 By Regina Gramss, updated field names for 2005.
*            8) September 2006 By Justin Oh, updated field names for 2006.
*            9) October 2007 By Keith Rathbun, updated field names for 2007.
*
*  INPUTS:   1) HCS07C_1.SD2 - DoD HCS Database
*
*  OUTPUTS:  1) GROUP1-8.SD2 - DoD 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
*
***************************************************************************;
OPTIONS NOCENTER LS=124 PS=74 SOURCE SOURCE2 NOFMTERR NOOVP COMPRESS=YES;
LIBNAME OUT V612 "DATA";
LIBNAME IN1 V612 "..\..\..\DATA\CFINAL";

TITLE1    'Program Saved as: STEP1C.SAS';

DATA ENTIRE;
   SET IN1.HCS07C_1(KEEP=
                 MPRID
                 DAGEQY
                 FIELDAGE
                 XTNEXREG
                 CONUS
                 ENBGSMPL
                 C07004  /* Child enrollment in health plan*/
                 C07091  /* Parent Education Level         */
```

```
                C07086  /* Childs Sex Reported by Parent  */
                SEXSMPL /* Childs Sex from DEERS file     */
                XBNFGRP
                STRATUM
                POSTSTR
                XINS_COV
                XENR_PCM
                WRWT
                /* Getting Needed Care */
                C07009
                C07015
                C07032
                C07033
                C07034
                /* Getting Care Quickly */
                C07024
                C07028
                C07026
                C07035
                /* How Well Doctors Communicate */
                C07038
                C07039
                C07040
                C07042
                C07043
                /* Courteous and Helpful Office Staff */
                C07036
                C07037
                /* Customer Service */
                C07054
                C07056
                C07058
                       /****************************/
                C07007 /* Personal Doctor Rating    */
                C07050 /* Health Care Rating        */
                C07017 /* Specialist Rating         */
                C07059 /* Health Plan Rating        */
                C07089 /* Parent's Age              */
                C07064 /* Health Status             */
                       /****************************/
                /* Involving Parents */
                C07045
                C07046
                C07047
                C07049
               );
    FORMAT _ALL_;
    IF 1 <= XTNEXREG <= 3 AND FIELDAGE < 18 AND FIELDAGE NE .;
    ********************************************************************
    * For now (8-24-2001) the plan is NOT to limit the subset to TRICARE;
    * IF XINS_COV NOT IN(1,2,3,6) THEN DELETE;
    ******************************************************************;
                        /* Note:  use tmp_cell in step2c.sas */
    LENGTH TMP_CELL 8;
    TMP_CELL = POSTSTR;
RUN;

*************************************************************************
* Create AGE, FEMALE and GROUP (Beneficiary/Enrollment)
* subsets. Create the region dummies.
*************************************************************************;
DATA ENTIRE;
   SET ENTIRE;
   LENGTH DEFAULT = 4;
   ********************************************************************
   * Create child AGE dummies using MPR-calculated child AGE at
   * start of fielding period.
   ******************************************************************;
   IF FIELDAGE NE "  " THEN DO;
      AGEUND6 = 0;
      AGE0612 = 0;
      AGE1317 = 0;

      IF      (FIELDAGE < 6)         THEN AGEUND6 = 1;
```

```
   ELSE IF (6  <= FIELDAGE <= 12) THEN AGE0612 = 1;
   ELSE IF (13 <= FIELDAGE <= 17) THEN AGE1317 = 1;
END;

************************************************************************
* Create parent AGE dummies using item response.  These dummy variables
* will be used to adjust the scores based on the parents age.
************************************************************************;
IF 1 <= C07089 <= 8 THEN DO;
   AGEUND18 = 0; AGE1824 = 0; AGE2534 = 0; AGE3544 = 0;
   AGE4554  = 0; AGE5564 = 0; AGE6574 = 0; AGE75UP = 0;
   IF      C07089 = 1 THEN AGEUND18 = 1;
   ELSE IF C07089 = 2 THEN AGE1824  = 1;
   ELSE IF C07089 = 3 THEN AGE2534  = 1;
   ELSE IF C07089 = 4 THEN AGE3544  = 1;
   ELSE IF C07089 = 5 THEN AGE4554  = 1;
   ELSE IF C07089 = 6 THEN AGE5564  = 1;
   ELSE IF C07089 = 7 THEN AGE6574  = 1;
   ELSE IF C07089 = 8 THEN AGE75UP  = 1;
END;

***********************************************************************
* Create the FEMALE dummy variable based on childs sex reported by parent.
***********************************************************************;
IF C07086 = 2 OR SEXSMPL = 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 (XINS_COV = 1  AND C07004=4) THEN GROUP1 = 1;
IF (XENR_PCM = 1  AND C07004=4) THEN GROUP2 = 1;
IF (XENR_PCM = 2  AND C07004=4) THEN GROUP3 = 1;
IF XINS_COV IN (2,3)            THEN GROUP4 = 1;
IF AGEUND6  = 1                 THEN GROUP5 = 1;
IF AGE0612  = 1                 THEN GROUP6 = 1;
IF AGE1317  = 1                 THEN GROUP7 = 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      C07024 = 1 THEN R07024 = 1;
ELSE IF C07024 = 2 THEN R07024 = 1;
ELSE IF C07024 = 3 THEN R07024 = 2;
ELSE IF C07024 = 4 THEN R07024 = 3;
ELSE IF C07024 < 0 THEN R07024 = .;

IF      C07028 = 1 THEN R07028 = 1;
ELSE IF C07028 = 2 THEN R07028 = 1;
ELSE IF C07028 = 3 THEN R07028 = 2;
ELSE IF C07028 = 4 THEN R07028 = 3;
ELSE IF C07028 < 0 THEN R07028 = .;

IF      C07026 = 1 THEN R07026 = 1;
ELSE IF C07026 = 2 THEN R07026 = 1;
ELSE IF C07026 = 3 THEN R07026 = 2;
ELSE IF C07026 = 4 THEN R07026 = 3;
ELSE IF C07026 < 0 THEN R07026 = .;

IF      C07035 = 1 THEN R07035 = 1;
```

```
ELSE IF C07035 = 2 THEN R07035 = 1;
ELSE IF C07035 = 3 THEN R07035 = 2;
ELSE IF C07035 = 4 THEN R07035 = 3;
ELSE IF C07035 < 0 THEN R07035 = .;

IF      C07038 = 1 THEN R07038 = 1;
ELSE IF C07038 = 2 THEN R07038 = 1;
ELSE IF C07038 = 3 THEN R07038 = 2;
ELSE IF C07038 = 4 THEN R07038 = 3;
ELSE IF C07038 < 0 THEN R07038 = .;

IF      C07039 = 1 THEN R07039 = 1;
ELSE IF C07039 = 2 THEN R07039 = 1;
ELSE IF C07039 = 3 THEN R07039 = 2;
ELSE IF C07039 = 4 THEN R07039 = 3;
ELSE IF C07039 < 0 THEN R07039 = .;

IF      C07040 = 1 THEN R07040 = 1;
ELSE IF C07040 = 2 THEN R07040 = 1;
ELSE IF C07040 = 3 THEN R07040 = 2;
ELSE IF C07040 = 4 THEN R07040 = 3;
ELSE IF C07040 < 0 THEN R07040 = .;

IF      C07042 = 1 THEN R07042 = 1;
ELSE IF C07042 = 2 THEN R07042 = 1;
ELSE IF C07042 = 3 THEN R07042 = 2;
ELSE IF C07042 = 4 THEN R07042 = 3;
ELSE IF C07042 < 0 THEN R07042 = .;

IF      C07043 = 1 THEN R07043 = 1;
ELSE IF C07043 = 2 THEN R07043 = 1;
ELSE IF C07043 = 3 THEN R07043 = 2;
ELSE IF C07043 = 4 THEN R07043 = 3;
ELSE IF C07043 < 0 THEN R07043 = .;

IF      C07036 = 1 THEN R07036 = 1;
ELSE IF C07036 = 2 THEN R07036 = 1;
ELSE IF C07036 = 3 THEN R07036 = 2;
ELSE IF C07036 = 4 THEN R07036 = 3;
ELSE IF C07036 < 0 THEN R07036 = .;

IF      C07037 = 1 THEN R07037 = 1;
ELSE IF C07037 = 2 THEN R07037 = 1;
ELSE IF C07037 = 3 THEN R07037 = 2;
ELSE IF C07037 = 4 THEN R07037 = 3;
ELSE IF C07037 < 0 THEN R07037 = .;

IF      C07045 = 1 THEN R07045 = 1;
ELSE IF C07045 = 2 THEN R07045 = 1;
ELSE IF C07045 = 3 THEN R07045 = 2;
ELSE IF C07045 = 4 THEN R07045 = 3;
ELSE IF C07045 < 0 THEN R07045 = .;

IF      C07046 = 1 THEN R07046 = 1;
ELSE IF C07046 = 2 THEN R07046 = 1;
ELSE IF C07046 = 3 THEN R07046 = 2;
ELSE IF C07046 = 4 THEN R07046 = 3;
ELSE IF C07046 < 0 THEN R07046 = .;

IF      C07047 = 1 THEN R07047 = 1;
ELSE IF C07047 = 2 THEN R07047 = 1;
ELSE IF C07047 = 3 THEN R07047 = 2;
ELSE IF C07047 = 4 THEN R07047 = 3;
ELSE IF C07047 < 0 THEN R07047 = .;

IF      C07049 = 1 THEN R07049 = 1;
ELSE IF C07049 = 2 THEN R07049 = 1;
ELSE IF C07049 = 3 THEN R07049 = 2;
ELSE IF C07049 = 4 THEN R07049 = 3;
ELSE IF C07049 < 0 THEN R07049 = .;

*-------------------------------------------------------------;
* Recode childs health status
*-------------------------------------------------------------;
```

```
   R07064  =  C07064;  IF R07064 < 0 THEN R07064 = .;

   *-----------------------------------------------------------;
   * Recode B/S/N variables to one missing condition ".";
   *-----------------------------------------------------------;
   IF C07033 = 2 THEN C07034=3;
   R07009  =  C07009;  IF R07009 < 0 THEN R07009 = .;
   R07015  =  C07015;  IF R07015 < 0 THEN R07015 = .;
   R07032  =  C07032;  IF R07032 < 0 THEN R07032 = .;
   R07034  =  C07034;  IF R07034 < 0 THEN R07034 = .;
   R07054  =  C07054;  IF R07054 < 0 THEN R07054 = .;
   R07056  =  C07056;  IF R07056 < 0 THEN R07056 = .;
   R07058  =  C07058;  IF R07058 < 0 THEN R07058 = .;

   *-----------------------------------------------------------;
   * Recode the CAHPS rating variables.
   *-----------------------------------------------------------;
   R07050  =  C07050;  IF R07050  < 0 THEN R07050 = .; *Health Care;
   R07007  =  C07007;  IF R07007  < 0 THEN R07007 = .; *Personal Doctor;
   R07059  =  C07059;  IF R07059  < 0 THEN R07059 = .; *Health Plan;
   R07017  =  C07017;  IF R07017  < 0 THEN R07017 = .; *Specialty Care;

   ***********************************************************************
   * Create super region dummies.
   ***********************************************************************;
   IF XTNEXREG NE . THEN DO;
      ARRAY REGDUMS (3) REG01 REG02 REG03;
      DO I = 1 TO DIM(REGDUMS);
         REGDUMS(I)=0;
      END;

      IF       XTNEXREG = 1  THEN REG01 = 1;
      ELSE IF  XTNEXREG = 2  THEN REG02 = 1;
      ELSE IF  XTNEXREG = 3  THEN REG03 = 1;
   END;
RUN;

***************************************************************************
* Recode item responses to proportional values using CONVERT.SAS.
***************************************************************************;
%INCLUDE "CONVERT.SAS";

%CONT1(DSN=ENTIRE, NUM=7,  Y=R07009 R07015 R07032 R07034
                            R07054 R07056 R07058);

%CONT2(DSN=ENTIRE, NUM=4,  Y=R07050 R07059 R07007 R07017);

%CONT3(DSN=ENTIRE, NUM=15, Y=R07024 R07028 R07026 R07035
                            R07038 R07039 R07040 R07042
                            R07043 R07036 R07037
                            R07045 R07046 R07047 R07049);

***************************************************************************
* 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 key information.
***************************************************************************;
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print some of the key information';
   VAR MPRID
       DAGEQY
       FIELDAGE
       XTNEXREG
       CONUS
```

```
       ENBGSMPL
       C07091  /* Parent Education Level         */
       C07086  /* Childs Sex Reported by Parent  */
       SEXSMPL /* Childs Sex from DEERS file     */
       STRATUM
       POSTSTR
       XINS_COV
       XENR_PCM
       WRWT
      ;
RUN;

*************************************************************************
* Print AGE and SEX dummy variables.
*************************************************************************;
PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of AGE, SEX and GROUP dummies';
   VAR DAGEQY   /* Childs Age Group */
       FIELDAGE /* Childs Age at start of fielding period */
       AGEUND6
       AGE0612
       AGE1317

       C07089   /* Parents Age Group used for adjustment purposes */
       AGEUND18
       AGE1824
       AGE2534
       AGE3544
       AGE4554
       AGE5564
       AGE6574
       AGE75UP

       C07086
       FEMALE
       SEXSMPL

       ENBGSMPL
       XINS_COV
       XENR_PCM
       XBNFGRP
       GROUP1
       GROUP2
       GROUP3
       GROUP4
       GROUP5
       GROUP6
       GROUP7
      ;
RUN;

PROC PRINT DATA=ENTIRE(OBS=60);
   TITLE2 'Print of recoded REGION variables';
   VAR REG01
       REG02
       REG03
      ;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of Childs Age Group variables';
   TABLES FIELDAGE*(AGEUND6 AGE0612 AGE1317)
         /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of Parents Age Group variables used for adjustment purposes';
   TABLES
   C07089*(AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE5564 AGE6574 AGE75UP)
        /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: Getting Needed Care';
```

```
   TABLES C07009*R07009
          C07015*R07015
          C07032*R07032
          C07034*R07034
         /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: Getting Care Quickly';
   TABLES C07024*R07024
          C07028*R07028
          C07026*R07026
          C07035*R07035
         /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: How Well Doctors Communicate';
   TABLES C07038*R07038
          C07039*R07039
          C07040*R07040
          C07042*R07042
          C07043*R07043
         /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: Courteous and Helpful Office Staff';
   TABLES C07036*R07036
          C07037*R07037
         /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: Customer Service';
   TABLES C07054*R07054
          C07056*R07056
          C07058*R07058
         /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: Ratings';
   TABLES C07050*R07050
          C07059*R07059
          C07007*R07007
          C07017*R07017
         /MISSING LIST;
RUN;


PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: Involving Parents';
   TABLES C07045*R07045
          C07046*R07046
          C07047*R07047
          C07049*R07049
         /MISSING LIST;
RUN;

PROC FREQ DATA=ENTIRE;
   TITLE2 'FREQ of recoded question variables: health status';
   TABLES C07064*R07064
         /MISSING LIST;
RUN;
*****************************************************************************
* Create the 7 subgroups for processing by STEP2C.SAS.
*****************************************************************************;
DATA OUT.GROUP1
     OUT.GROUP2
     OUT.GROUP3
     OUT.GROUP4
     OUT.GROUP5
     OUT.GROUP6
```

```
     OUT.GROUP7
     OUT.GROUP8;

     SET ENTIRE;

     DROP C07009
          C07015
          C07032
          C07034
          C07024
          C07028
          C07026
          C07035
          C07038
          C07039
          C07040
          C07042
          C07043
          C07036
          C07037
          C07054
          C07056
          C07058
          C07050
          C07059
          C07007
          C07017
          C07045
          C07046
          C07047
          C07049
          C07064
        ;
      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.2 REPORTCARDS\CAHPS_CHILDQ4FY2007\CONVERT.SAS - INCLUDE FILE. 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)
* 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 &num;
      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 &num;
      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 &num;
      if vars(i) ne . and vars(i) >= 2 then vars(i) = 2;
      vars(i) = vars(i) - 1;
   end;
run;
%mend cont3;
```

G.3 REPORTCARDS\CAHPS_CHILDQ4FY2007\STEP2C.SAS - CALCULATE CAHPS ADJUSTED SCORES.

```
/*****************************************************************
/*  Project:  DoD - Annual Child Report Cards
/*  Program:  STEP2C.SAS
/*  Purpose:  Annual Child Report Cards
/*  Requires program STEP1C.SAS to have been run
/*
/*  Modified: 1) August 2001 By Keith Rathbun, Updated for Q3 2000
/*               Child Report Cards.
/*            2) October 2002 By Mike Scott, Updated for Q3 2002
/*               Child Report Cards.  Changed INTERCEP to INTERCEPT.
/*               Added V612 to LIBNAME statements.
/*            3) September 2003 By Keith Rathbun, Updated for Q3 2003
/*               Child Report Cards.
/*            4) October 2005 By Regina Gramss, Deleted Claims Processing,
/*               Included Getting Treatment, and Involving Parents.
/*            5) December 2005 By Regina Gramss, Updated field names
/*               for 2005.
/*            6) January 2006 By Regina Gramss, included 2 additional
/*               independent variable of child age (6-12, 13-17).
/*            7) September 2006 By Justin Oh, Updated field names
/*               for 2006.
/*            8) October 2007 By Keith Rathbun, Updated field names
/*               for 2007.
/*
/*  Programming specifications for Child report card
/*  The Child 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
/*
/* SUBGROUPS
/* ____________________________________________________________________________
/*    Seven subgroups          Definitions
/* ____________________________________________________________________________
/* 1. Prime enrollees          XINS_COV = 1  AND C07004=4
/* 2. Enrollees w/mil PCM      XENR_PCM = 1  AND C07004=4
/* 3. Enrollees w/civ PCM      XENR_PCM = 2  AND C07004=4
/* 4. Nonenrollees             XINS_COV IN (2,3)
/* 5. Under Age 6              AGEUND6  = 1
/* 6. 6-12 Years               AGE0612  = 1
/* 7. 13-17 Years              AGE1317  = 1
/*
/*  PREV PGM:  STEP1C.SAS
/*****************************************************************/
OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP COMPRESS=NO;
*OPTIONS NOCENTER LS=132 PS=78 SOURCE NOOVP MPRINT MLOGIC SYMBOLGEN STIMER;
LIBNAME  IN1   V612  "DATA";
LIBNAME  OUT   V612  "DATA";
LIBNAME  OUT2  V612  "DATA\CHILDHATFILES";

*-------------------------------------;
*-       set the parameters here      -;
*-------------------------------------;
DATA SKELREG;
   INPUT XTNEXREG;
   DATALINES;
      1
      2
      3
;
RUN;
```

```
* 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 = 26;

* set the number of subgroups to process;
%LET MIN_GRP = 1;
%LET MAX_GRP = 8;

* I expect these to remain the same for;
* a particular dependent variable run;
%LET WGT      = WRWT;
%LET IND_VAR1 = R07064;   *HEALTH STATUS;
%LET IND_VAR2 = AGE0612;  *CHILD AGE BETWEEN 6-12 / RSG added 01/23/2006;
%LET IND_VAR3 = AGE1317;  *CHILD AGE BETWEEN 13-17 / RSG added 01/23/2006;
%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 = Under Age 6;
%LET TITL6 = Age 6-12;
%LET TITL7 = Age 13-17;
%LET TITL8 = All major groups;

%* GETTING NEEDED CARE;
%LET DEPVAR1 = R07009;
%LET DEPVAR2 = R07015;
%LET DEPVAR3 = R07032;
%LET DEPVAR4 = R07034;

%* GETTING CARE QUICKLY;
%LET DEPVAR5 = R07024;
%LET DEPVAR6 = R07028;
%LET DEPVAR7 = R07026;
%LET DEPVAR8 = R07035;

%* HOW WELL DOCTORS COMMUNICATE;
%LET DEPVAR9  = R07038;
%LET DEPVAR10 = R07039;
%LET DEPVAR11 = R07040;
%LET DEPVAR12 = R07042;
%LET DEPVAR13 = R07043;

%* COURTEOUS AND HELPFUL OFFICE STAFF;
%LET DEPVAR14 = R07036;
%LET DEPVAR15 = R07037;

%* CUSTOMER SERVICE;
%LET DEPVAR16 = R07054;
%LET DEPVAR17 = R07056;
%LET DEPVAR18 = R07058;

%* INVOLVING PARENTS;
%LET DEPVAR19 = R07045;
%LET DEPVAR20 = R07046;
%LET DEPVAR21 = R07047;
%LET DEPVAR22 = R07049;

%* RATING ALL HEALTH CARE: 0 - 10;
%LET DEPVAR23 = R07050;

%* RATING OF HEALTH PLAN: 0 - 10;
%LET DEPVAR24 = R07059;

%* RATING OF PERSONAL DR: 0 - 10;
%LET DEPVAR25 = R07007;

%* RATING OF SPECIALIST: 0 - 10;
%LET DEPVAR26 = R07017;

%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;
%PUT "WGT      = " &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 XTNEXREG &&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 XTNEXREG &&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;
%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) );
    END;
```

```
    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=XTNEXREG NEWADJST);
    SET ADJUST;
    %INCLUDE 'REGARRAY.INC';
    LENGTH NAME $8;
    DO I=1 TO DIM(REGRHS);
       CALL VNAME(REGRHS(I),NAME);
       XTNEXREG=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 XTNEXREG;
  VAR   &WGT;
  OUTPUT OUT=REG_WGTS (DROP = _TYPE_ _FREQ_) N=REGCNT&IGRP SUM=REGWGT&IGRP;
RUN;


* 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=XTNEXREG REGCNT&IGRP REGWGT&IGRP);
      BY XTNEXREG;
      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";
    RUN;

    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  XTNEXREG;
```

```
  VAR    NEWADJST;
  OUTPUT OUT=REGFILE1 (DROP = _TYPE_ _FREQ_) MEAN=ADJ&IGRP;
RUN;


%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 XTNEXREG)
           REGFILE1(KEEP = ADJ&IGRP XTNEXREG);
     BY XTNEXREG;
     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 XTNEXREG;
    DEPENDNT = "&&DEPVAR&IVAR";
    IF INS;
RUN;

PROC PRINT DATA=OUT.R_&&DEPVAR&IVAR;
     TITLE2 "Print of XTNEXREG 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 = .;
  RUN;

 DATA _NULL_;
      SET GROUP&IGRP END = EOF;
      IF &&DEPVAR&IVAR NOT = .;

      ARRAY AGECNT(8) 8 aCNT1 - aCNT8;
      RETAIN AGECNT 0;
      RETAIN CNT 0;
      ARRAY AGENAM(8)  $8 AGENAM1 - AGENAM8;
      ARRAY AGENAMX(8) $8 AGENAMX1 - AGENAMX8;
      RETAIN AGENAM;
      RETAIN AGENAMX;
```

```
      ARRAY REGCNT(3)   8 REGCNT01 - REGCNT3;
      RETAIN CATCNT 0;
      RETAIN REGCNT 0;

      * create a name array for the parent age dummies;
      IF _N_ = 1 THEN DO;
         AGENAM(1) = "AGEUND18";
         AGENAM(2) = "AGE1824";
         AGENAM(3) = "AGE2534";
         AGENAM(4) = "AGE3544";
         AGENAM(5) = "AGE4554";
         AGENAM(6) = "AGE5564";
         AGENAM(7) = "AGE6574";
         AGENAM(8) = "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 AGEUND18 = 1 THEN AGECNT(1) + 1;
      IF AGE1824  = 1 THEN AGECNT(2) + 1;
      IF AGE2534  = 1 THEN AGECNT(3) + 1;
      IF AGE3544  = 1 THEN AGECNT(4) + 1;
      IF AGE4554  = 1 THEN AGECNT(5) + 1;
      IF AGE5564  = 1 THEN AGECNT(6) + 1;
      IF AGE6574  = 1 THEN AGECNT(7) + 1;
      IF AGE75UP  = 1 THEN AGECNT(8) + 1;

      * count records in each SUPREG group;
      * we will only use SUPER 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 1<= XTNEXREG <= 3  THEN DO;
         REGCNT(XTNEXREG) = REGCNT(XTNEXREG) + 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(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 AGENAM(8) "  " AGECNT(8)=;
        PUT " ";

        DO I = 1 TO 3;
           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 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 8;
   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;
DO I = 1 TO 3;   * 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);
END;

* 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;
*   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 TO 3;
        IF REGCNT(I) > 0 THEN DO; *** ems 7/12/00 changed "> 1" to "> 0";
           PUT  @16 'REG' I Z2.;
        END;
     END;
     PUT @11 ';';
 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;


%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;
```

```
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;

%MEND MAKE_INC;

%MACRO R_SUDAAN(INFILE);
*****************************************************;
* use this macro to create standard err (variances);
* FOR: REGIONS                                      ;
*****************************************************;
%PUT ****************************************;
%PUT STARTING MACRO R_SUDAAN (XTNEXREG);
%PUT ****************************************;

DATA &INFILE;
   SET &INFILE;
   IF 1<= XTNEXREG <=3;
RUN;

* Sort data by STRATUM;
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 (SUPER REGION)';
        TITLE3 "Beneficiary group&igrp:  &&TITL&IGRP";
   RUN;
%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 XTNEXREG;
   SUBGROUP XTNEXREG;
   LEVELS 3;
   OUTPUT  SEMEAN
         / TABLECELL=DEFAULT REPLACE
           FILENAME=RS&DEP;
   RUN;

   DATA R&IGRP&&DEPVAR&IVAR;
        SET RS&DEP;
        KEEP XTNEXREG 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;


%***********************************;
%*  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);
```

G.4 REPORTCARDS\CAHPS_CHILDQ4FY2007\RISKVARS.INC - INCLUDE FILE. USED TO CREATE THE MEANS OF THE ADJUSTER VARIABLES.

```
VAR
  AGEUND18
  AGE1824
  AGE2534
  AGE3544
  AGE4554
  AGE5564
  AGE6574
  AGE75UP
  R07064
  AGE0612
  AGE1317
 ;
```

G.5 REPORTCARDS\CAHPS_CHILDQ4FY2007\MEANFILE.INC - INCLUDE FILE. USED TO CREATE THE MEANS OF THE ADJUSTER VARIABLES.

```
OUTPUT OUT=MEANFILE(DROP = _TYPE_) MEAN =
      MEAN01
      MEAN02
      MEAN03
      MEAN04
      MEAN05
      MEAN06
      MEAN07
      MEAN08
      MEAN09
      MEAN10
      MEAN11
     ;
```

G.6 REPORTCARDS\CAHPS_CHILDQ4FY2007\COMPOSIT.SAS - CALCULATE CAHPS COMPOSITE SCORES.

```
/*****************************************************************
/*  Project:  DoD - Annual Child Report Cards
/*  Program:  COMPOSIT.SAS
/*  Purpose:  Annual Child Report Cards
/*  Requires programs STEP1C and STEP2C.SAS
/*
/*  Modified: 1) Keith Rathbun, 07/18/2000: Updated for child survey.
/*               Added processing for 5th dependent variable.  Update
/*               macro calls.
/*            2) Keith Rathbun, 02/27/2001 By Keith Rathbun, Small changes to input DSNs to
/*               accommodate the move of ALLSCORE.SAS functionality into the
/*               STEP2Q.SAS program.
/*            3) Keith Rathbun, 08/24/2001: Updated for Q3 2000 child survey.
/*            4) Mike Scott, 10/30/2002: Updated for Q3 2002 child survey.
/*            5) Keith Rathbun, 09/19/2003: Updated for Q3 2003 child survey.
/*            6) Mike Scott, 11/24/2003: Added V612 to LIBNAME statements.
/*            7) Regina Gramss, 10/14/2005: Deleted Claims Processing,
/*               included Getting Treatment, and Involving Parents.
/*            8) Regina Gramss, 12/30/2005: Updated field names for 2005.
/*              9) Regina Gramss, 01/20/2006: Add in new composite Involve Parents and Special
Needs.
/*            10) Justin Oh, 09/18/2006: Updated field names for 2006.
/*            11) Keith Rathbun, 10/05/2007: Updated field names for 2007.
/*
/*****************************************************************/
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES;
libname in  V612 "data";
libname in2 V612 "data\childhatfiles";
libname out V612 "data";

 %MACRO COMPOSIT (TYPE=,COMPOS=,VAR1=,VAR2=,VAR3=,VAR4=,VAR5=,QCOUNT=);

  DATA _NULL_;
   %IF "&TYPE" = "R" %THEN %DO;
       CALL SYMPUT ('BYVAR','XTNEXREG');
   %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";
     IF "&VAR5" NE '' THEN PUT @8 "IN.&TYPE._&VAR5";
     PUT @8 ';';
 RUN;


 DATA COMPOS&COMPOS;
      LENGTH DEPENDNT $ 8;
      %INCLUDE 'FILES.INC';
      DEPENDNT = "&TYPE.COMPOS&COMPOS";
 RUN;

 PROC SORT DATA=COMPOS&COMPOS;
      BY &BYVAR;
 RUN;

 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;
      ARRAY ADJ(*)    ADJ1 - ADJ8;
      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 &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;
%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;
     %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;

     %if &var5~= %then %do;
     %let n=%str(&n r_&var5);
     data s_&var5(rename=(semean&i=s_&var5));
     set in.&type._&var5(keep=semean&i &byvar);
     proc sort; by &byvar;
     data r_&var5;
     set in2.h&i.&var5(rename=(resid&i=r_&var5));
     %let m=%str(&m s_&var5);
     proc sort data=r_&var5; 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 wrwt;
     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 _name_="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;
      tv+sde;
     if last.&byvar then do;
      if tv >= 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=R07009,var2=R07015,var3=R07032,var4=R07034,qcount=4);
     %COMPOSIT (type=R,compos=2,var1=R07024,var2=R07028,var3=R07026,var4=R07035,qcount=4);
     %COMPOSIT
(type=R,compos=3,var1=R07038,var2=R07039,var3=R07040,var4=R07042,var5=R07043,qcount=5);
     %COMPOSIT (type=R,compos=4,var1=R07036,var2=R07037,qcount=2);
     %COMPOSIT (type=R,compos=5,var1=R07054,var2=R07056,var3=R07058,qcount=3);
     %COMPOSIT (type=R,compos=6,var1=R07045,var2=R07046,var3=R07047,var4=R07049,qcount=4);
```

G.7 LOADWEB\CAHPS_CHILDQ4FY2007\LOADCAHC.SAS - CONVERT CAHPS SCORES INTO WEB LAYOUT.

```
***************************************************************************
*
* PROGRAM:  LOADCAHC.SAS
* TASK:     2007 DOD HEALTH CARE SURVEY REPORT CARDS (6244-410)
* PURPOSE:  Convert the CAHPS Scores Database into the WEB layout
*
* WRITTEN:  07/14/2000 BY KEITH RATHBUN
*
* MODIFIED:
*
* 1) 08/24/2001 BY KEITH RATHBUN to support the Q3 2000 child report cards.
* 2) 10/30/2002 BY MIKE SCOTT to support the Q3 2002 child report cards.
* 3) 09/18/2003 BY KEITH RATHBUN to support the Q3 2003 child report cards
* 4) 01/09/2005 BY REGINA GRAMSS to support Q3 2004 child report cards
* 5) 01/20/2005 BY REGINA GRAMSS to support Q3 2005 child report cards, add
*    in new composite scores.
* 6) 09/18/2006 BY JUSTIN OH to support Q3 FY2006 child report cards.
* 7) 10/09/2007 BY KEITH RATHBUN to support Q4 FY2007 child report cards
*
* INPUTS:   1) CAHPS Individual and Composite data sets with adjusted scores
*
* OUTPUT:   1) LOADCAHC.SD2 - Combined CAHPS Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHC.INC - Format definitions for CAHPS Individual
*              and composite data sets
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - STEP1C.SAS - Recode questions and generate group files
*    - STEP2C.SAS - Calculate individual adjusted scores for group 1-7
*    - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*
* 2) The output file (LOADCAHC.SD2) will be run through the
*    MAKEHTMC.SAS program to generate the WEB pages.
*
* 3) This program is a modified version of LOADCAHP.SAS adapted to meet
*    the requirements of the child report card.
*
***************************************************************************
* Assign data libraries and options
***************************************************************************;
LIBNAME IN      V612 "..\..\ReportCards\CAHPS_ChildQ4FY2007\Data";
LIBNAME OUT     V612 "DATA";
LIBNAME LIBRARY V612 "..\..\..\DATA\CFINAL\FMTLIB";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

***************************************************************************
* Load Format definitions for CAHPS Individual and composite data sets.
***************************************************************************;
%INCLUDE "..\LOADCAHC.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 = "2007";

*************************************************************************
* Assign prefix for weighted/unweighted count variables.
* Unweighted counts are REGCNTn or CATCNTn where n=group number.
* Weighted counts are REGWGTn or CATWGTn 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:
*
* ____________________________________________________________
*    Adjusted Score           Definitions
*    Group Number
* ____________________________________________________________
* 1. Prime enrollees          XINS_COV = 1  AND C06003=4
* 2. Enrollees w/mil PCM      XENR_PCM = 1  AND C06003=4
* 3. Enrollees w/civ PCM      XENR_PCM = 2  AND C06003=4
* 4. Nonenrollees             XINS_COV IN (2,3)
* 5. Under Age 6              AGEUND6  = 1
* 6. 6-12 Years               AGE0612  = 1
* 7. 13-17 Years              AGE1317  = 1
*
*************************************************************************;
DATA &QUESTION;
   SET IN.&QUESTION;

   LENGTH MAJGRP  $30;
   LENGTH REGION   $25; **RSG 01/2005 - Changed format to be large enough to include service
affiliation;
   LENGTH REGCAT  $26;
   LENGTH BENTYPE $50;
   LENGTH BENEFIT $34;
   LENGTH TIMEPD  $35; **MJS 07/03/03 Added line;

   ********************************************************************
   * Assign Region
   ********************************************************************;
   REGION  = PUT(XTNEXREG,REGIONF.);

   ********************************************************************
   * For now, Initialize Significance test to zero.
   ********************************************************************;
   SIG = 0;

   ********************************************************************
   * Assign benefit and benefit type
   ********************************************************************;
   IF "&TYPE" = "INDIVIDUAL" THEN DO;
      IF DEPENDNT IN("R07050","R07007","R07059","R07017") THEN
         BENTYPE = "Composite";
      ELSE
         BENTYPE = PUT(DEPENDNT,$BENTYPF.);
      BENEFIT = PUT(DEPENDNT,$BENEF.);
      TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added line;
   END;
   ELSE IF "&TYPE" = "COMPOSITE" THEN DO;
      BENTYPE = "Composite";
      BENEFIT = PUT(DEPENDNT,$BENEF.);
      TIMEPD = PUT(&YEAR,$BENTYPF.);   ***MJS 07/03/03 Added line;

   END;
   ELSE PUT "ERROR: Invalid TYPE = &TYPE";

   ********************************************************************
   * Assign Region
   ********************************************************************;
   REGCAT = PUT(XTNEXREG,REGIONF.);

   ********************************************************************
   * 1 = Prime Enrollees
```

```
*******************************************************************;
MAJGRP = PUT(1,ROWCATF.);
SCORE = ADJ1;
SEMEAN = SEMEAN1;
N_OBS = &PREFIX.CNT1;
N_WGT = &PREFIX.WGT1;
OUTPUT;
*******************************************************************
* 2 = Enrollees with Military PCM
*******************************************************************;
MAJGRP = PUT(2,ROWCATF.);
SCORE = ADJ2;
SEMEAN = SEMEAN2;
N_OBS = &PREFIX.CNT2;
N_WGT = &PREFIX.WGT2;
OUTPUT;
*******************************************************************
* 3 = Enrollees with Civilian PCM
*******************************************************************;
MAJGRP = PUT(3,ROWCATF.);
SCORE = ADJ3;
SEMEAN = SEMEAN3;
N_OBS = &PREFIX.CNT3;
N_WGT = &PREFIX.WGT3;
OUTPUT;

*******************************************************************
* 4 = Non-enrolled Beneficiaries
*******************************************************************;
MAJGRP = PUT(4,ROWCATF.);
SCORE = ADJ4;
SEMEAN = SEMEAN4;
N_OBS = &PREFIX.CNT4;
N_WGT = &PREFIX.WGT4;
OUTPUT;

*******************************************************************
* 5 = Under Age 6
*******************************************************************;
MAJGRP = PUT(5,ROWCATF.);
SCORE = ADJ5;
SEMEAN = SEMEAN5;
N_OBS = &PREFIX.CNT5;
N_WGT = &PREFIX.WGT5;
OUTPUT;

*******************************************************************
* 6 = Age 6-12
*******************************************************************;
MAJGRP = PUT(6,ROWCATF.);
SCORE = ADJ6;
SEMEAN = SEMEAN6;
N_OBS = &PREFIX.CNT6;
N_WGT = &PREFIX.WGT6;
OUTPUT;

*******************************************************************
* 7 = Age 13-17
*******************************************************************;
MAJGRP = PUT(7,ROWCATF.);
SCORE = ADJ7;
SEMEAN = SEMEAN7;
N_OBS = &PREFIX.CNT7;
N_WGT = &PREFIX.WGT7;
OUTPUT;

*******************************************************************
* 8 = CONUS MHS              ALL Beneficiaries
*******************************************************************;
MAJGRP = PUT(8,ROWCATF.);
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_R07009,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07015,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07032,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07034,TYPE=INDIVIDUAL);

*************************************************************************
* COMPOSITE # 2.
* GETTING CARE QUICKLY VARIABLES.
*************************************************************************;
%PROCESS(QUESTION=RCOMPOS2,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R07024,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07028,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07026,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07035,TYPE=INDIVIDUAL);

*************************************************************************
* COMPOSITE # 3.
* HOW WELL DOCTORS COMMUNICATE.
*************************************************************************;
%PROCESS(QUESTION=RCOMPOS3,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R07038,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07039,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07040,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07042,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07043,TYPE=INDIVIDUAL);

*************************************************************************
* COMPOSITE # 4.
* COURTEOUS AND HELPFUL OFFICE STAFF.
*************************************************************************;
%PROCESS(QUESTION=RCOMPOS4,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R07036,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07037,TYPE=INDIVIDUAL);

*************************************************************************
* COMPOSITE # 5.
* CUSTOMER SERVICE.
*************************************************************************;
%PROCESS(QUESTION=RCOMPOS5,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R07054,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07056,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07058,TYPE=INDIVIDUAL);

*************************************************************************
* COMPOSITE # 6.
* INVOLVING PARENTS.
*************************************************************************;
%PROCESS(QUESTION=RCOMPOS6,TYPE=COMPOSITE);
%PROCESS(QUESTION=R_R07045,TYPE=INDIVIDUAL);
```

```
%PROCESS(QUESTION=R_R07046,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07047,TYPE=INDIVIDUAL);
%PROCESS(QUESTION=R_R07049,TYPE=INDIVIDUAL);

***************************************************************************
* INDIVIDUAL # 1.
* RATING OF ALL HEALTH CARE: 0 - 10.
***************************************************************************;
%PROCESS(QUESTION=R_R07050,TYPE=INDIVIDUAL);

***************************************************************************
* INDIVIDUAL # 2.
* RATING OF HEALTH PLAN: 0 - 10.
***************************************************************************;
%PROCESS(QUESTION=R_R07059,TYPE=INDIVIDUAL)

***************************************************************************
* INDIVIDUAL # 3.
* RATING OF PERSONAL DOCTOR: 0 - 10.
***************************************************************************;
%PROCESS(QUESTION=R_R07007,TYPE=INDIVIDUAL);

***************************************************************************
* INDIVIDUAL # 4.
* RATING OF SPECIALIST: 0 - 10.
***************************************************************************;
%PROCESS(QUESTION=R_R07017,TYPE=INDIVIDUAL);

***************************************************************************
***************************************************************************
* STACK up all of the files into one final output dataset.
***************************************************************************
***************************************************************************;
DATA OUT.LOADCAHC;
   SET R_R07009
       R_R07007
       R_R07015
       R_R07017
       R_R07032
       R_R07034
       R_R07024
       R_R07028
       R_R07026
       R_R07035
       R_R07038
       R_R07039
       R_R07040
       R_R07042
       R_R07043
       R_R07050

       R_R07045
       R_R07046
       R_R07047
       R_R07049

       R_R07036
       R_R07037

       R_R07054
       R_R07056
       R_R07058
       R_R07059
       RCOMPOS1
       RCOMPOS2
       RCOMPOS3
       RCOMPOS4
       RCOMPOS5
       RCOMPOS6
    ;
    IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2007 DOD Health Survey Scores/Report Cards (6244-410)";
```

```
TITLE2 "Program Name: LOADCAHC.SAS By Keith Rathbun";
TITLE3 "Program Inputs: CAHPS Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: LOADCAHC.SD2 - Combined CAHPS Scores Database in WEB layout";

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGION TIMEPD
      /MISSING LIST;
RUN;
```

G.8 LOADWEB\LOADCAHC.INC - FORMAT DEFINITIONS FOR CONVERTING THE SCORES DATABASE INTO THE WEB LAYOUT.

```
***************************************************************************
*
* PROGRAM:  LOADCAHC.INC
* TASK:     2007 DOD HEALTH CARE SURVEY REPORT CARDS (6244-410)
* PURPOSE:  Format definitions for converting the CAHPS Scores Database
*           into the WEB layout
*
* WRITTEN:  07/14/2000 BY KEITH RATHBUN
*
* MODIFIED:
*
* 1) 08/24/2001 BY KEITH RATHBUN to support the Q3 2000 child report cards.
* 2) 11/15/2002 BY KEITH RATHBUN, Added parameters for 2002 survey.  Also
*    added BENTYPF = 2001-2005.
* 3) 09/18/2003 BY KEITH RATHBUN, Added parameters for 2003 survey.
* 4) 10/14/2005 BY REGINA GRAMSS, Added Benefit Getting Treatment,
*    and Involving Parents to $BENTYPEF, $BENEF, and $GETTX, $INVRENT
* 5) 09/18/2006 BY JUSTIN OH, Added parameters for Q3 FY2006 survey.
* 6) 09/21/2007 BY KEITH RATHBUN, Added parameters for 2007 survey.  Deleted
*    Special Needs format statements.
*
* INPUTS:   No direct input
*
* OUTPUT:   No direct output
*
***************************************************************************
;
***************************************************************************
* FORMAT Definitions
***************************************************************************;
PROC FORMAT;
   VALUE MAJGRPF
      0 = "All Children"
      1 = "Children in New Regions (1, 2, & 5)"
      2 = "Children in Mature Regions (6, 9-12, & 16)"
      3 = "Children in Other Regions (3, 4, & 7/8)"
   ;
   VALUE ROWCAT2F
      1 = "Benchmark"
      2 = "CONUS MHS"                  /* ALL Beneficiaries           */
      3 = "Prime Enrollees"            /* XINS_COV = 1 AND C07004 = 4 */
      4 = "Enrollees with Military PCM" /* XENR_PCM = 1 AND C07004 = 4 */
      5 = "Enrollees with Civilian PCM" /* XENR_PCM = 2 AND C07004 = 4 */
      6 = "Non-enrolled Beneficiaries"  /* XINS_COV IN (2,3)           */
      7 = "Children Under Age 6"       /* AGEUND6 = 1                 */
      8 = "Children 6-12 Years"        /* AGE0612 = 1                 */
      9 = "Children 13-17 Years"       /* AGE1317 = 1                 */
   ;
   VALUE ROWCATF
      1 = "Prime Enrollees"            /* XINS_COV = 1 AND C07004 = 4 */
      2 = "Enrollees with Military PCM" /* XENR_PCM = 1 AND C07004 = 4 */
      3 = "Enrollees with Civilian PCM" /* XENR_PCM = 2 AND C07004 = 4 */
      4 = "Non-enrolled Beneficiaries"  /* XINS_COV IN (2,3)           */
      5 = "Children Under Age 6"       /* AGEUND6 = 1                 */
      6 = "Children 6-12 Years"        /* AGE0612 = 1                 */
      7 = "Children 13-17 Years"       /* AGE1317 = 1                 */
      8 = "CONUS MHS"                  /* ALL Beneficiaries           */
   ;

   VALUE REGIONF
      0 = "CONUS MHS"
      1 = "North"
      2 = "South"
      3 = "West"
      4 = "Benchmark"
   ;
   VALUE $BENTYPF
    "2000"     = "2000"
    "2001"     = "2001"
    "2002"     = "2002"
```

```
        "2003"     = "2003"
        "2004"     = "2004"
        "2005"     = "2005"
        "2006"     = "2006"
        "2007"     = "2007"
        /*****************************************************************/
        /* Admin. Year Defn.   */
        /* 2001        2002      2003     2004     2005     2006     2007  */
        /*****************************************************************/
        "R00006   ",  "R02006",  "R03006","R04008","R05009","R06009","R07009"  =  "Problems  Getting
Personal Doctor/Nurse"
        "R00014  ", "R02014", "R03019","R04018","R05019","R06019","R07015" = "Problems Getting to
See Specialist"
        "R00031   ",  "R02031",  "R03036","R04031","R05032","R06032","R07032"  =  "Problems  Getting
Necessary Care"
        "R00032  ", "R02032", "R03037","R04033","R05034","R06034","R07034" = "Delays in Care While
Awaiting Approval"
        "R00019    ",  "R02019",  "R03024","R04023","R05024","R06024","R07024"  =  "Advice  over
Telephone"
        "R00021   ",  "R02021",  "R03026","R04027","R05028","R06028","R07028"  =  "Wait  for  Routine
Visit"
        "R00024  ", "R02024", "R03032","R04025","R05026","R06026","R07026" = "Wait for Urgent Care"
        "R00033   ",  "R02033",  "R03038","R04034","R05035","R06035","R07035"  =  "Wait  in  Doctor`s
Office"
        "R00036  ", "R02036", "R03041","R04037","R05038","R06038","R07038" = "Listens Carefully"
        "R00037  ",  "R02037",  "R03042","R04038","R05039","R06039","R07039" = "Explains so you can
Understand"
        "R00038  ", "R02038", "R03043","R04039","R05040","R06040","R07040" = "Shows Respect"
        "R00040   ",  "R02040",  "R03045","R04041","R05042","R06042","R07042"  =  "Explains  so  your
child can Understand"
        "R00041  ", "R02041", "R03046","R04042","R05043","R06043","R07043" = "Spends Time with your
child"
        "R00034    ",  "R02034",  "R03039","R04035","R05036","R06036","R07036"  =  "Courteous  and
Respectful"
        "R00035  ", "R02035", "R03040","R04036","R05037","R06037","R07037" = "Helpful"
        "R00049      ",   "R02049",   "R03077","R04073","R05066","R06066","R07054"   =   "Problem
Finding/Understanding Written Material"
        "R00051  ", "R02051", "R03079","R04075","R05068","R06068","R07056" = "Problem Getting Help
from Customer Service"
        "R00056    ",  "R02056",  "R03084","R04077","R05070","R06070","R07058"  =  "Problem  with
Paperwork"
        "R00045  ", "R02045", "R03073","R04069" = "Claims Handled in a Reasonable Time"
        "R00046  ", "R02046", "R03074" = "Claims Handled Correctly"
        "R00042  ", "R02042", "R03056","R04052","R05050","R06050","R07050" = "Health Care"
        "R00057  ", "R02057", "R03085","R04078","R05071","R06071","R07059" = "Health Plan"
        "R00008   ",  "R02008",  "R03013","R04006","R05007","R06007","R07007"  =  "Personal  Doctor  or
Nurse"
        "R00016  ", "R02016", "R03021","R04020","R05021","R06021","R07017" = "Specialty Care"
                              "R03062","R04058","R05055","R06055"              = "Problems Getting
Special Medical Equipment"
                              "R03065","R04061","R05058","R06058"              = "Problems Getting
Special Therapy"
                              "R03068","R04064","R05061","R06061"              = "Problems Getting
Treatment or Counseling"
                              "R03048","R04044","R05045","R06045","R07045" = "Make Easy To Discuss
Questions"
                              "R03049","R04045","R05046","R06046","R07046"   =   "Get   Information
Needed From Doctor"
                              "R03050","R04046","R05047","R06047","R07047" = "Questions Answered By
Doctor"
                              "R03055","R04051","R05049","R06049","R07049"   =   "Doctor   Involves
Parent In Decision"
       ;
       VALUE $BENEF
        "RCOMPOS1","R00006","R00014","R00031","R00032",
                   "R02006","R02014","R02031","R02032",
                   "R03006","R03019","R03036","R03037",
                   "R04008","R04018","R04031","R04033",
                   "R05009","R05019","R05032","R05034",
                   "R06009","R06019","R06032","R06034",
                   "R07009","R07015","R07032","R07034"
        = "Getting Needed Care"
        "RCOMPOS2","R00019","R00021","R00024","R00033",
                   "R02019","R02021","R02024","R02033",
```

```
                "R03024","R03026","R03032","R03038",
                "R04023","R04027","R04025","R04034",
                "R05024","R05028","R05026","R05035",
                "R06024","R06028","R06026","R06035",
                "R07024","R07028","R07026","R07035"
      = "Getting Care Quickly"
      "RCOMPOS3","R00036","R00037","R00038","R00040","R00041",
                "R02036","R02037","R02038","R02040","R02041",
                "R03041","R03042","R03043","R03045","R03046",
                "R04037","R04038","R04039","R04041","R04042",
                "R05038","R05039","R05040","R05042","R05043",
                "R06038","R06039","R06040","R06042","R06043",
                "R07038","R07039","R07040","R07042","R07043"
      = "How Well Doctors Communicate"
      "RCOMPOS4","R00034","R00035",
                "R02034","R02035",
                "R03039","R03040",
                "R04035","R04036",
                "R05036","R05037",
                "R06036","R06037",
                "R07036","R07037"
      = "Courteous and Helpful Office Staff"
      "RCOMPOS5","R00049","R00051","R00056",
                "R02049","R02051","R02056",
                "R03077","R03079","R03084",
                "R04073","R04075","R04077",
                "R05066","R05068","R05070",
                "R06066","R06068","R06070",
                "R07054","R07056","R07058"
      = "Customer Service"
      "RCOMPOS6","R03048","R03049","R03050","R03055",
                "R04044","R04045","R04046","R04051",
                "R05045","R05046","R05047","R05049",
                "R06045","R06046","R06047","R06049",
                "R07045","R07046","R07047","R07049"
      = "Involving Parents"

      /*****************************************************************/
      /* Admin. Year Defn. */
      /* 2001      2002      2003     2004     2005     2006     2007  */
      /*****************************************************************/
      "R00042", "R02042", "R03056","R04052","R05050","R06050","R07050" = "Health Care"
      "R00057", "R02057", "R03085","R04078","R05071","R06071","R07059" = "Health Plan"
      "R00008",  "R02008",  "R03013","R04006","R05007","R06007","R07007"  =  "Personal  Doctor  or
Nurse"
      "R00016", "R02016", "R03021","R04020","R05021","R06021","R07017" = "Specialty Care"
     ;

    VALUE BEN
      1 = 'Getting Needed Care'
      2 = 'Getting Care Quickly'
      3 = 'How Well Doctors Communicate'
      4 = 'Courteous and Helpful Office Staff'
      5 = 'Customer Service'
      6 = 'Health Plan'
      7 = 'Health Care'
      8 = 'Personal Doctor or Nurse'
      9 = 'Specialty Care'
     10 = 'Involving Parents'
    ;
      VALUE GETNCARE
      1 = "Problems Getting Personal Doctor/Nurse"
      2 = "Problems Getting to See Specialist"
      3 = "Problems Getting Necessary Care"
      4 = "Delays in Care While Awaiting Approval"
      5 = "Composite";

      VALUE GETCAREQ
      1 = "Advice over Telephone"
      2 = "Wait for Routine Visit"
      3 = "Wait for Urgent Care"
      4 = "Wait in Doctor`s Office"
      5 = "Composite";
```

```
  VALUE CRTSHELP
  1 = "Courteous and Respectful"
  2 = "Helpful"
  3 = "Composite";

  VALUE HOWWELL
  1 = "Listens Carefully"
  2 = "Explains so you can Understand"
  3 = "Explains so your child can Understand"
  4 = "Shows Respect"
  5 = "Spends Time with your child"
  6 = "Composite";

  VALUE CUSTSERV
  1 = "Problem Finding/Understanding Written Material"
  2 = "Problem Getting Help from Customer Service"
  3 = "Problem with Paperwork"
  4 = "Composite";

  VALUE INVRENT
  1 = "Make Easy To Discuss Questions"
  2 = "Get Information Needed From Doctor"
  3 = "Questions Answered By Doctor"
  4 = "Doctor Involves Parent In Decision"
  5 = "Composite";

RUN;
```

G.9 BENCHMARK\BENCHC01.SAS - EXTRACT CHILD CAHPS QUESTIONS FROM NCBD.

```
***************************************************************************
*
* PROGRAM:  BENCHC01.SAS
* TASK:     2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE:  Extract Child CAHPS Questions from NCBD
*
* WRITTEN:  07/14/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/05/2001 BY KEITH RATHBUN, Updated variable names to
*              accommodate the 2000 Q3 Child DOD survey.  Removed unnecessary
*              references to C99D65.
*           2) 10/05/2001 BY KEITH RATHBUN, Added specialty care (C00016).
*           3) 10/31/2002 BY MIKE SCOTT, Updated variable names to
*              accommodate the 2002 Q3 Child DOD survey.
*           4) 12/03/2003 BY MIKE SCOTT, Updated variable and question names
*              for Q4 2003 Child survey.  Deleted line in first data step:
*              IF CC37=. THEN CC38=.  Added code to make PRODUCT numeric for
*              NEST statement in BENCHC04_5.  Added V612 to libnames.
*           5) 01/09/2006 BY REGINA GRAMSS, updated to use 2004 benchmark data.
*           6) 01/11/2006 BY REGINA GRAMSS, updated field names for 2005.  Limit
*              data to child less than 18 and delete missing age children.
*           7) 09/18/2006 BY JUSTIN OH, updated to use 2006 MPR variables.
*           8) 10/09/2007 BY KEITH RATHBUN, updated to use 2007 MPR variables.
*
* INPUTS:   1) CC2004DB.SD2 - 2004 Child CAHPS Questions
*
* OUTPUT:   1) BENCHC01.SD2 - 2004 Child CAHPS Questions Renamed to be
*              consistent with the Child DOD Survey.
*
* NOTES:
*
* 1) This program will generate the input for BENCHC02.SAS.
*
***************************************************************************
* Assign data libraries and options
***************************************************************************;
LIBNAME IN   V612   "..\..\..\2004AdultChildNCBD\CC";
LIBNAME OUT  V612   "DataChild";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHC01;
   SET IN.CC2004DB;
   FORMAT _ALL_;
   C07009   = CC07_04;
   C07007   = CC05_04;
   C07015   = CC13_04;
   C07017   = CC15_04;
   C07024   = CC18_04;
   C07028   = CC23_04;
   C07026   = CC20_04;
   C07032   = CC28_04;
   C07033   = CC29_04;
   C07034   = CC30_04;
   C07035   = CC31_04;
   C07036   = CC32_04;
   C07037   = CC33_04;
   C07038   = CC34_04;
   C07039   = CC35_04;
   C07040   = CC36_04;
   C07042   = CC38_04;
   C07043   = CC39_04;
   C07050   = CC49_04;
   C07054   = CC69_04;
   C07056   = CC71_04;
   C07058   = CC77_04;
   C07059   = CC78_04;
   AGEGROUP = CC92_04; * Parents Age Grouping;
   ZAGE     = CC88_04; * Childs Age;
   XSEXA    = CC89_04; * Childs Sex;
   SREDHIGH = CC94_04; * Parents Education Level;
   C07064   = CC82_04; * Childs Health Status;
```

```
   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;

   IF ZAGE NE . AND ZAGE < 18;   /* 01/31/2006 - RSG - LIMIT AGE GROUP TO CHILD ONLY*/

   LABEL C07009   = "CC07_04 - CAHPS variable"
         C07007   = "CC05_04 - CAHPS variable"
         C07015   = "CC13_04 - CAHPS variable"
         C07017   = "CC15_04 - CAHPS variable"
         C07024   = "CC18_04 - CAHPS variable"
         C07028   = "CC23_04 - CAHPS variable"
         C07026   = "CC20_04 - CAHPS variable"
         C07032   = "CC28_04 - CAHPS variable"
         C07033   = "CC29_04 - CAHPS variable"
         C07034   = "CC30_04 - CAHPS variable"
         C07035   = "CC31_04 - CAHPS variable"
         C07036   = "CC32_04 - CAHPS variable"
         C07037   = "CC33_04 - CAHPS variable"
         C07038   = "CC34_04 - CAHPS variable"
         C07039   = "CC35_04 - CAHPS variable"
         C07040   = "CC36_04 - CAHPS variable"
         C07042   = "CC38_04 - CAHPS variable"
         C07043   = "CC39_04 - CAHPS variable"
         C07050   = "CC49_04 - CAHPS variable"
         C07054   = "CC69_04 - CAHPS variable"
         C07056   = "CC71_04 - CAHPS variable"
         C07058   = "CC77_04 - CAHPS variable"
         C07059   = "CC78_04 - CAHPS variable"
         AGEGROUP = "CC92_04 - CAHPS variable" /* Parents Age Grouping    */
         ZAGE     = "CC88_04 - CAHPS variable" /* Childs Age              */
         XSEXA    = "CC89_04 - CAHPS variable" /* Childs Sex              */
         SREDHIGH = "CC94_04 - CAHPS variable" /* Parents Education Level */
         C07064   = "CC82_04 - CAHPS variable" /* Childs Health Status    */
         ;
   KEEP C07009
        C07007
        C07015
        C07017
        C07024
        C07028
        C07026
        C07032
        C07033
        C07034
        C07035
        C07036
        C07037
        C07038
        C07039
        C07040
        C07042
        C07043
        C07050
        C07054
        C07056
        C07058
        C07059
        AGEGROUP
        ZAGE
        XSEXA
        SREDHIGH
        C07064
        PLANID
        MODEL
        DISP
        ;
RUN;

DATA OUT.BENCHC01 (DROP=PLANID);
  SET OUT.BENCHC01;
```

```
  LENGTH PRODUCT 8;
  PRODUCT = PLANID;
RUN;

TITLE1 "Extract 2004 Child CAHPS Questions (6244-410)";
TITLE2 "Program Name: BENCHC01.SAS By Keith Rathbun";
TITLE3 "Program Input: CHILD.SD2";
TITLE4 "Program Output: BENCHC01.SD2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES _ALL_ /MISSING LIST;
RUN;
```

G.10 BENCHMARK\BENCHC02.SAS - RECODE CHILD CAHPS QUESTIONS FROM NCBD TO BE CONSISTENT WITH THE HCSDB.

```
***************************************************************************
*
* PROGRAM:  BENCHC02.SAS
* TASK:     2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE:  Recode Child CAHPS Questions
*
* WRITTEN:  07/17/2000 BY KEITH RATHBUN
*
* MODIFIED: 1) 09/05/2001 BY KEITH RATHBUN, Updated variable names to
*              accommodate the 2000 Q3 Child DOD Survey.
*           2) 10/05/2001 BY KEITH RATHBUN, Added specialty care (C00016).
*           3) 11/29/2001 BY KEITH RATHBUN, Removed reverse ordering
*              of C00033.
*           4) 10/31/2002 BY MIKE SCOTT, Updated variable names to
*              accommodate the 2002 Q3 Child DOD Survey.
*           5) 12/05/2003 BY MIKE SCOTT, Updated variable names for Q3 2004
*              Child survey.  Added code for C03073 and C03074.  Added V612
*              to libnames.
*           6) 01/09/2006 BY REGINA GRAMSS, Updated for 2004 - use 2004
*              benchmark data.  Also changed format/layout to mimic adult
*              benchmark.
*           7) 01/11/2006 BY REGINA GRAMSS, Updated for 2005.
*           8) 09/18/2006 BY JUSTIN OH, Updated for 2006.
*           9) 10/09/2007 BY KEITH RATHBUN, Updated for 2007.
*
* INPUT:    1) BENCHC01.SD2 - Child CAHPS Questions Renamed to be
*              consistent with the Child DOD Survey.
*
* OUTPUT:   1) BENCHC02.SD2 - Recoded Child CAHPS Questions Renamed
*              to be consistent with the Child DOD Survey.
*
* NOTES:
*
* 1) Run this program after BENCHC01.SAS.
* 2) This program will generate the input for BENCHC04.SAS.
*
***************************************************************************
* Assign data libraries and options
***************************************************************************;
LIBNAME IN   V612   "DataChild";
LIBNAME OUT  V612   "DataChild";
OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

DATA OUT.BENCHC02;
   SET IN.BENCHC01;

   ************************************************************************
   * 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 C07024 = 1      THEN R07024 = 1;
   ELSE IF C07024 = 2 THEN R07024 = 1;
   ELSE IF C07024 = 3 THEN R07024 = 2;
   ELSE IF C07024 = 4 THEN R07024 = 3;
   ELSE IF C07024 < 0 THEN R07024 = .;

   IF C07028 = 1      THEN R07028 = 1;
   ELSE IF C07028 = 2 THEN R07028 = 1;
   ELSE IF C07028 = 3 THEN R07028 = 2;
   ELSE IF C07028 = 4 THEN R07028 = 3;
   ELSE IF C07028 < 0 THEN R07028 = .;

   IF C07026 = 1      THEN R07026 = 1;
   ELSE IF C07026 = 2 THEN R07026 = 1;
   ELSE IF C07026 = 3 THEN R07026 = 2;
   ELSE IF C07026 = 4 THEN R07026 = 3;
   ELSE IF C07026 < 0 THEN R07026 = .;
```

```
IF C07035 = 1      THEN R07035 = 1;
ELSE IF C07035 = 2 THEN R07035 = 1;
ELSE IF C07035 = 3 THEN R07035 = 2;
ELSE IF C07035 = 4 THEN R07035 = 3;
ELSE IF C07035 < 0 THEN R07035 = .;

IF C07038 = 1      THEN R07038 = 1;
ELSE IF C07038 = 2 THEN R07038 = 1;
ELSE IF C07038 = 3 THEN R07038 = 2;
ELSE IF C07038 = 4 THEN R07038 = 3;
ELSE IF C07038 < 0 THEN R07038 = .;

IF C07039 = 1      THEN R07039 = 1;
ELSE IF C07039 = 2 THEN R07039 = 1;
ELSE IF C07039 = 3 THEN R07039 = 2;
ELSE IF C07039 = 4 THEN R07039 = 3;
ELSE IF C07039 < 0 THEN R07039 = .;

IF C07040 = 1      THEN R07040 = 1;
ELSE IF C07040 = 2 THEN R07040 = 1;
ELSE IF C07040 = 3 THEN R07040 = 2;
ELSE IF C07040 = 4 THEN R07040 = 3;
ELSE IF C07040 < 0 THEN R07040 = .;

IF C07042 = 1      THEN R07042 = 1;
ELSE IF C07042 = 2 THEN R07042 = 1;
ELSE IF C07042 = 3 THEN R07042 = 2;
ELSE IF C07042 = 4 THEN R07042 = 3;
ELSE IF C07042 < 0 THEN R07042 = .;

IF C07043 = 1      THEN R07043 = 1;
ELSE IF C07043 = 2 THEN R07043 = 1;
ELSE IF C07043 = 3 THEN R07043 = 2;
ELSE IF C07043 = 4 THEN R07043 = 3;
ELSE IF C07043 < 0 THEN R07043 = .;

IF C07036 = 1      THEN R07036 = 1;
ELSE IF C07036 = 2 THEN R07036 = 1;
ELSE IF C07036 = 3 THEN R07036 = 2;
ELSE IF C07036 = 4 THEN R07036 = 3;
ELSE IF C07036 < 0 THEN R07036 = .;

IF C07037 = 1      THEN R07037 = 1;
ELSE IF C07037 = 2 THEN R07037 = 1;
ELSE IF C07037 = 3 THEN R07037 = 2;
ELSE IF C07037 = 4 THEN R07037 = 3;
ELSE IF C07037 < 0 THEN R07037 = .;

IF C07064 = 1      THEN R07064 = 5;
ELSE IF C07064 = 2 THEN R07064 = 4;
ELSE IF C07064 = 3 THEN R07064 = 3;
ELSE IF C07064 = 4 THEN R07064 = 2;
ELSE IF C07064 = 5 THEN R07064 = 1;
ELSE IF C07064 > 5 | C07064 < 1 THEN R07064 = .;

*********************************************************************
* Recode variables to one missing condition "."
* This also renames all the "C07xxx" to 'R07xxx".
*********************************************************************;
R07009 = C07009;  IF R07009 < 0 THEN R07009 = .;
R07015 = C07015;  IF R07015 < 0 THEN R07015 = .;
R07032 = C07032;  IF R07032 < 0 THEN R07032 = .;
IF C07033 = 2 THEN C07034=3;
R07034 = C07034;  IF R07034 < 0 THEN R07034 = .;
R07054 = C07054;  IF R07054 < 0 THEN R07054 = .;
R07056 = C07056;  IF R07056 < 0 THEN R07056 = .;
R07058 = C07058;  IF R07058 < 0 THEN R07058 = .;
R07050 = C07050;  IF R07050 < 0 THEN R07050 = .;
R07059 = C07059;  IF R07059 < 0 THEN R07059 = .;
R07007 = C07007;  IF R07007 < 0 THEN R07007 = .;
R07017 = C07017;  IF R07017 < 0 THEN R07017 = .;

LABEL R07009   = "CC07_04 - Recoded CAHPS variable"
```

```
         R07007   = "CC05_04 - Recoded CAHPS variable"
         R07015   = "CC13_04 - Recoded CAHPS variable"
         R07017   = "CC15_04 - Recoded CAHPS variable"
         R07024   = "CC18_04 - Recoded CAHPS variable"
         R07028   = "CC23_04 - Recoded CAHPS variable"
         R07026   = "CC20_04 - Recoded CAHPS variable"
         R07032   = "CC28_04 - Recoded CAHPS variable"
         R07034   = "CC30_04 - Recoded CAHPS variable"
         R07035   = "CC31_04 - Recoded CAHPS variable"
         R07036   = "CC32_04 - Recoded CAHPS variable"
         R07037   = "CC33_04 - Recoded CAHPS variable"
         R07038   = "CC34_04 - Recoded CAHPS variable"
         R07039   = "CC35_04 - Recoded CAHPS variable"
         R07040   = "CC36_04 - Recoded CAHPS variable"
         R07042   = "CC38_04 - Recoded CAHPS variable"
         R07043   = "CC39_04 - Recoded CAHPS variable"
         R07050   = "CC49_04 - Recoded CAHPS variable"
         R07054   = "CC69_04 - Recoded CAHPS variable"
         R07056   = "CC71_04 - Recoded CAHPS variable"
         R07058   = "CC77_04 - Recoded CAHPS variable"
         R07059   = "CC78_04 - Recoded CAHPS variable"
         R07064   = "CC82_04 - Recoded CAHPS variable"
         PRODUCT  = "Product ID - CAHPS variable";
       ;
RUN;

TITLE1 "Recode 2007 Child CAHPS Questions (6244-410)";
TITLE2 "Program Name: BENCHC02.SAS By Keith Rathbun";
TITLE3 "Program Input: BENCHC01.SD2";
TITLE4 "Program Output: BENCHC02.SD2";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES  AGEGROUP
        ZAGE
        XSEXA
        SREDHIGH
        C07009 * R07009
        C07007 * R07007
        C07015 * R07015
        C07017 * R07017
        C07024 * R07024
        C07028 * R07028
        C07026 * R07026
        C07032 * R07032
        C07034 * R07034
        C07035 * R07035
        C07036 * R07036
        C07037 * R07037
        C07038 * R07038
        C07039 * R07039
        C07040 * R07040
        C07042 * R07042
        C07043 * R07043
        C07050 * R07050
        C07054 * R07054
        C07056 * R07056
        C07058 * R07058
        C07059 * R07059
        C07064 * R07064
   /MISSING LIST;
RUN;
```

G.11 BENCHMARK\BENCHC03.SAS - CALCULATE CAHPS BENCHMARK DATA FOR CHILD HCSDB.

```
***************************************************************************
*
* PROGRAM:  BENCHC03.SAS
* TASK:     2007 DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* PURPOSE:  Adjust Adult CAHPS Benchmarks
*
* WRITTEN:  June 2000 BY ERIC SCHONE
*
* INPUTS:   1) BENCHC02.SD2 - 2000 Child CAHPS Questions Renamed to be
*              consistent with the 2000 MPR DOD Survey.
*           2) GROUP8.SD2 - CAHPS Group8 (all beneficiaries) Dataset
*
* OUTPUTS:  1) Benchmark Composite Scores Data Sets
*
* MODIFIED: 1) Jan 2006 BY REGINA GRAMSS - Modified adult BENCHA03.SAS for child
*              Benchmark program with applicable field names and composites.
*           2) Sep 2006 BY JUSTIN OH - Modified adult BENCHA03.SAS for child
*              Benchmark program with applicable field names and composites.
*           3) Oct 2007 BY KEITH RATHBUN - Updated for 2007 child survey.
*
* 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
***************************************************************************;
libname in  v612 'dataCHILD';
libname in2 v612 '..\ReportCards\CAHPS_ChildQ4FY2007\Data';
libname out v612 'dataCHILD';

%let wgt=wrwt;

OPTIONS MLOGIC MPRINT NOCENTER 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=setup2;
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;
run;

data count(keep=pweight product);
 if _n_=1 then set count2;
 set count;
 pweight=denom/_freq_;
run;

data temp;
 merge count  setup2; by product;

run;
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 REPLACE
 FILENAME=s_&x;
RUN;

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);
  %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,e);
 %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;

 %if &e~= %then %do;
```

```
   proc sort data=r_&e;
    by mpid;
   run;
   %let grpnum=5;
   %let n=%str(&n r_&e);
    %do i=1 %to 8;
     %let p&i=%str(&&p&i &e._&i);
    %end;

    %let m=%str(&m s_&e);
  %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;
  %if &e~= %then %do;
   set s_&e;
  %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;
```

```
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.benchc02 out=setup;
 by product;
run;
data setup;
set setup;
if ^(model in (2,4));
if disp in ('M10','T10');   ***MJS 05/06/03 Changed _01 to _02;
run;
data setup2;
 set setup; by product;
 mpid=_n_;

 IF (ZAGE NE . AND ZAGE NE 255) THEN DO;
      AGEUND6 = 0;
      AGE0612 = 0;
      AGE1317 = 0;

      IF      (ZAGE < 6)         THEN AGEUND6 = 1;
      ELSE IF (6  <= ZAGE <= 12) THEN AGE0612 = 1;
      ELSE IF (13 <= ZAGE <= 17) THEN AGE1317 = 1;
 END;

 if agegroup ne . then do;
 ageund18=0; age1824=0; age2534=0; age3544=0; age4554=0; age5564=0; age6574=0;

      if agegroup=0 then ageund18 = 1;
 else 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;

run;
%INCLUDE "..\ReportCards\CAHPS_ChildQ4FY2007\CONVERT.SAS";

%CONT1(DSN=SETUP2, NUM=7,  Y=R07009 R07015 R07032 R07034
                             R07054 R07056 R07058);

%CONT2(DSN=SETUP2, NUM=4,  Y=R07050 R07059 R07007 R07017);

%CONT3(DSN=SETUP2, NUM=11, Y=R07024 R07028 R07026 R07035
                             R07038 R07039 R07040 R07042
                             R07043 R07036 R07037);
/* GETTING NEEDED CARE */
%ADJUST(R07009,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07015,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07032,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07034,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
```

```
%COMP(1,R07009,R07015,R07032,R07034);

/* GETTING NEEDED CARE QUICKLY */
%ADJUST(R07024,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07028,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07026,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07035,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(2,R07024,R07028,R07026,R07035);

/* HOW WELL DOCTORS COMMUNICATE */
%ADJUST(R07038,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07039,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07040,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07042,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07043,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(3,R07038,R07039,R07040,R07042,R07043);

/* COURTEOUS AND HELPFUL OFFICE STAFF */
%ADJUST(R07036,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07037,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(4,R07036,R07037);

/* CUSTOMER SERVICE */
%ADJUST(R07054,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07056,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%ADJUST(R07058,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(5,R07054,R07056,R07058);

/* RATING ALL HEALTH CARE: 0 - 10 */
%ADJUST(R07050,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(6,R07050);

/* RATING OF HEALTH PLAN: 0 - 10 */
%ADJUST(R07059,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(7,R07059);

/* RATING OF PERSONAL DR: 0 - 10 */
%ADJUST(R07007,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(8,R07007);

/* RATING OF SPECIALTY CARE: 0 - 10 */
%ADJUST(R07017,AGEUND18 AGE1824 AGE2534 AGE3544 AGE4554 AGE0612 AGE1317 R07064);
%COMP(9,R07017);
```

G.12 BENCHMARK\BENCHC04.SAS - CONVERT THE BENCHMARK SCORES DATABASE INTO THE WEB LAYOUT.

```
***************************************************************************
*
* PROGRAM:  BENCHC04.SAS
* TASK:     Quarterly DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
* 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.SD2 where n = composite number and i = group number)
*
* OUTPUT:   1) BENCHC04.SD2 - Combined Benchmark Scores Database in WEB layout
*
* INCLUDES: 1) LOADCAHQ.INC - Format definitions for CAHPS Individual
*              and composite data sets
*
* MODIFIED: 1) Jan 2006 - Regina Gramss: Modified Adult BENCHA04.SAS program
*              for child benchmark, including changing field names and
*              composites.
*           2) Oct 2007 - Keith Rathbun: Updated for 2007 child survey.  Also
*              added DOIT macro to process all 8 groups.
*
* NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - BENCHC01.SAS - Extract Benchmark variables
*    - BENCHC02.SAS - Recode Benchmark variables
*    - BENCHC03.SAS - Construct Scores and SEMEAN datasets
*
* 2) The output file (BENCHC04.SD2) will be run through the
*    MAKEHTML.SAS program to generate the WEB pages.
*
***************************************************************************
* Assign data libraries and options
***************************************************************************;
LIBNAME IN  V612 "DATACHILD";
LIBNAME OUT V612 "DATACHILD";
LIBNAME IN2 V6 'predtest';
OPTIONS PS=79 LS=132 COMPRESS=NO NOCENTER MPRINT MLOGIC;

***************************************************************************
* Load Format definitions for CAHPS Individual and composite data sets.
***************************************************************************;
%INCLUDE "..\LOADWEB\LOADCAHC.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 = 1 AND C07004=4
* 2. Enrollees w/mil PCM      XENR_PCM = 1 AND C07004=4
* 3. Enrollees w/civ PCM      XENR_PCM = 2 AND C07004=4
* 4. Nonenrollees             XINS_COV IN (2,3)
* 5. Under Age 6              AGEUND6 = 1
* 6. 6-12 Years               AGE0612 = 1
* 7. 13-17 Years              AGE1317 = 1
* 8. All beneficiaries        All beneficiaries
*
***************************************************************************;
%MACRO PROCESS(CNUM=, GNUM=, NVAR=, VARS=, SE=);
```

```
*************************************************************************
* Assign value for BENTYPE composite year
*************************************************************************;
%LET YEAR = "2007";   /*MJS 10/21/03*/

*************************************************************************
* 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  $15;
      LENGTH REGCAT  $26;
      LENGTH BENTYPE $50;
      LENGTH BENEFIT $34;
      LENGTH TIMEPD  $35;   ***MJS 07/03/03 Added line;

      ********************************************************************
      * For now, assign SIG = 0
      ********************************************************************;
      SIG = 0;

      ********************************************************************
      * Assign major group
      ********************************************************************;
      MAJGRP  = PUT(&Gnum,ROWCATF.);

      ********************************************************************
      * 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 = "Courteous and Helpful Office Staff";
      ELSE IF &CNUM = 5  THEN BENEFIT = "Customer Service";
      ELSE IF &CNUM = 6  THEN BENEFIT = "Health Care";
      ELSE IF &CNUM = 7  THEN BENEFIT = "Health Plan";
      ELSE IF &CNUM = 8  THEN BENEFIT = "Personal Doctor or Nurse";
      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 = 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.);
            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
        TIMEPD   /*MJS 07/03/03 Added*/
        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=4, VARS=R07009_&I R07015_&I R07032_&I R07034_&I,
                              SE=S_R07009 S_R07015 S_R07032 S_R07034);

   ************************************************************************
   * COMPOSITE # 2.
   * GETTING CARE QUICKLY VARIABLES.
   ************************************************************************;
   %PROCESS(CNUM=2, GNUM=&I, NVAR=4, VARS=R07024_&I R07028_&I R07026_&I R07035_&I,
                                 SE=S_R07024 S_R07028 S_R07026 S_R07035);

   ************************************************************************
```

```
   * COMPOSITE # 3.
   * HOW WELL DOCTORS COMMUNICATE.
   ************************************************************************;
   %PROCESS(CNUM=3, GNUM=&I, NVAR=5, VARS=R07038_&I R07039_&I R07040_&I R07042_&I R07043_&I,
                            SE=S_R07038 S_R07039 S_R07040 S_R07042 S_R07043);

   ************************************************************************
   * COMPOSITE # 4.
   * COURTEOUS AND HELPFUL OFFICE STAFF.
   ************************************************************************;
   %PROCESS(CNUM=4, GNUM=&I, NVAR=2, VARS=R07036_&I R07037_&I, SE=S_R07036 S_R07037);

   ************************************************************************
   * COMPOSITE # 5.
   * CUSTOMER SERVICE.
   ************************************************************************;
   %PROCESS(CNUM=5, GNUM=&I, NVAR=3, VARS=R07054_&I R07056_&I R07058_&I,
                            SE=S_R07054 S_R07056 S_R07058);

   ************************************************************************
   * INDIVIDUAL # 1.
   * RATING OF ALL HEALTH CARE: 0 - 10.
   ************************************************************************;
   %PROCESS(CNUM=6, GNUM=&I, NVAR=1, VARS=R07050_&I, SE=S_R07050);

   ************************************************************************
   * INDIVIDUAL # 2.
   * RATING OF HEALTH PLAN: 0 - 10.
   ************************************************************************;
   %PROCESS(CNUM=7, GNUM=&I, NVAR=1, VARS=R07059_&I, SE=S_R07059);

   ************************************************************************
   * INDIVIDUAL # 3.
   * RATING OF PERSONAL DOCTOR: 0 - 10.
   ************************************************************************;
   %PROCESS(CNUM=8, GNUM=&I, NVAR=1, VARS=R07007_&I, SE=S_R07007);

   ************************************************************************
   * INDIVIDUAL # 4.
   * RATING OF SPECIALITY CARE: 0 - 10.
   ************************************************************************;
   %PROCESS(CNUM=9, GNUM=&I, NVAR=1, VARS=R07017_&I, SE=S_R07017);
%END;
%MEND DOIT;
%DOIT;

***************************************************************************
***************************************************************************
* STACK up all of the files into one final output dataset.
***************************************************************************
***************************************************************************;
DATA OUT.BENCHC04;
   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
       COMP9_1  COMP9_2  COMP9_3  COMP9_4  COMP9_5  COMP9_6  COMP9_7  COMP9_8
    ;
    IF SCORE = . THEN DELETE;
RUN;

TITLE1 "2007 DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: BENCHC04.SAS By Keith Rathbun";
TITLE3 "Program Inputs: Benchmark Individual and Composite data sets with adjusted scores";
TITLE4 "Program Outputs: BENCHC04.SD2 - Combined Benchmark Scores Database in WEB layout";

PROC CONTENTS; RUN;

PROC FREQ;
TABLES BENEFIT BENTYPE MAJGRP REGCAT
```

```
      /MISSING LIST;
RUN;
```

G.13 BENCHMARK\PREDTEST\SAS2STATA_GRPS.PRG - CONVERT SAS FORMAT GROUP1-8 FILES INTO STATA FORMAT.

```
compute;
in=k:\q4fy2007\programs\benchmark\datachild\benchc02.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\benchc02.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group1.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group1.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group2.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group2.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group3.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group3.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group4.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group4.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group5.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group5.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group6.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group6.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group7.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group7.stata7;
run;

compute;
in=k:\q4fy2007\programs\reportcards\cahps_childq4fy2007\data\group8.sd2
   out=k:\q4fy2007\programs\benchmark\predtest\group8.stata7;
run;
```

G.14 BENCHMARK\PREDTEST\VARTEST.DO - CREATE PROJERR1-8 STATA FILES.

```
/*
   Program: vartest.do
   Author:  Eric Schone
   Modified: 11/15/2006 Justin Oh
             Added global variable "path" for assigning folder directory

   WARNING - MUST EDIT THE GLOBAL PATH FOR EACH REPORTING PERIOD
*/


global path "k:\q4FY2007"


program define initial
version 7.0
local i=1
while `i'<9{

gen str8 var=" "
gen se=.
saveold "$path\Programs\Benchmark\predtest\projerr`i'",replace
clear
 local i=`i'+1
}
end
program define stdlist1
version 7.0
local varlist required existing
parse "`*'"
while "`1'"~=""{

use "$path\Programs\Benchmark\predtest\benchc02",clear
keep if model~=2 & model ~=4
keep if disp=="M10"|disp=="T10"





gen age0612=0 if zage~=.
gen age1317=0 if zage~=.
replace age0612=1 if zage>=6 & zage<=12
replace age1317=1 if zage>=13 & zage<18





 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
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*r07064), by(product)
keep if ct>1
drop ct


svyreg `1' age1824 age2534 age3544 age4554 age5564 age0612 age1317 r07064

local i=1
while `i'<9{
use "$path\Programs\Benchmark\predtest\group`i'",clear
collapse (mean) age1824 age2534 age3544 age4554 age5564 age0612 age1317 r07064 [aw=wrwt]

predict se, stdp
keep se
gen str8 var="`1'"
append using "$path\Programs\Benchmark\predtest\projerr`i'"
saveold "$path\Programs\Benchmark\predtest\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\Programs\Benchmark\predtest\benchc02",clear
keep if model~=2 & model ~=4
keep if disp=="M10"|disp=="T10"





gen age0612=0 if zage~=.
gen age1317=0 if zage~=.
replace age0612=1 if zage>=6 & zage<=12
replace age1317=1 if zage>=13 & zage<18





 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
replace `1'=0 if `1'~=. & `1'<3
replace `1'=1 if `1'==3
egen coun=count(`1'), by(product)
gen wt=1/coun
svyset strata product
svyset pweight coun

egen ct=count(`1'*age1824*r07064), by(product)
keep if ct>1
```

```
drop ct


svyreg `1' age1824 age2534 age3544 age4554 age5564 age0612 age1317 r07064

local i=1
while `i'<9{
use "$path\Programs\Benchmark\predtest\group`i'",clear
collapse (mean) age1824 age2534 age3544 age4554 age5564 age0612 age1317 r07064 [aw=wrwt]

predict se, stdp
keep se
gen str8 var="`1'"
append using "$path\Programs\Benchmark\predtest\projerr`i'"
saveold "$path\Programs\Benchmark\predtest\projerr`i'",replace
local i=`i'+1
}
macro shift
}
end
program define stdlist3
version 7.0
local varlist required existing
parse "`*'"

while "`1'"~=""{

use "$path\Programs\Benchmark\predtest\benchc02",clear
keep if model~=2 & model ~=4
keep if disp=="M10"|disp=="T10"





gen age0612=0 if zage~=.
gen age1317=0 if zage~=.
replace age0612=1 if zage>=6 & zage<=12
replace age1317=1 if zage>=13 & zage<18





 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
replace `1'=0 if `1'~=. & `1'<3
replace `1'=1  if 3<=`1' & `1'<=4

egen coun=count(`1'), by(product)
gen wt=1/coun
svyset strata product
svyset pweight coun

egen ct=count(`1'*age1824*r07064), by(product)
keep if ct>1
drop ct
svyreg `1' age1824 age2534 age3544 age4554 age5564 age0612 age1317 r07064

local i=1
```

```
while `i'<9{
use "$path\Programs\Benchmark\predtest\group`i'",clear
collapse (mean) age1824 age2534 age3544 age4554 age5564 age0612 age1317 r07064 [aw=wrwt]

predict se, stdp
keep se
gen str8 var="`1'"
append using "$path\Programs\Benchmark\predtest\projerr`i'"
saveold "$path\Programs\Benchmark\predtest\projerr`i'",replace
local i=`i'+1
}
macro shift
}
end

set more 1

set mem 100m

log using "$path\Programs\Benchmark\predtest\varlog",replace
initial
use "$path\Programs\Benchmark\predtest\benchc02",clear
stdlist2 r07009 r07015 r07032 r07034 r07054 r07056 r07058
use "$path\Programs\Benchmark\predtest\benchc02",clear
stdlist1 r07050 r07059 r07007 r07017
use "$path\Programs\Benchmark\predtest\benchc02",clear
stdlist3 r07024 r07028 r07026 r07035 r07038 r07039 r07040 r07042 r07043 r07036 r07037
log close
```

G.15 BENCHMARK\PREDTEST\STATA2SAS_PROJ.PRG - CONVERT STATA FORMAT PROJERR1-8 FILES INTO SAS FORMAT.

```
compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr1.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr1.sd2;
run;

compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr2.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr2.sd2;
run;

compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr3.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr3.sd2;
run;

compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr4.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr4.sd2;
run;

compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr5.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr5.sd2;
run;

compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr6.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr6.sd2;
run;

compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr7.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr7.sd2;
run;

compute;
in=k:\q4fy2007\programs\benchmark\predtest\projerr8.stata7
   out=k:\q4fy2007\programs\benchmark\predtest\projerr8.sd2;
run;
```

G.16 BENCHMARK\PREDTEST\PREDCOMP.SAS - CALCULATE COMPOSITES USING SAS FORMAT PROJERR1-8 FILES.

```
/*****************************************************************
/*  Project:  DoD HCSDB Child Report Cards
/*  Program:  PREDCOMP.SAS
/*  Purpose:  Child Report Card
/*  Requires programs STEP1C and STEP2C.SAS
/*
/*
/*****************************************************************/
OPTIONS NOCENTER LS=132 PS=78 SOURCE SOURCE2 MLOGIC MPRINT NOOVP COMPRESS=YES;
libname in  V612 ".";


 %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;
  run;



%MEND COMPOSIT;

*-------------------------------------;
*-       set the parameters here      -;
*-------------------------------------;
************************************;
*  call the macro for each composite;
************************************;
%COMPOSIT (type=R,compos=1,var1=R07009,var2=R07015,var3=R07032,var4=R07034,qcount=4);
%COMPOSIT (type=R,compos=2,var1=R07024,var2=R07028,var3=R07026,var4=R07035,qcount=4);
%COMPOSIT
(type=R,compos=3,var1=R07038,var2=R07039,var3=R07040,var4=R07042,var5=R07043,qcount=5);
%COMPOSIT (type=R,compos=4,var1=R07036,var2=R07037,qcount=2);
%COMPOSIT (type=R,compos=5,var1=R07054,var2=R07056,var3=R07058,qcount=3);
```

G.17 LOADWEB\FAKEC.SAS - GENERATE THE WEB LAYOUT/TEMPLATE FILE.

```
*********************************************************************
*
* PROJECT:  6244 - 2007 Annual Child Survey
* PROGRAM:  FAKEC.SAS
* PURPOSE:  Generate Fake Data for Report Cards
* AUTHOR:   Natalie Justh
*
* MODIFIED: 1) 10/5/2001 By Keith Rathbun to accommodate 2000 version
*              of the child report card layout file.  Added YEAR
*              parameter for ease of maintenance.  Deleted Attitudes
*              Toward TRICARE Prime and added Speciality Care and
*              Claims Processing.  Removed unnecessary code used to
*              assign SCORE and SIG values.
*
*           2) 10/18/2001 By Chris Rankin to change the order that
*              the data appear in the report cards.
*
*           3) 11/1/2002 By Mike Scott and Keith Rathbun to
*              accommodate the 2002 version of the child report card
*              layout file.
*
*           4) 12/3/2003 By Mike Scott - Updated for Q3 2003.
*           5) 12/30/2005 By Regina Gramss - changed structure and updated
*              for 2004
*           6) 01/20/2006 By Regina Gramss - updated for 2005. Divided macro into
*              2 steps - one for creating Majgrps with Region=Benchmark, then
*              running all the Majgrp (including Benchmark) for the 3 Regions.
*           7) 10/09/2007 By Keith Rathbun - updated for 2007.  Removed
*              Special Needs composite.
*********************************************************************;

LIBNAME  OUT V612 '.';
OPTIONS COMPRESS=YES MPRINT MLOGIC;

%INCLUDE "LOADCAHC.INC";

%LET NUMQTR = 4;   ***JSO 09/20/06 Changed 3 to 4;

%LET PERIOD1 = 2005;
%LET PERIOD2 = 2006;
%LET PERIOD3 = 2007;
%LET PERIOD4 = Trend;

%LET YEAR = 2007;

%MACRO FAKE(CODE);
DATA FAKEC_&CODE.;

  KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD I K;

  LENGTH MAJGRP  $ 30
         REGION  $ 30    /*RSG 01/2005 lengthen format to fit service affiliation*/
         REGCAT  $ 30
         BENTYPE $ 50
         TIMEPD  $ 35;

  %IF &CODE = 1 %THEN %DO;
      DO I=2 TO 9;             ** 8 Major groups **;

         MAJGRP=PUT(I,ROWCAT2F.);

         DO J=4 TO 4;         ** Region=Benchmark **;

         REGION=PUT(J,REGIONF.);
         REGCAT=REGION;
  %END;
  %ELSE %IF &CODE = 2 %THEN %DO;
      DO I=1 TO 9;             ** 8 Major groups, Majgrp=Benchmark **;

         MAJGRP=PUT(I,ROWCAT2F.);
```

```
            DO J=0 TO 3;         ** 3 Regions + Conus MHS **;

            REGION=PUT(J,REGIONF.);
            REGCAT=REGION;
      %END;


           DO K=1 TO 10;      ** 10 Benefits **;

           BENEFIT=PUT(K,BEN.);

             IF K=1 THEN DO;
                 DO L=1 TO 5;                   ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                     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 5;                   ***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;
                 DO L=1 TO 6;                   ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                     BENTYPE=PUT(L,HOWWELL.);   ***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=4 THEN DO;
                 DO L=1 TO 3;                   ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                     BENTYPE=PUT(L,CRTSHELP.);  ***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;
                 DO L=1 TO 4;                   ***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=10 THEN DO;
                 DO L=1 TO 5;                   ***MJS 06/18/03 Added L loop and BENTYPE PUT;
                     BENTYPE=PUT(L,INVRENT.);   ***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 IN (6,7,8,9) THEN DO;
                %DO Q = 1 %TO &NUMQTR;
                    TIMEPD = "&&PERIOD&Q";
                    OUTPUT;
                %END;
             END;
           END;
        END;
      END;
```

```
  SCORE = .;
  SIG   = .;
  IF MAJGRP = "Benchmark" AND REGION = "Benchmark" THEN DELETE;
RUN;
%mend;

%fake(CODE=1);
%fake(CODE=2);

DATA OUT.FAKEC;
SET FAKEC_2 FAKEC_1;
RUN;


PROC FREQ;
  TABLES MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD ;
RUN;
```

G.18 LOADWEB\MERGFINC.SAS - MERGE THE FINAL CAHPS AND MPR SCORES DATABASES INTO THE WEB LAYOUT.

```
*************************************************************************
*
* PROGRAM:  MERGFINC.SAS
* TASK:     2007 DOD HEALTH CARE SURVEY REPORT CARDS (6244-410)
* PURPOSE:  Merge the final CAHPS and MPR Scores Databases
*           into the WEB layout preserving the order of the FAKEC.SD2.
*
* WRITTEN:  06/07/2000 BY KEITH RATHBUN
*
* INPUTS:   1) MPR and CAHPS Individual and Composite data sets with adjusted
*              scores, and benchmark data for DoD HCS.
*              - LOADCAHC.SD2 - CAHPS Scores Database
*              - BENCHC04.SD2 - 2001 CAHPS Benchmark Database
*              - FAKEC.SD2    - WEB Layout in Column order
*
* OUTPUT:   1) MERGFINC.SD2 - Combined Scores Database in WEB layout
*
* MODIFIED: 1) 07/24/2000 By Keith Rathbun - Adapted from MERGFINL.SAS to
*              reflect the requirements of the Child Report Card.
*           2) 08/24/2001 By Keith Rathbun - Updated for Q3 2000 Child
*              Report Cards.
*           3) 10/31/2002 By Mike Scott and Keith Rathbun - Updated for
*              Q3 2002 Child Report Cards.  Recoded BENTYPE, and deleted
*              recoding for ROWCAT.
*           4) 12/06/2003 By Mike Scott - Updated for Q3 2003.
*           5) 10/14/2005 By Regina Gramss - No longer merging in LOADMPR data.
*           6) 12/30/2005 By Regina Gramss - Need just scores so not merge in
*              benchmark data nor pre-existing composite scores.
*           7) 10/09/2007 By Keith Rathbun - Updated for 2007 child survey.
*
* 1) The following steps need to be run prior to this program:
*  - STEP1C.SAS      - Recode questions and generate CAHPS group files
*  - STEP2C.SAS      - Calculate CAHPS individual adjusted scores for groups 1-8
*  - COMPOSIT.SAS    - Calculate composite adjusted scores for group 1-8
*  - BENCHC01-04.SAS - Convert Benchmark Scores into WEB layout
*  - LOADCAHC.SAS    - Convert CAHPS Scores Database into WEB layout
*
* 2) The output file (MERGFINC.SD2) will be run through the
*    MAKEHTMC.SAS program to generate the WEB pages.
*
*************************************************************************
* Assign data libraries and options
*************************************************************************;
LIBNAME IN1  V612 ".";
LIBNAME IN2  V612 "CAHPS_ChildQ4FY2007\DATA";
LIBNAME IN3  V612 "..\BENCHMARK\DATACHILD";
LIBNAME OUT  V612 ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER;

*************************************************************************
* Construct ORDERing variable from WEB layout
*************************************************************************;
DATA ORDER;
   SET IN1.FAKEC;
   ORDER = _N_;
   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;
   KEEP KEY ORDER;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

*************************************************************************
* Merge the Scores Databases
*************************************************************************;

%INCLUDE "LOADCAHC.INC";
```

```
    DATA MERGFINC;
       SET IN2.LOADCAHC(IN=INCAHP)
           IN3.BENCHC04(IN=INBEN);
       SVCAHP = INCAHP;
       SVBEN  = INBEN;
       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 INBEN THEN DO;
          IF MAJGRP = "CONUS MHS" THEN DO;
             DO REG = 0 TO 3; DROP REG;
                MAJGRP = "Benchmark";
                REGION = PUT(REG,REGIONF.);
                REGCAT = PUT(REG,REGIONF.);
                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;
                OUTPUT;
             END;
          END;
       END;

       IF SCORE = . THEN DELETE;
    RUN;

    PROC SORT DATA=MERGFINC; BY KEY; RUN;

    ***************************************************************************
    * Append ORDERing variable to the merged Scores database file
    ***************************************************************************;
    DATA MERGFINC OUT.MISSING;
       MERGE MERGFINC(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";
       ELSE IF    IN2 THEN FLAG = "IN LAYOUT ONLY";

       LENGTH SOURCE $30;
       IF SVCAHP = 1 THEN SOURCE = "CAHPS 2007    ";
       IF SVBEN  = 1 THEN SOURCE = "BENCHMARK 2004";

       IF IN1 AND NOT IN2 THEN OUTPUT OUT.MISSING; *Missing from layout;
       IF IN1 THEN OUTPUT MERGFINC;
    RUN;

    ***************************************************************************
    * Reorder file according to WEB layout
    ***************************************************************************;
    PROC SORT DATA=MERGFINC OUT=OUT.MERGFINC; BY ORDER; RUN;

    DATA FAKEC;
       SET IN1.FAKEC;
       ORDER = _N_;
    RUN;

    DATA LAYONLY;
       MERGE FAKEC(IN=IN1) OUT.MERGFINC(IN=IN2 KEEP=ORDER);
       BY ORDER;
       IF IN1 AND NOT IN2;
    RUN;

    TITLE1 "2007 DOD Health Survey Scores/Report Cards (6244-410)";
    TITLE2 "Program Name: MERGFINC.SAS By Keith Rathbun";
    TITLE3 "Program Inputs: CAHPS Combined Scores data sets and WEB Layout";
    TITLE4  "Program  Outputs:  MERGFINC.SD2  -  Merged  Final  Scores  Database  for  input  to
MAKEHTMC.SAS";
```

```
TITLE5 "MERGFINC.SD2 Data source counts";
PROC FREQ DATA=OUT.MERGFINC;
TABLES SOURCE FLAG SVCAHP SVBEN
      /MISSING LIST;
RUN;

TITLE5 "MERGFINC.SD2 Data attribute counts";
PROC FREQ DATA=OUT.MERGFINC;
TABLES BENEFIT BENTYPE MAJGRP REGION TIMEPD
      /MISSING LIST;
RUN;

TITLE5 "LAYONLY.SD2 Data attribute counts";
PROC FREQ DATA=LAYONLY;
TABLES BENEFIT BENTYPE MAJGRP REGION TIMEPD
      /MISSING LIST;
RUN;

TITLE5 "No matching record found in LAYOUT file (FAKEC.SD2)";
PROC FREQ DATA=OUT.MISSING;
TABLES MAJGRP REGION BENTYPE BENEFIT
       MAJGRP*REGION*BENTYPE*BENEFIT
      /MISSING LIST;
RUN;

TITLE5 "No matching record found in LAYOUT file (FAKEC.SD2)";
PROC PRINT DATA=OUT.MISSING;
VAR MAJGRP REGION BENTYPE BENEFIT;
RUN;
```

G.19 LOADWEB\CONUS_C.SAS - GENERATE CAHPS CONUS SCORES AND PERFORM SIGNIFICANCE TESTS.

```
*************************************************************************
*
*  PROGRAM:  CONUS_C.SAS
*  TASK:     Quarterly CHILD DOD HEALTH CARE SURVEY ANALYSIS (6244-410)
*  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) 01/03/2006 - BY REGINA GRAMSS,
*               ADAPTED ADULT CONUS_Q FOR CHILD REPORTS
*            2) 10/09/2007 BY KEITH RATHBUN:  Update for 2007 Child Survey.
*               Deleted calls to PROCESS macro for Benefit=Special Needs.
*
*   INPUTS:  1) MERGFINC.SD2 - Scores Database in WEB Layout
*            2) FAKEC.SD2 - Scores Database WEB Layout
*               3) CONUS_C.SD2 - Previous Quarters Combined CAHPS/MPR Scores Database in WEB
layout
*
*   OUTPUT:  1) TOTAL_C.SD2 - Combined CAHPS/MPR Scores Database in WEB layout
*            2) LT30C.SD2 - Records with <= 30 observations
*
*    NOTES:
*
* 1) The following steps need to be run prior to this program:
*    - STEP1C.SAS   - Recode questions and generate group files
*    - STEP2C.SAS   - Calculate individual adjusted scores for group 1-7
*    - COMPOSIT.SAS - Calculate composite adjusted scores for group 1-8
*    - LOADCAHC.SAS - Combine all questionnaire (CAHPS) scores together
*    - MERGFINC.SAS - Merge the final CAHPS and MPR Scores Databases
*
*************************************************************************
* Assign data libraries and options
*************************************************************************;
LIBNAME IN1 V612 ".";
LIBNAME OUT V612 ".";

OPTIONS PS=79 LS=132 COMPRESS=YES NOCENTER MPRINT MLOGIC;

*************************************************************************;
* Define GLOBAL parameters for last CONUS_C.SD2, rolling years, and
* input dataset name.
*
* IMPORTANT: Update these GLOBALS each quarter prior to rerunning program.
*************************************************************************;
%LET LSTCONUS = ..\..\..\Q3FY2006\Programs\Loadweb;

%LET PERIOD1 = 2005;
%LET PERIOD2 = 2006;
%LET PERIOD3 = 2007;
%LET DSN      = MERGFINC;

*************************************************************************;
* Set up empty template file for data merge purposes and set first time flag
*************************************************************************;
DATA INIT;
   SET IN1.&DSN;
   DELETE;
RUN;
%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=,BENEFIT=);
```

```
DATA TEMP;
   SET IN1.&DSN END=FINISHED;
   WHERE BENTYPE = "&BENTYPE" AND
         BENEFIT = "&BENEFIT" AND
         MAJGRP = "&MAJGRP";

RUN;

*********************************************************************;
* RSG 01/2005 Calc. Total CONUS Scores                              *;
*********************************************************************;
DATA TEMP4;
   SET TEMP END=FINISHED;
   length key $200;
   IF _N_ = 1 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;
   ********************************************************************
   * Note: For the Child Survey only CONUS were sent surveys
   *********************************************************************;
   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 FINISHED THEN GOTO FINISHED;
   RETURN;

KEEP MAJGRP REGION REGCAT BENTYPE BENEFIT TIMEPD SIG SCORE SEMEAN N_OBS N_WGT
     FLAG SOURCE SUMSCOR1 SUMWGT1 SUMSE2 SUMWGT2 KEY;   ***MJS 07/08/03 Added TIMEPD;

   FINISHED:
      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  = "CONUS";
      FLAG    = "CONUS";
      REGION = "CONUS MHS";
      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;
      OUTPUT;
RUN;

%IF &FLAG = 0 %THEN %DO;
   DATA FINAL;
      SET INIT TEMP4;
   RUN;
%END;
%ELSE %DO;
   DATA FINAL;
      SET FINAL TEMP4;
   RUN;
%END;
%LET FLAG = 1;

%MEND;

************************************************************************
* Create CONUS for Children 13-17 Years
************************************************************************;
%PROCESS(BENTYPE=Advice over Telephone                          ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);
```

```
    %PROCESS(BENTYPE=Make Easy To Discuss Questions                  ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Get Information Needed From Doctor              ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Courteous and Respectful                        ,MAJGRP=Children 13-17 Years,
BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Delays in Care While Awaiting Approval          ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Explains so you can Understand                  ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Explains so your child can Understand           ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Helpful                                         ,MAJGRP=Children 13-17 Years,
BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Listens Carefully                               ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Problem  Finding/Understanding  Written  Material,MAJGRP=Children  13-17  Years,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem Getting Help from Customer Service     ,MAJGRP=Children 13-17 Years,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem with Paperwork                          ,MAJGRP=Children 13-17 Years,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problems Getting Necessary Care                 ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse          ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting to See Specialist              ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Shows Respect                                   ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Spends Time with your child                      ,MAJGRP=Children 13-17 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Wait for Urgent Care                            ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait in Doctor`s Office                         ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait for Routine Visit                          ,MAJGRP=Children 13-17 Years,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Questions Answered By Doctor                    ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Doctor Involves Parent In Decision              ,MAJGRP=Children 13-17 Years,
BENEFIT=Involving Parents);

    ***************************************************************************
    * Create CONUS for Children 6-12 Years
    ***************************************************************************;
    %PROCESS(BENTYPE=Advice over Telephone                           ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Make Easy To Discuss Questions                  ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Get Information Needed From Doctor              ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Courteous and Respectful                        ,MAJGRP=Children 6-12 Years,
BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Delays in Care While Awaiting Approval          ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Explains so you can Understand                  ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Explains so your child can Understand           ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Helpful                                         ,MAJGRP=Children 6-12 Years,
BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Listens Carefully                               ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Problem  Finding/Understanding  Written  Material,MAJGRP=Children  6-12  Years,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem Getting Help from Customer Service     ,MAJGRP=Children 6-12 Years,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem with Paperwork                          ,MAJGRP=Children 6-12 Years,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problems Getting Necessary Care                 ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse          ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
```

```
     %PROCESS(BENTYPE=Problems Getting to See Specialist              ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Shows Respect                                   ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Spends Time with your child                      ,MAJGRP=Children 6-12 Years,
BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Wait for Urgent Care                            ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Wait in Doctor`s Office                         ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Wait for Routine Visit                          ,MAJGRP=Children 6-12 Years,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Questions Answered By Doctor                    ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Doctor Involves Parent In Decision              ,MAJGRP=Children 6-12 Years,
BENEFIT=Involving Parents);

     ***************************************************************************
     * Create CONUS for Enrollees with Civilian PCM
     ***************************************************************************;
     %PROCESS(BENTYPE=Advice over Telephone                          ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Make Easy To Discuss Questions                 ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Get Information Needed From Doctor             ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Courteous and Respectful                       ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Courteous and Helpful Office Staff);
     %PROCESS(BENTYPE=Delays in Care While Awaiting Approval         ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Explains so you can Understand                 ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Explains so your child can Understand          ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Helpful                                        ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Courteous and Helpful Office Staff);
     %PROCESS(BENTYPE=Listens Carefully                              ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problem Getting Help from Customer Service     ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problem with Paperwork                         ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problems Getting Necessary Care                ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse         ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Problems Getting to See Specialist             ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Shows Respect                                  ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Spends Time with your child                     ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Wait for Urgent Care                           ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Wait in Doctor`s Office                        ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Wait for Routine Visit                         ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Questions Answered By Doctor                   ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Doctor Involves Parent In Decision             ,MAJGRP=Enrollees with Civilian
PCM, BENEFIT=Involving Parents);

     ***************************************************************************
     * Create CONUS for Enrollees with Military PCM - Individual
     ***************************************************************************;
     %PROCESS(BENTYPE=Advice over Telephone                          ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Make Easy To Discuss Questions                 ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Get Information Needed From Doctor             ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Involving Parents);
```

```
    %PROCESS(BENTYPE=Courteous and Respectful                       ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Delays in Care While Awaiting Approval         ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Explains so you can Understand                 ,MAJGRP=Enrollees with Military
PCM, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Explains so your child can Understand          ,MAJGRP=Enrollees with Military
PCM, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Helpful                                        ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Listens Carefully                              ,MAJGRP=Enrollees with Military
PCM, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Enrollees with Military
PCM, BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem Getting Help from Customer Service     ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem with Paperwork                         ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problems Getting Necessary Care                ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse         ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting to See Specialist             ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Shows Respect                                  ,MAJGRP=Enrollees with Military
PCM, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Spends Time with your child                     ,MAJGRP=Enrollees with Military
PCM, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Wait for Urgent Care                           ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait in Doctor`s Office                        ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait for Routine Visit                         ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Questions Answered By Doctor                   ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Doctor Involves Parent In Decision             ,MAJGRP=Enrollees with Military
PCM, BENEFIT=Involving Parents);

    ***************************************************************************
    * Create CONUS for Non-enrolled Beneficiaries - Individual
    ***************************************************************************;
    %PROCESS(BENTYPE=Advice over Telephone                                  ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Make Easy To Discuss Questions                         ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Get Information Needed From Doctor                     ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Courteous and Respectful                               ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Delays in Care While Awaiting Approval                 ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Explains so you can Understand                         ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Explains so your child can Understand                  ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Helpful                                                ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Listens Carefully                                      ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem Getting Help from Customer Service             ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem with Paperwork                                 ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problems Getting Necessary Care                        ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse                 ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting to See Specialist                     ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Shows Respect                                          ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=How Well Doctors Communicate);
```

```
    %PROCESS(BENTYPE=Spends Time with your child                          ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Wait for Urgent Care                                ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait in Doctor`s Office                             ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait for Routine Visit                              ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Questions Answered By Doctor                        ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Doctor Involves Parent In Decision                  ,MAJGRP=Non-enrolled
Beneficiaries, BENEFIT=Involving Parents);

    ***************************************************************************
    * Create CONUS for Prime Enrollees - Individual
    ***************************************************************************;
    %PROCESS(BENTYPE=Advice over Telephone                              ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Make Easy To Discuss Questions                     ,MAJGRP=Prime Enrollees,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Get Information Needed From Doctor                 ,MAJGRP=Prime Enrollees,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Courteous and Respectful                           ,MAJGRP=Prime Enrollees,
BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Delays in Care While Awaiting Approval             ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Explains so you can Understand                     ,MAJGRP=Prime Enrollees,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Explains so your child can Understand              ,MAJGRP=Prime Enrollees,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Helpful                                            ,MAJGRP=Prime Enrollees,
BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Listens Carefully                                  ,MAJGRP=Prime Enrollees,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Problem   Finding/Understanding   Written   Material,MAJGRP=Prime   Enrollees,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem Getting Help from Customer Service       ,MAJGRP=Prime Enrollees,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problem with Paperwork                             ,MAJGRP=Prime Enrollees,
BENEFIT=Customer Service);
    %PROCESS(BENTYPE=Problems Getting Necessary Care                    ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse             ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Problems Getting to See Specialist                 ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Needed Care);
    %PROCESS(BENTYPE=Shows Respect                                      ,MAJGRP=Prime Enrollees,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Spends Time with your child                         ,MAJGRP=Prime Enrollees,
BENEFIT=How Well Doctors Communicate);
    %PROCESS(BENTYPE=Wait for Urgent Care                               ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait in Doctor`s Office                            ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Wait for Routine Visit                             ,MAJGRP=Prime Enrollees,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Questions Answered By Doctor                       ,MAJGRP=Prime Enrollees,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Doctor Involves Parent In Decision                 ,MAJGRP=Prime Enrollees,
BENEFIT=Involving Parents);

    ***************************************************************************
    * Create CONUS for Children Under Age 6 - Individual
    ***************************************************************************;
    %PROCESS(BENTYPE=Advice over Telephone                          ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Care Quickly);
    %PROCESS(BENTYPE=Make Easy To Discuss Questions                 ,MAJGRP=Children Under Age 6,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Get Information Needed From Doctor             ,MAJGRP=Children Under Age 6,
BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Courteous and Respectful                       ,MAJGRP=Children Under Age 6,
BENEFIT=Courteous and Helpful Office Staff);
    %PROCESS(BENTYPE=Delays in Care While Awaiting Approval         ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Needed Care);
```

```
     %PROCESS(BENTYPE=Explains so you can Understand                  ,MAJGRP=Children Under Age 6,
BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Explains so your child can Understand           ,MAJGRP=Children Under Age 6,
BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Helpful                                         ,MAJGRP=Children Under Age 6,
BENEFIT=Courteous and Helpful Office Staff);
     %PROCESS(BENTYPE=Listens Carefully                               ,MAJGRP=Children Under Age 6,
BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=Children Under Age 6,
BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problem Getting Help from Customer Service     ,MAJGRP=Children Under Age 6,
BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problem with Paperwork                          ,MAJGRP=Children Under Age 6,
BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problems Getting Necessary Care                 ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse          ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Problems Getting to See Specialist              ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Shows Respect                                   ,MAJGRP=Children Under Age 6,
BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Spends Time with your child                      ,MAJGRP=Children Under Age 6,
BENEFIT=How Well Doctors Communicate);
     %PROCESS(BENTYPE=Wait for Urgent Care                            ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Wait in Doctor`s Office                         ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Wait for Routine Visit                          ,MAJGRP=Children Under Age 6,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Questions Answered By Doctor                    ,MAJGRP=Children Under Age 6,
BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Doctor Involves Parent In Decision              ,MAJGRP=Children Under Age 6,
BENEFIT=Involving Parents);

     ***************************************************************************
     * Create CONUS for All Beneficiaries - Individual
     ***************************************************************************;
     %PROCESS(BENTYPE=Advice over Telephone                                  ,MAJGRP=CONUS MHS,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Make Easy To Discuss Questions                         ,MAJGRP=CONUS MHS,
BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Get Information Needed From Doctor                     ,MAJGRP=CONUS MHS,
BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Courteous and Respectful                               ,MAJGRP=CONUS MHS,
BENEFIT=Courteous and Helpful Office Staff);
     %PROCESS(BENTYPE=Delays in Care While Awaiting Approval                 ,MAJGRP=CONUS MHS,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Explains so you can Understand                  ,MAJGRP=CONUS MHS, BENEFIT=How
Well Doctors Communicate);
     %PROCESS(BENTYPE=Explains so your child can Understand           ,MAJGRP=CONUS MHS, BENEFIT=How
Well Doctors Communicate);
     %PROCESS(BENTYPE=Helpful                                                ,MAJGRP=CONUS MHS,
BENEFIT=Courteous and Helpful Office Staff);
     %PROCESS(BENTYPE=Listens Carefully                               ,MAJGRP=CONUS MHS, BENEFIT=How
Well Doctors Communicate);
     %PROCESS(BENTYPE=Problem Finding/Understanding Written Material,MAJGRP=CONUS MHS,
BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problem Getting Help from Customer Service          ,MAJGRP=CONUS MHS,
BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problem with Paperwork                                 ,MAJGRP=CONUS MHS,
BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Problems Getting Necessary Care                        ,MAJGRP=CONUS MHS,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Problems Getting Personal Doctor/Nurse                 ,MAJGRP=CONUS MHS,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Problems Getting to See Specialist                     ,MAJGRP=CONUS MHS,
BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Shows Respect                                  ,MAJGRP=CONUS MHS, BENEFIT=How
Well Doctors Communicate);
     %PROCESS(BENTYPE=Spends Time with your child                     ,MAJGRP=CONUS MHS, BENEFIT=How
Well Doctors Communicate);
     %PROCESS(BENTYPE=Wait for Urgent Care                                   ,MAJGRP=CONUS MHS,
BENEFIT=Getting Care Quickly);
```

```
     %PROCESS(BENTYPE=Wait  in  Doctor`s  Office                                  ,MAJGRP=CONUS  MHS,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Wait  for  Routine  Visit                                   ,MAJGRP=CONUS  MHS,
BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Questions  Answered  By  Doctor                             ,MAJGRP=CONUS  MHS,
BENEFIT=Involving Parents);
     %PROCESS(BENTYPE=Doctor  Involves  Parent  In  Decision                      ,MAJGRP=CONUS  MHS,
BENEFIT=Involving Parents);

     ***************************************************************************
     * Process Quarterly CONUS Composites
     ***************************************************************************
     ***************************************************************************
     * Create CONUS for Courteous and Helpful Office Staff
     ***************************************************************************;
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years          ,BENEFIT=Courteous and Helpful
Office Staff);   ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years           ,BENEFIT=Courteous and Helpful
Office Staff);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Courteous and Helpful
Office Staff);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Courteous and Helpful
Office Staff);
     %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Courteous and Helpful
Office Staff);
     %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees               ,BENEFIT=Courteous and Helpful
Office Staff);
     %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6          ,BENEFIT=Courteous and Helpful
Office Staff);
     %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                     ,BENEFIT=Courteous and Helpful
Office Staff);

     ***************************************************************************
     * Create CONUS for Customer Service
     ***************************************************************************;
     %PROCESS(BENTYPE=Composite,  MAJGRP=Children  13-17  Years            ,BENEFIT=Customer  Service);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years          ,BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees              ,BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6         ,BENEFIT=Customer Service);
     %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                    ,BENEFIT=Customer Service);

     ***************************************************************************
     * Create CONUS for Getting Care Quickly
     ***************************************************************************;
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years         ,BENEFIT=Getting Care Quickly);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years          ,BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees              ,BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6         ,BENEFIT=Getting Care Quickly);
     %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                    ,BENEFIT=Getting Care Quickly);

     ***************************************************************************
     * Create CONUS for Getting Needed Care
     ***************************************************************************;
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years          ,BENEFIT=Getting Needed Care);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years          ,BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees              ,BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6         ,BENEFIT=Getting Needed Care);
     %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                    ,BENEFIT=Getting Needed Care);

     ***************************************************************************
     * Create CONUS for Health Care
     ***************************************************************************;
```

```
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years         ,BENEFIT=Health Care);   ***MJS
07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years          ,BENEFIT=Health Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Health Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Health Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Health Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees              ,BENEFIT=Health Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6         ,BENEFIT=Health Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                    ,BENEFIT=Health Care);

    ***************************************************************************
    * Create CONUS for Health Plan
    ***************************************************************************;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years         ,BENEFIT=Health Plan);   ***MJS
07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years          ,BENEFIT=Health Plan);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Health Plan);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Health Plan);
    %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Health Plan);
    %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees              ,BENEFIT=Health Plan);
    %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6         ,BENEFIT=Health Plan);
    %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                    ,BENEFIT=Health Plan);

    ***************************************************************************
    * Create CONUS for How Well Doctors Communicate
    ***************************************************************************;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years             ,BENEFIT=How Well Doctors
Communicate);   ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years              ,BENEFIT=How Well Doctors
Communicate);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM    ,BENEFIT=How Well Doctors
Communicate);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM    ,BENEFIT=How Well Doctors
Communicate);
    %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries     ,BENEFIT=How Well Doctors
Communicate);
    %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees                  ,BENEFIT=How Well Doctors
Communicate);
    %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6             ,BENEFIT=How Well Doctors
Communicate);
    %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                        ,BENEFIT=How Well Doctors
Communicate);

    ***************************************************************************
    * Create CONUS for Specialty Care
    ***************************************************************************;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years             ,BENEFIT=Specialty Care);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years          ,BENEFIT=Specialty Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Specialty Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Specialty Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Specialty Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees              ,BENEFIT=Specialty Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6         ,BENEFIT=Specialty Care);
    %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                    ,BENEFIT=Specialty Care);

    ***************************************************************************
    * Create CONUS for Involving Parents
    ***************************************************************************;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years           ,BENEFIT=Involving Parents);
***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years          ,BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM  ,BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM  ,BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries   ,BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees              ,BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6         ,BENEFIT=Involving Parents);
    %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                    ,BENEFIT=Involving Parents);

    ***************************************************************************
    * Create CONUS for Personal Doctor/Nurse
    ***************************************************************************;
    %PROCESS(BENTYPE=Composite, MAJGRP=Children 13-17 Years           ,BENEFIT=Personal Doctor or
Nurse);   ***MJS 07/08/03 Changed BENTYPE="&PERIOD4" to BENTYPE=Composite;
```

```
     %PROCESS(BENTYPE=Composite, MAJGRP=Children 6-12 Years            ,BENEFIT=Personal Doctor or
Nurse);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Civilian PCM   ,BENEFIT=Personal Doctor or
Nurse);
     %PROCESS(BENTYPE=Composite, MAJGRP=Enrollees with Military PCM   ,BENEFIT=Personal Doctor or
Nurse);
     %PROCESS(BENTYPE=Composite, MAJGRP=Non-enrolled Beneficiaries    ,BENEFIT=Personal Doctor or
Nurse);
     %PROCESS(BENTYPE=Composite, MAJGRP=Prime Enrollees                ,BENEFIT=Personal Doctor or
Nurse);
     %PROCESS(BENTYPE=Composite, MAJGRP=Children Under Age 6           ,BENEFIT=Personal Doctor or
Nurse);
     %PROCESS(BENTYPE=Composite, MAJGRP=CONUS MHS                      ,BENEFIT=Personal Doctor or
Nurse);

     ***************************************************************************
     * Extract ORDER and KEY from the WEB Layout file.  TEMPQ will be used
     * as place holders for missing records.  FAKEQ will be used for adding
     * new records.
     ***************************************************************************;
     DATA FAKEC;
        SET IN1.FAKEC;
        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;

     RUN;
     PROC SORT DATA=FAKEC OUT=TEMPC;       BY KEY; RUN;
     PROC SORT DATA=FAKEC(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;
       IF REGION = "Benchmark";
     RUN;
     Data abnchmrk(keep=benefit bentype ascore);
     set benchmrk;
     where upcase(majgrp)='CONUS MHS';
     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_C;
        MERGE FINAL(IN=IN1) FAKEC(IN=IN2);
        BY KEY;
        IF IN1;
     RUN;
     PROC SORT DATA=CONUS_C; BY MAJGRP BENEFIT BENTYPE; RUN;

     ***************************************************************************
     * Perform significance tests for CONUS scores
     ***************************************************************************;
     DATA SIGTEST1;
        MERGE CONUS_C(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;


       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;
       SOURCE = "CONUS_C";
       FLAG   = "CONUS_C";
       IF BENEFIT NOT IN ("Involving Parents") THEN DO;
          *KRR 10/09/2007 - No benchmark for Involving Parents;
          score=score+ascore-bscore;
       END;
       IF SIN;
    RUN;
    PROC SORT DATA=SIGTEST1; BY KEY; RUN;

    ***************************************************************************
    * Extract CAHPS scores to perform significance tests
    ***************************************************************************;
    DATA CAHPS bench;
       SET IN1.&DSN;
        if MAJGRP ne 'Benchmark' then OUTPUT CAHPS;
        else output bench;
    RUN;


    PROC SORT DATA=CAHPS;
       BY MAJGRP BENEFIT BENTYPE;
    RUN;

    ***************************************************************************
    * 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 AND TEST NE . THEN SIG = 1;
       IF SCORE < BSCORE THEN SIG = -SIG;
       IF SIN;

       IF BENEFIT NOT IN ("Involving Parents") THEN DO;
          *KRR 10/09/2007 - No benchmark for Involving Parents;
         score=score+ascore-bscore;
       END;
       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 LASTQTR;
       ************************************************************************
       * Input composite records from previous quarters.
       ************************************************************************;
       LIBNAME IN2 "&LSTCONUS";
       DATA LASTQTR;
          SET IN2.CONUS_C (DROP=KEY);

          IF timepd = "&PERIOD1" OR "&PERIOD2" AND
            (REGION = REGCAT) AND
             BENEFIT IN ("Getting Needed Care",
                         "Getting Care Quickly",
                         "How Well Doctors Communicate",
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                    "Courteous and Helpful Office Staff",
                    "Customer Service",
                    "Involving Parents",
                    "Health Care",
                    "Health Plan",
                    "Personal Doctor or Nurse",
                    "Specialty Care") & TIMEPD NE "Trend";

    KEY = UPCASE(TRIM(BENEFIT)) || UPCASE(TRIM(BENTYPE)) ||
            UPCASE(TRIM(MAJGRP))  || UPCASE(TRIM(REGCAT))  ||
            UPCASE(TRIM(REGION))  || UPCASE(TRIM(TIMEPD));

   RUN;
%MEND LASTQTR;
%LASTQTR;
PROC SORT DATA=LASTQTR(DROP=ORDER); BY KEY; RUN;

DATA LASTQTR;
   MERGE TEMPC(IN=IN1) LASTQTR(IN=IN2);
   BY KEY;
   IF IN1 AND IN2;
RUN;

*************************************************************************
* Combine previously created records with the new file
*************************************************************************;
DATA COMBINE OUT.LT30C;
   SET SIGTEST1 SIGTEST2 LASTQTR;
   BY KEY;
   if timepd="&period1" then period=1;   ***MJS 07/08/03 Changed from bentype="&period1";
   if timepd="&period2" then period=2;   ***MJS 07/08/03 Changed from bentype="&period2";
   if timepd="&period3" then period=3;   ***JSO 09/26/06 Added timepd for period 3      ;
   ***********************************************************************
   * 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.LT30C;
                       ELSE OUTPUT COMBINE;
RUN;

*************************************************************************
* Create place holders for missing records
*************************************************************************;
DATA FAKEONLY;
   MERGE COMBINE(IN=IN1) TEMPC(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_C;
   SET FAKEONLY COMBINE;
   BY KEY;
   ***********************************************************************
   * Convert CAHPS Composites and Individual to 1-100 scale
   ***********************************************************************;
   IF timepd="Trend" OR timepd="&PERIOD3" then SCORE = SCORE*100;
RUN;

PROC SORT DATA=CONUS_C; BY ORDER; RUN;

DATA FAKEC;
   SET IN1.FAKEC;
   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 07/31/03 Added TIMEPD;

RUN;
PROC SORT DATA=FAKEC OUT=TEMPC;       BY KEY; RUN;
PROC SORT DATA=FAKEC(KEEP=ORDER KEY); BY KEY; RUN;

PROC SORT DATA=CONUS_C out=CONUS_C;
BY KEY;
RUN;

***************************************************************************
* Extract records to calculate TRENDs.  Keep only 2001/2003 pairs for CAHPS
* records.  Trends have already been calculated for MPR scores.
***************************************************************************;

DATA TRENDS;
   SET CONUS_C;
   WHERE TIMEPD IN ("&period1.", "&period2.", "&period3."); /*CDR 2/08/2004 */
RUN;

/* CDR 2/08/2004  Changed from 2000,2002 to 2001,2003*/

DATA TEMP_1;
   SET TRENDS;
   KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE ;
   IF TIMEPD = "&period1.";
RUN;
PROC SORT DATA=TEMP_1; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA TEMP_2;
   SET TRENDS;
   KEEP MAJGRP REGION REGCAT BENEFIT BENTYPE;
   IF TIMEPD = "&period3.";
RUN;
PROC SORT DATA=TEMP_2; BY MAJGRP REGION REGCAT BENEFIT BENTYPE; RUN;

DATA PAIR(keep=majgrp region regcat benefit bentype);
   MERGE TEMP_1(IN=IN01) TEMP_2(IN=IN02);
   BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
   IF IN01 AND IN02;
RUN;

PROC SORT DATA=TRENDS;
   BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
RUN;

DATA TRENDS2;
   MERGE TRENDS(IN=INTREND) PAIR(IN=INPAIR);
   BY MAJGRP REGION REGCAT BENEFIT BENTYPE;
   IF INTREND AND INPAIR;
RUN;

PROC SORT DATA=TRENDS2;
   BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
RUN;
  proc print data=trends2(obs=100);RUN;
***************************************************************************
* Calculate TRENDs keeping only the TREND records
***************************************************************************;

/* CDR 2/08/2004 - Changed from 2000,2002 to 2001,2003 */

DATA TRENDS3 bench;
   SET TRENDS2(drop=bscore bsemean);
   BY MAJGRP REGION REGCAT BENEFIT BENTYPE TIMEPD;
   IF TIMEPD = "&period1." THEN DO;
      SCORE1 = SCORE/100;
      SE01    = SEMEAN;
      N1     = N_OBS;
      W1     = N_WGT;
   END;
   RETAIN SCORE1 SE01 N1 W1;
   IF TIMEPD = "&period3." THEN DO;
```

```
      SCORE2 = SCORE/100;
      SE02    = SEMEAN;
      N2     = N_OBS;
      W2     = N_WGT;
   END;
   RETAIN SCORE2 SE02 N2 W2;
   LENGTH KEY $200.;
   IF TIMEPD = "&period3." 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(SE01**2+SE02**2);
      N_OBS  = MIN(N1,N2);
      N_WGT  = MIN(W1,W2);
      SCORE  = SCORE2-SCORE1;
      DSCORE = 100*(SCORE2-SCORE1);
      if region='Benchmark' then OUTPUT bench;
      else output trends3;
   END;
   DROP ORDER SCORE1 SCORE2 SE01 SE02 N1 N2;
RUN;


PROC SORT DATA=trends3;
   BY MAJGRP BENEFIT BENTYPE TIMEPD;
RUN;
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 trends4;
   MERGE trends3(IN=SIN) BENCHs(RENAME=(SCORE=BSCORE SEMEAN=BSEMEAN));
   BY MAJGRP BENEFIT BENTYPE;
   if bsemean=. then bsemean=0;
   TEMP = (SCORE-BSCORE)/SQRT(BSEMEAN**2+SEMEAN**2);
   TEST = 2*(1-PROBT(ABS(TEMP),N_OBS-1));
   SIG = 0;
   IF N_OBS >= 30 AND TEST < 0.05 AND TEST NE . THEN SIG = 1;
   IF SCORE < BSCORE THEN SIG = -SIG;
   IF SIN;
RUN;

data trends5;
set trends4 bench;
score=dscore;
PROC SORT DATA=TRENDS5; BY KEY; RUN;

*************************************************************************
* Construct ORDERing variable from WEB layout
* (RSG 02/2005 add fix to order it properly
*************************************************************************;
DATA ORDER;
 SET IN1.FAKEC;
   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;
RUN;

PROC SORT DATA=ORDER; BY KEY; RUN;

DATA MERGTRND;
   MERGE TRENDS5(IN=IN1) ORDER(IN=IN2);
   BY KEY;
   IF IN1 and in2;
RUN;
```

```
PROC SORT DATA=CONUS_C OUT=CONUS_C; by key;run;
data conus_c;
     merge conus_c order(in=gin); by key;
     if gin;
proc sort data=CONUS_C; by order;
PROC SORT DATA=MERGTRND; BY ORDER; RUN;

DATA OUT.CONUS_C;
   update MERGTRND CONUS_C;
   BY ORDER;
RUN;

PROC SORT DATA=ORDER; BY ORDER; RUN;

DATA TOTAL_C;
   MERGE ORDER OUT.CONUS_C;
   BY ORDER;
RUN;

PROC SORT DATA=TOTAL_C OUT=OUT.TOTAL_C; BY ORDER; RUN;

TITLE1 "Child DOD Health Survey Scores/Report Cards (6244-410)";
TITLE2 "Program Name: CONUS_Q.SAS By Keith Rathbun";
TITLE3 "Program Inputs: MERGFINQ.SD2 - Scores Database in WEB Layout";
TITLE4 "Program Outputs: TOTAL_Q.SD2 - CONUS Scores Database in WEB layout";

PROC FREQ;
TABLES SIG FLAG SOURCE BENEFIT BENTYPE MAJGRP REGION REGCAT TIMEPD    /*MJS 07/08/03 Added
TIMEPD*/
       REGION*REGCAT
      /MISSING LIST;
RUN;
```

G.20 LOADWEB\MAKEHTMC.SAS - GENERATE HTML AND XLS FILES FOR CHILD BENEFICIARY REPORTS.

```
*====================================================================;
*   Programmer:  Mark A. Brinkley                                    ;
*        Title:  MAKEHTMC.SAS                                        ;
*       Client:  6244-410 ;
*         Date:  06-01-2001                                          ;
*           ;
*      Purpose:  This program is designed to create                  ;
*                 report cards for the 2000 DOD project              ;
*           ;
*           ;
*  Input files:  TOTAL_QR.SD2                                        ;
* Output files:  HTML\    ;
*                  1269*3 F*.HTM Files (Frame version)               ;
*                  1269  P*.HTM Files (Printer friendly - no frames)  ;
*                    P*.XLS Files (Excel files)                      ;
*                 -------------------                                ;
*           ;
*           ;
*           ;
*   ÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!   ;
*           ;
*     IF YOU MODIFY THIS PROGRAM THEN PLEASE INITIAL AND DOCUMENT     ;
*     YOUR CHANGES.  THOSE FAILING TO DO THIS WILL BE SEVERELY        ;
*     BEATEN.       ;
*           ;
*   ÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!ÛÛÛ!   ;
*           ;
*           ;
*           ;
* 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 Behavior (which replaced     ;
*              Smoking Cessation)                                     ;
* 07-20-2005 - Regina Gramss - converted to create Child Ben Reports  ;
* 10-09-2007 - Keith Rathbun - Updated for 2007 Child Ben Reports.    ;
*              Deleted Special Needs.                                 ;
*           ;
* NOTE: Update only SRCYR1, SRCYR2, PERIOD1/2/3, and CURRENTPERIOD.   ;
*=====================================================================;

%LET SRCYR1 = 2006;   *** Previous year;
%LET SRCYR2 = 2007;   *** Current year;
```

```
/*** Added macro variables for previous periods (MAB 6-19-2002) ***/
%LET PERIOD2 = 2006;                    /*JSO 10/12/06 Report on 2 periods this year*/
%LET PERIOD1 = 2005;                    /*RSG 07/20/05 Report only on 2 periods this year*/

/*** Change name of macro variable from PERIOD (MAB 6-19-2002) ***/
%LET CURRENTPERIOD = 2007;              /** Current Period of these reports **/
%LET QTRS=3;                            /** Yrs of these reports    **/


OPTIONS NOXWAIT ;        /* 2000/11: added noxwait*/


%LET HTMLSP=%NRSTR( );     /**DANIELE CHANGED %STR( ) TO %NRSTR( )**/
%LET QUOTE=%STR("");
%LET  OUTDIR=CHILDHTML\CHILD;                      /** Directory to put HTML files **/   /*MJS
01/28/04 Set to HTML*/
%LET IMGDIR=images;               /** Directory with images **/
%LET TARGET=target='_parent';     /** HTML code for frames targeting **/
%LET OUTXLS=1;                    /** 1=Make XLS file/0=Don't   Added 1-24 MAB **/
%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 **/

%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();


     PUT "<tr>";
     PUT   "             <td   colspan='&columns.'><font   face='Arial,Helvetica,Swiss,Geneva'
size='2'>Source: &SRCYR2 Health Care Survey of DOD Beneficiaries</font>";   ***MJS 03/24/04 Changed
hard-coded year to m
     PUT "    <font face='Arial,Helvetica,Swiss,Geneva' size='2' color='#009933'><br>";
     PUT "    <b>Indicates score significantly exceeds benchmark</b></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>";

    %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
        PUT  "      <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>";
     PUT  "       <center><a  href='&hrefxls.'><img  src='&imgdir.\excel.gif'  border=0>Download
Page</a></center>";


%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 V612 '.'  ACCESS=READONLY;

    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                            ****/
    /****               2/2nd separate page                            ****/
    /*******************************************************************/
    /** RSG 08/07/03 - added var4 to add extra dimension of page numbers for
        sub benefit trend pages**/

    /** Load in data **/   ***MJS 05/13/04;
    DATA PRE_SUBSET (RENAME=(GROUP=MAJGRP REGION2=REGION REGCAT2=REGCAT));
      SET SRC1.TOTAL_C;

      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);         ***DKB ADDED 8/13/2002 to
avoid negative zero values;

      IF BENTYPE="Problems Getting Referral to Specialist" THEN        /*MJS 5/7/04 Changed label*/
        BENTYPE="Problems Getting to See Specialist";

      IF MAJGRP = "CONUS MHS" THEN MAJGRP = "All Children";

      LENGTH GROUP $30. REGION2 $30. REGCAT2 $30.;
      GROUP=REGION;
      REGION2=MAJGRP;
      REGCAT2=MAJGRP;

      DROP MAJGRP REGION REGCAT;

      IF TIMEPD = "&PERIOD1." OR TIMEPD = "&PERIOD2." OR TIMEPD = "&CURRENTPERIOD." OR TIMEPD =
"Trend";

    RUN;

    %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(CONUS MHS);
      %if &var1.=2 %then %let major=%STR(North);
      %if &var1.=3 %then %let major=%STR(South);
      %if &var1.=4 %then %let major=%STR(West);


      %if &var1.=0 %then %do;
    /**     %if &var2.^=99 %then %do;
            IF SUBSTR(REGION,1,5)="CONUS MHS" THEN DELETE;
         %end;*/

         %let comma=%STR();
         %let grpmsg=%STR();
      %end;
      %else %do;
         IF MAJGRP="&major.";    /*** Subset data by major group ***/
         %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
**/
       FILEOUT2=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.a.htm");   /** Header html
**/
       FILEOUT3=COMPRESS("&outdir.\&prefix.&var1.-&var2.-&var3.-&var4.&q.b.htm");     /** Data html
**/
       /*** 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 */
```

```
      CALL SYMPUT('fileoutX',FILEOUTX);                                  /* via global macro vars
*/
      %if &seppage. ne 2 %then %do;
      TEMPLATE=COMPRESS("ChildTemplates\Template&var3..xls");
      %end;
      %else %do;
              TEMPLATE=COMPRESS("ChildTemplates\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;           /*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);
    RUN;

    DATA SUBSET2;
      SET SUBSET;
    /*  %if &var2.=0 %then %do;
         IF REGION=REGCAT;
          %let sub_regs=%STR(All Regions);
      %end;

      %else %if &var2.=1 %then %do;
         IF UPCASE(REGION)="CONUS MHS";
          %let sub_regs=%STR(CONUS 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);
      %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)="NORTH";
          %let sub_regs=%STR(NORTH);
      %end;
      %else %if &var2.=7 %then %do;
         IF UPCASE(REGION)="NORTH ARMY";
          %let sub_regs=%STR(North Army);
      %end;
      %else %if &var2.=8 %then %do;
         IF UPCASE(REGION)="NORTH NAVY";
          %let sub_regs=%STR(North Navy);
      %end;
```

```
  %else %if &var2.=9 %then %do;
     IF UPCASE(REGION)="NORTH AIR FORCE";
      %let sub_regs=%STR(North Air Force);
  %end;
  %else %if &var2.=10 %then %do;
     IF UPCASE(REGION)="NORTH OTHER";
      %let sub_regs=%STR(North Other);
  %end;
  %else %if &var2.=11 %then %do;
     IF UPCASE(REGION)="SOUTH";
      %let sub_regs=%STR(SOUTH);
  %end;
  %else %if &var2.=12 %then %do;
     IF UPCASE(REGION)="SOUTH ARMY";
      %let sub_regs=%STR(South Army);
  %end;

 %else %if &var2.=13 %then %do;
     IF UPCASE(REGION)="SOUTH NAVY";
      %let sub_regs=%STR(South Navy);
 %end;
 %else %if &var2.=14 %then %do;
     IF UPCASE(REGION)="SOUTH AIR FORCE";
      %let sub_regs=%STR(South Air Force);
 %end;
 %else %if &var2.=15 %then %do;
     IF UPCASE(REGION)="SOUTH OTHER";
      %let sub_regs=%STR(South Other);
 %end;
 %else %if &var2.=16 %then %do;
     IF UPCASE(REGION)="WEST";
      %let sub_regs=%STR(WEST);
 %end;

 %else %if &var2.=17 %then %do;
     IF UPCASE(REGION) = "WEST ARMY";
      %let sub_regs=%STR(West Army);
 %end;
 %else %if &var2.=18 %then %do;
     IF UPCASE(REGION) = "WEST NAVY";
      %let sub_regs=%STR(West Navy);
 %end;
 %else %if &var2.=19 %then %do;
     IF UPCASE(REGION) = "WEST AIR FORCE";
      %let sub_regs=%STR(West Air Force);
 %end;
 %else %if &var2.=20 %then %do;
     IF UPCASE(REGION) = "WEST OTHER";
      %let sub_regs=%STR(West Other);
 %end;
 %else %if &var2.=21 %then %do;
     IF UPCASE(REGION) = "OVERSEAS";
      %let sub_regs=%STR(OVERSEAS);
 %end;
 %else %if &var2.=22 %then %do;
     IF UPCASE(REGION) = "OVERSEAS ARMY";
      %let sub_regs=%STR(Overseas Army);
 %end;
 %else %if &var2.=23 %then %do;
     IF UPCASE(REGION) = "OVERSEAS NAVY";
      %let sub_regs=%STR(Overseas Navy);
 %end;
 %else %if &var2.=24 %then %do;
     IF UPCASE(REGION) = "OVERSEAS AIR FORCE";
      %let sub_regs=%STR(Overseas Air Force);
 %end;
 %else %if &var2.=25 %then %do;
     IF UPCASE(REGION) = "OVERSEAS OTHER";
      %let sub_regs=%STR(Overseas Other);
 %end; */
RUN;


/*** 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.";
       %end;
       %else %if &var3.=1 %then %do;   ***MJS 4/23/03 Changed 2 to 1;
          IF BENEFIT="Getting Needed Care";

          /*** # of columns for this benefit table ***/
          %let columns=%EVAL(5+&qtrs.);
       %end;
       %else %if &var3.=2 %then %do;
          IF BENEFIT="Getting Care Quickly";
          %let columns=%EVAL(5+&qtrs.);
       %end;
       %else %if &var3.=3 %then %do;
          IF BENEFIT="How Well Doctors Communicate";
          %let columns=%EVAL(6+&qtrs.);
       %end;
       %else %if &var3.=4 %then %do;
          IF BENEFIT = "Courteous and Helpful Office Staff";
          %let columns=%EVAL(3+&qtrs.);
       %end;
       %else %if &var3.=5 %then %do;
          IF BENEFIT="Customer Service";
          %let columns=%EVAL(4+&qtrs.);
       %end;
       %else %if &var3.=6 %then %do;
          IF BENEFIT="Health Plan";
          %let columns=%EVAL(2+&qtrs.);
       %end;
       %else %if &var3.=7 %then %do;
          IF BENEFIT="Health Care";
          %let columns=%EVAL(2+&qtrs.);
       %end;
       %else %if &var3.=8 %then %do;
          IF BENEFIT="Personal Doctor or Nurse";
          %let columns=%EVAL(2+&qtrs.);
       %end;
       %else %if &var3.=9 %then %do;
          IF BENEFIT="Specialty Care";
          %let columns=%EVAL(2+&qtrs.);
       %end;
       %else %if &var3.=10 %then %do;
          IF BENEFIT = "Involving Parents";  ***RSG 07/25/2005 PLACEHOLDER;
          %let columns=%EVAL(5+&qtrs.);
       %end;
     /*  %else %if &var3.=11 %then %do;
          IF BENEFIT="Special Needs";
          %let columns=%EVAL(4+&qtrs.);
       %end;   KRR deleted Special Needs 10/09/2007 */

       /*** Set macro variable ***/
       %if &var3.=0 %then %do;
           %let sub_ben=%STR(&currentperiod. Composite Scores);
           %let columns=11;
       %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);               ***DKB CHANGED FROM -1 to -2 5/3/2002;

       /*** Determine number of columns less 1st (stub) column ***/
       %let columns_less1=%EVAL(&columns.-1);
     %put "qtrs = " &qtrs. " and columns = " &columns.;
     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="Courteous and Helpful Office Staff" AND
          BENTYPE="Composite" THEN WIDTH3=70;   ***DKB ADDED TREND 4/30/2002***;
         ***MJS 07/03/03 Changed from BENTYPE IN any period and Est. Quarterly Rate of Change;

       %if &var3.=0 %then %do;
          WIDTH_COL1=.;
              WIDTH3=40;
       %end;


             /*** Added 5-7-2001 mab ***/
             %if &prefix.=p %then %do;
                 WIDTH3=.;
             %end;

     RUN;


     /*****************************************************************/
     /****  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.7-0-0-0.htm");   ***MJS 05/06/03 Changed 8-0-0 to 7-0-0;
       %end;
       %else %do;
          HREFBACK=COMPRESS("&prefix.&var1.-0-0-0.htm");
       %end;

       /*** Create macro variable date with today's date ***/
       DATETIME=DATETIME();
       CALL SYMPUT ('DATETIME',left(put(datetime,datetime20.)));
       DROP DATETIME;

     RUN;

     /*** ÛÛ FRAMES SECTION ÛÛ ***/
     %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 OR &var3.=10 %then %do;   ***MJS 4/23/03 Changed 2&3 to 1&2;
              %let splitpixel=211;
         %end;
         %else %if &var3.=4 OR &var3.=3 %then %do;    ***MJS 4/23/03 Changed 4&7 to 3&6;   ***RSG
02/2005 Added var3=12;
              %let splitpixel=180;
         %end;
         %else %if &var3.=5 OR &var3.=11 %then %do;   ***MJS 4/23/03 Changed 6 to 5;
              %let splitpixel=210;
         %end;
```

```
        %else %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
             %let splitpixel=145;   ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;
        %end;
        %if &SEPPAGE.=2 %then %do;
             %let splitpixel=150;  ***RSG 01/12/2006 Changed from 157 to 220 since only have trend
for 2 years;
        %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>";
       RUN;


       /*** 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 "&major. &comma. &sub_ben.";
      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   */
    /*-------------------------*/




    /*ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ*/
    /*** 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*/

      *test = var3=0;

      IF _N_=1 THEN DO;

            FILE "&FILEOUT1." MOD;      /* 2000/11: moved file stmt inside if stmt */

             /*** put table title ***/
             /**PUT   "<h2><center><font   face='&fontface.'>&major.,   &sub_regs.   <br>   &sub_ben.
</font></center></h2>"**/

             /** MF Changes ROW 1 **/
             PUT     "<center><table     border='&border.'     cellpadding='2'     cellspacing='0'
bgcolor='#D8D8D8' colspan=13 width='&width1.'>";
             PUT "<tr bgcolor='white'>";
             PUT "     <td colspan='6' valign='top' bgcolor='#999999'><img border='0' height='25'
width='242' src=&logo.></td>";
             PUT "    <td colspan='7' align='right' valign='bottom' bgcolor='#999999'>";
             PUT "          <div align='right'>";
             PUT "             <a href='..\child\index.htm' &target.><img src=&home_but. border='0'
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.
border='0' alt='Return to Top Level'></a></noscript>";
             PUT "          &htmlsp. &htmlsp.";
             PUT "              <a  href='..\child\help.htm'  &target.><img  src=&help_but.  border='0'
alt='Help'></a></div>";
             PUT "    </td>";
             PUT "</tr>";

             /** MF Changes ROW 2 **/
             /** Modified 2-2 MAB to better align title **/
             PUT "<tr>";
             PUT "       <td valign='center' align='center' colspan='13' bgcolor='#D8D8D8'>";
    /*          PUT "                  <font  face='&fontface.'  color='#3333cc'  size='5'><b>&major.
&comma.  &sub_regs.<br>";*/
             PUT "                <font face='&fontface.' color='#3333cc' size='5'><b>&major.<br>";
             PUT "                 &sub_ben.</b></font>";
             PUT "       </td>";
             PUT "</tr>";


             /*** Print out 3rd row ***/
             /*** ÛÛ FRAMES SECTION ÛÛ ***/


              /***here***/

             %if &prefix=f %then %do;
                  PUT "<tr bgcolor= &hdcolr.>";
                        /**RSG  02/2005  add  in  a  dummy  gif  to  align  titles  and  comment  out  extra
cell**/
                  /**PUT "<td width=70>&htmlsp.</td>";**/
                  PUT  "<td  width=40  colspan=1><IMG  SRC='&imgdir.\dummy.gif'  ALT='Total  Score'
BORDER=0></td>";
                  PUT  "<td  width=80  colspan=2><IMG  SRC='&imgdir.\eoa.gif'ALT='Ease  of  Access'
BORDER=0></td>";
                  PUT     "<td     width=139     colspan=3><IMG     SRC='&imgdir.\com_cus_ser.gif'
ALT='Communication and Customer Service' BORDER=0></td>";
```

```
                  PUT   "<td   width=160   colspan=4><IMG   SRC='&imgdir.\ratings0.gif'   ALT='Parents
Ratings' BORDER=0></td>";
                  PUT "<td width=50 colspan=1><IMG SRC='&imgdir.\special_topics.gif' ALT='Special
Topics' BORDER=0></td>";
                  PUT "</tr>";
                  PUT "<tr bgcolor= &hdcolr.>";
              %end;
              %else %do;
                  PUT "<tr bgcolor= &hdcolr.>";
                  PUT "<td>&htmlsp.</td>";

                  /*** MAB rearranged 2/11/2005 ***/
                  PUT   "<td   align='center'   valign='bottom'   colspan=2><font   face='&fontface.'
size='2'><b>Ease of Access</b></font></td>";
                  PUT   "<td   align='center'   valign='bottom'   colspan=3><font   face='&fontface.'
size='2'><b>Communication and Customer Service</b></font></td>";
                  PUT   "<td   align='center'   valign='bottom'   colspan=4><font   face='&fontface.'
size='2'><b>Parents Ratings</b></font></td>";
                  PUT   "<td   align='center'   valign='bottom'   colspan=1><font   face='&fontface.'
size='2'><b>Special Topics</b></font></td>";
                  PUT "</tr>";
                  PUT "<tr bgcolor= &hdcolr.>";
              %end;


             /*** Print out 1st column of 4th row ***/
             /*** ÛÛ FRAMES SECTION ÛÛ ***/
             %if &prefix=f %then %do;
                 PUT "<td width=120>&htmlsp.</td>";
                 /**RSG 02/2005 Added in dummy gif to align title**/
             /*      PUT "<td align='center' valign='bottom'><IMG SRC='&imgdir.\dummy.gif'ALT=' '
BORDER=0>";*/
             %end;
             %else %do;
                 PUT "<td width='7%'><font face='&fontface.'>&htmlsp.</font></td>";
             %end;



             /*** MAB 2/11/2005 ***/
             bennum=1;  /** index to all 12 benefits **/



             /*-------------------------*/
             /* 2000/11: begin xls code */
             /*-------------------------*/
             %if &outxls.=1 %then %do;
               FILE XLSTITLE;
    /*           PUT "&major. &comma. &sub_regs.";*/
               PUT "&major.";
               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("..\child\&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 "<td align='center' valign='bottom'><IMG SRC='&imgdir.\image0_0.gif'
alt='Total' BORDER=0></td>";
         ELSE PUT "<td align='center' valign='bottom'><a href="""  HREF +(-1)  """  &target.><IMG
SRC='" IMAGE "' alt='" BENEFIT "' BORDER=0></a></td>";

       %end;
```

```
        %else %do;
          IF BENNUM=0 THEN PUT "<td width='7%' align='center' valign='bottom'><font
face='&fontface.'size='1'>" &HEADVAR. "</font></td>";
         ELSE PUT "<td width='7%' align='center' valign='bottom'><font face='&fontface.'size='1'><a
href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font></td>";
        %end;


       bennum+1;


       IF EOF THEN DO;
         PUT "</tr>";
         /***  2-2 MAB removed scale row ***/
       END;

     RUN;
     %end;

     /*ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ*/
     /*** 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;
                                    ***MJS 4/23/03 Changed 8/9/10/11 to 7/8/9/10;

     DATA _NULL_;
       SET HTML END=EOF;
       *LENGTH HREF $ 250;   /*MJS 01/29/04 Commented out statement*/

       *test seppage=0 or var3 in 6789;

       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 "<tr bgcolor='white'>";
              PUT "     <td colspan=""" SPAN1 +(-1) """ valign='top' bgcolor='#999999'><img
border='0' height='25' width='242' src=&logo.></td>";
              PUT "      <td colspan=""" SPAN2 +(-1) """ align='right' valign='bottom'
bgcolor='#999999'>";
              PUT "          <div align='right'>";
              PUT "             <a href='..\child\index.htm' &target.><img src=&home_but. border='0'
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.
border='0' alt='Return to Top Level'></a></noscript>";
              PUT "          &htmlsp. &htmlsp.";
              PUT "             <a href='..\child\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
              PUT "    </td>";
              PUT "</tr>";

              /** MF Changes ROW 2 **/
              /** Modified 2-2 MAB to better align title **/
              PUT "<tr>";
              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 "               <font face='&fontface.' color='#3333cc' size='5'><b>&major.<br>";
              /*** If ratings then don't display reference period ***/
              %if &var3.=6 OR &var3.=7 OR &var3.=8 OR &var3.=9 %then %do;
```

```
                        ***RSG 1/12/06 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 "        </td>";
            PUT "</tr>";


            /*** 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 "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>";   /** Column 1 **/
                    /*** If sub-benefits then output sub-benefit columns ***/
                    %if &subcols.^=0 %then %do;
                      IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
                      PUT "<td align='center' valign='bottom' colspan=&subcols.><IMG SRC=" IMAGE "
alt='" BENEFIT "' BORDER=0></td>";
                      PUT     "<td     align='center'     valign='bottom'     colspan=&qtrs.><IMG
SRC='&imgdir.\composite.gif' ALT='Composite' BORDER=0></td></tr>";
                    %end;
                    %else %do;
                      PUT     "<td     align='center'     valign='bottom'     colspan=&qtrs.><IMG
SRC='&imgdir.\border_rating.gif' ALT='Ratings' BORDER=0></td></tr>";
                    %end;
               %end;
               %else %do;
                    PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>";   /** Column 1 **/
                    /*** If sub-benefits then output sub-benefit columns ***/
                    %if &subcols.^=0 %then %do;
                      PUT    "<td    align='center'    valign='bottom'    colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
                      PUT     "<td     align='center'     valign='bottom'     colspan=&qtrs.><font
face='&fontface.'><b>Composite</b></font></td></tr>";
                    %end;
                    %else %do;
                      PUT     "<td     align='center'     valign='bottom'     colspan=&qtrs.><font
face='&fontface.'><b>Ratings</b></font></td></tr>";
                    %end;
               %end;
            %end;


            /*** 4th Row start (column 1) ***/
            /*** ÛÛ FRAMES SECTION ÛÛ ***/
            %if &prefix=f %then %do;
              PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
              PUT        "<td        width='26%'        align='center'        valign='bottom'><img
src='&imgdir.\blank_110_50.gif' border=0></td>";
            %end;
            %else %do;
              PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
              PUT "<td width='10%'>&htmlsp.</td>";
            %end;



            /*-------------------------*/
            /* 2000/11: begin xls code */
            /*-------------------------*/
            %if &outxls.=1 %then %do;
              FILE XLSTITLE;
    /*          PUT "&major. &comma. &sub_regs.";*/
               PUT "&major.";
              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 ***/

          %if &var3 = 6 or &var3 = 7 or &var3 = 8 or &var3 = 9 %then %do;

              HREF=COMPRESS("..\child\help.htm#q0");
              HREF1=COMPRESS("..\child\help.htm#trends");    /*7-29-2002 DKB ADDED LINK FOR TREND
SECTION OF HELP FILE*/

          %end;
          %else %do;
              HREF=COMPRESS("..\child\help.htm#q&var3.");
              HREF1=COMPRESS("..\child\help.htm#trends");    /*7-29-2002 DKB ADDED LINK FOR TREND
SECTION OF HELP FILE*/
          %end;



      /*** 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("&imgdir.\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 "Trend" THEN PUT "<td width='18%' align='center' valign='bottom'><a href="""
HREF +(-1) """ &target.><IMG SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a></td>";
         ELSE PUT "<td width='20%' align='center' valign='bottom'><a href=""" HREF1 +(-1) """
&target.><IMG SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a></td>";
      %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 "Trend" THEN PUT "<td width='10%' align='center' valign='bottom'><font
face='&fontface.' size='1'><a href=""" HREF +(-1) """ &target.>" &HEADVAR. "</a></font></td>";
         ELSE PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.'
size='1'><a href=""" HREF1 +(-1) """ &target.>" &HEADVAR. "</a></font></td>";
      %end;


      IF EOF THEN DO;
        PUT "</font></tr>";
        /***  2-2 MAB removed scale row ***/
      END;

    RUN;
    %end;

    /*ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ*/
    /*** 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. Quarterly 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 "<tr bgcolor='white'>";
             PUT  "        <td  colspan="""  SPAN1  +(-1)  """  valign='top'  bgcolor='#999999'><img
border='0' height='25' width='242' src=&logo.></td>";
             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='..\child\&prefix.&var1.-&var2.-&var3.-0&unq..htm'
&target.><img src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
             PUT "            <a href='..\child\index.htm' &target.><img src=&home_but. border='0'
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.
border='0' alt='Return to Top Level'></a></noscript>";
             PUT "          &htmlsp. ";
             PUT "             <a  href='..\child\help.htm'  &target.><img  src=&help_but.  border='0'
alt='Help'></a></div>";
               PUT "    </td>";
             PUT "</tr>";

             /** MF Changes ROW 2 **/
             /** Modified 2-2 MAB to better align title **/
             PUT "<tr>";
             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 "                <font face='&fontface.' color='#3333cc' size='5'><b>&major.<br>";


             PUT "                 &sub_ben.<BR>&currentperiod.</b></font>";



             PUT "        </td>";
             PUT "</tr>";

             /*** 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 "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>";   /** Column 1 **/
                   IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
IMAGE=COMPRESS("&imgdir.\span_image&var3..gif");
                   PUT  "<td  align='center'  valign='bottom'  colspan=&subcols.><IMG  SRC="  IMAGE  "
alt='" BENEFIT "' BORDER=0></td>";
                %end;
                %else %do;
```

```
                    PUT "<tr bgcolor= &hdcolr.><td>&htmlsp.</td>";   /** Column 1 **/
                    PUT     "<td     align='center'     valign='bottom'     colspan=&subcols.><font
face='&fontface.'><b>&sub_ben.<br>components</b></font></td>";
                 %end;
              %end;

              /*** 4th Row start (column 1) ***/
              /*** ÛÛ FRAMES SECTION ÛÛ ***/
              %if &prefix=f %then %do;
                PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                %if &var3.=3 %then %do;
                     PUT  "<td  align='center'  valign='bottom'><img  src='&imgdir.\blank_100_50.gif'
border=0></td>";
                %end;
                %else %do;
                     PUT  "<td  align='center'  valign='bottom'><img  src='&imgdir.\blank_130_50.gif'
border=0></td>";
                   %end;
              %end;
              %else %do;
                PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                PUT "<td width='10%'>&htmlsp.</td>";
              %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 "&major.";
                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#q&var3.");   */

       HREF=COMPRESS("..\child\&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 "<td align='center' valign='bottom'><a href="""  HREF +(-1)  """  &target.><IMG SRC='"
IMAGE "' alt='" BENTYPE "' BORDER=0></a></td>";
       %end;
       %else %do;
          PUT  "<td  width='10%'  align='center'  valign='bottom'><font  face='&fontface.'  size='1'><a
href="""  HREF +(-1)  """  &target.>" &HEADVAR. "</a></font></td>";
       %end;

       qnum+1; *** RSG 08/07/03 Added to increase the counter;

       IF EOF THEN DO;
         PUT "</font></tr>";
         /***  2-2 MAB removed scale row ***/
       END;


     RUN;
     %end;
```

```
     /*ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ*/
     /*** 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 ***/
     /**DKB CHANGED FROM +1 to +3 on 4/29/2002 ***/
     %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 ***/
       /*** Modified 2-2 MAB to deal with new period values **/

       *  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;


       /**** MAB 10-12-2006 CHANGED BELOW - NEED TO MAKE PERM FIX SO NOT COLUMN SPECIFIC ****/
       /**** CURRENTLY IS DEPENDENT ON HAVING 4 COLUMNS 3 YRS + 1 TREND ****/
       /**** WOULD BE IDEAL TO SUBSET BASED ON BENTYPE ****/
       %else %if &var4. ne 0 and BENTYPE ne "Composite" %then %do;
                     %if &var4. = 1 %then %do;
                             IF 1 <= _N_ <= 4;
                     %end;
                     %else %if &var4. = 2 %then %do;
                             IF 5 <= _N_ <= 8;
                     %end;
                     %else %if &var4. = 3 %then %do;
                             IF 9 <= _N_ <= 12;
                     %end;
                     %else %if &var4. = 4 %then %do;
                             IF 13 <= _N_ <= 16;
                     %end;
                     %else %if &var4. = 5 %then %do;
                             IF 17 <= _N_ <= 20;
                     %end;
                     call symput('sub2_ben',BENTYPE); **create macro var to use in sub-benefit
     trend pages (below) - RSG 08/07/03;
       %end;


     RUN;                              ***MJS 07/03/03 Changed from BENTYPE IN any period and Est.
Quarterly 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 */

              /** MF Changes ROW 1 **/
              PUT     "<center><table     border='&border.'     cellpadding='2'     cellspacing='0'
bgcolor='#D8D8D8' width='&width2.'>";
              PUT "<tr bgcolor='white'>";
              PUT  "       <td  colspan="""  SPAN1  +(-1)  """  valign='top'  bgcolor='#999999'><img
border='0' height='25' width='242' src=&logo.></td>";
              PUT  "          <td  colspan="""  SPAN2  +(-1)  """  align='right'  valign='bottom'
bgcolor='#999999'>";
              PUT "          <div align='right'>";
```

```
              PUT  "                    <a  href='..\child\&prefix.&var1.-&var2.-&var3.-0&unq..htm'
&target.><img src='&imgdir.\&click_image.' alt='&click_alt.' border=0></a>&htmlsp.";
              PUT "            <a href='..\child\index.htm' &target.><img src=&home_but. border='0'
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.
border='0' alt='Return to Top Level'></a></noscript>";
              PUT "          &htmlsp.";
              PUT "             <a href='..\child\help.htm' &target.><img src=&help_but. border='0'
alt='Help'></a></div>";
              PUT "    </td>";
              PUT "</tr>";

              /** MF Changes ROW 2 **/
              /** Modified 2-2 MAB to better align title **/
              PUT "<tr>";
              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 "                <font face='&fontface.' color='#3333cc' size='5'><b>&major.<br>";

              /*** Since trend data don't display reference period ***/
              PUT "                 &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;
              PUT "                <font face='&fontface.' color='#3333cc' size='4'><b>";
                PUT "                 &sub2_ben.</b></font>";
                %end;
              PUT "        </td>";
              PUT "</tr>";


              /*** 3rd Row ***/
              /*** ÛÛ FRAMES SECTION ÛÛ ***/
              /**PUT "<td></td>"**/



              /*** 4th Row start (column 1) ***/
              /*** ÛÛ FRAMES SECTION ÛÛ ***/
              %if &prefix=f %then %do;
                PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                PUT        "<td        width='26%'        align='center'        valign='bottom'><img
src='&imgdir.\blank_110_50.gif' border=0></td>";
              %end;
              %else %do;
                PUT "<tr bgcolor= &hdcolr.><font face='&fontface.'>";
                PUT "<td width='10%'>&htmlsp.</td>";
              %end;



              /*-------------------------*/
              /* 2000/11: begin xls code */
              /*-------------------------*/
              %if &outxls.=1 %then %do;
                FILE XLSTITLE;
     /*           PUT "&major. &comma. &sub_regs.";*/
                  PUT "&major.";
                  %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;


          ****7-29-2002  DKB  ADDED  LINKS  TO  COMPONENT  PAGES  OF  PREVIOUS  QUARTERS  FROM  TREND
PAGE****;
          ************************THIS WILL NEED TO BE UPDATED EACH QUARTER**********************;
           ***FRAMES***;
           HREFf1=COMPRESS("..\Period1\f&var1.-&var2.-&var3.-0.htm");
           HREFf2=COMPRESS("..\Period2\f&var1.-&var2.-&var3.-0.htm");  /***  JSO  10/12/2006  added
***/
           HREFf3=COMPRESS("..\child\f&var1.-&var2.-&var3.-0.htm");
           HREFf4=COMPRESS("..\child\help.htm#trends");

           ***NO FRAMES***;
           HREFp1=COMPRESS("..\Period1\p&var1.-&var2.-&var3.-0.htm");
           HREFp2=COMPRESS("..\Period2\p&var1.-&var2.-&var3.-0.htm");  /***  JSO  10/12/2006  added
***/
           HREFp3=COMPRESS("..\child\p&var1.-&var2.-&var3.-0.htm");
           HREFp4=COMPRESS("..\child\help.htm#trends");

          ****HELP FILE FOR TREND COLUMN***;
    /*       HREF3=COMPRESS("..\child\help.htm#trend");*/

        ****************************************************;

      /*** 4th Row (columns 2+) ***/
      /*** If quarter column then HREF link is different ****/
      /*** ÛÛ FRAMES SECTION ÛÛ ***/

           *LENGTH HREF $250;

      %if &prefix=f %then %do;
    /*    %if &var3.=11 and &seppage.=2 and (&var4. = 0 or &var4. = 3) %then %do;
            IF TIMEPD = "April, 2003 to March, 2004" THEN DO;
               IMAGE=COMPRESS("&imgdir.\col"||_N_||"_R.gif");
            END;
       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;*/

        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; /*** JSO 10/12/2006 added ***/
          if timepd ne "Trend" then
               PUT  "<td  width='18%'  align='center'  valign='bottom'><a  href="""  HREF  +(-1)  """
&target.><IMG SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a></td>";
          else do;
            IMAGE=COMPRESS("&imgdir.\col"||_N_||".gif");
            PUT  "<td  width='20%'  align='center'  valign='bottom'><a  href="""  HREF  +(-1)  """
&target.><IMG SRC='" IMAGE "' alt='" TIMEPD "' BORDER=0></a></td>";
          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; /*** JSO 10/12/2006 added ***/

        /*7-29-2002 DKB ADDED LINK TO TREND SECTION OF HELP FILE*/

    /* %if &var3.=11 and &seppage.=2 and (&var4. = 0 or &var4. = 3) %then %do;
            IF TIMEPD = "April, 2003 to March, 2004" THEN DO;
               PUT   "<td   width='10%'   align='center'   valign='bottom'><font   face='&fontface.'
size='1'><a href="""  HREF +(-1) """  &target.>" &HEADVAR. "<b>*</b></a></font></td>";
        END;
        ELSE DO;
               PUT   "<td   width='10%'   align='center'   valign='bottom'><font   face='&fontface.'
size='1'><a href="""  HREF +(-1) """  &target.>" &HEADVAR. "</a></font></td>";
        END;
        %end;
        %else %do;*/
            PUT "<td width='10%' align='center' valign='bottom'><font face='&fontface.' size='1'><a
href="""  HREF +(-1) """  &target.>" &HEADVAR. "</a></font></td>";
        /*%end;*/

    %end;


      IF EOF THEN DO;
        PUT "</font></tr>";
        /***  2-2 MAB removed scale row ***/
      END;

    RUN;

    %end;

    /*** ÛÛ FRAMES SECTION ÛÛ ***/
    %if &prefix=f %then %do;
      /*** Close out header HTML page ***/
      DATA _NULL_;
        FILE "&FILEOUT1." MOD;

        PUT "</center></table>";
        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>";
      RUN;



    %end;




    /*************************************/
    /****  Put out rest of table      ****/
    /****  Colored scores and Stub    ****/
    /*************************************/
    %if &seppage.=0 OR &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;
    DATA HTML3;
      SET SUBSET4;
```

```
     RUN;
     %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 = "Problems Getting Personal Doctor/Nurse";
                       %end;
                       %else %if &var4. = 2 %then %do;
                               IF BENTYPE = "Problems Getting to See Specialist";    ***MJS 5/7/04
Changed label;
                       %end;
                       %else %if &var4. = 3 %then %do;
                               IF BENTYPE = "Problems Getting Necessary Care";
                       %end;
                       %else %if &var4. = 4 %then %do;
                               IF BENTYPE = "Delays in Care While Awaiting Approval";
                       %end;
               %end;
               %else %if &var3. = 2 %then %do;
                       %if &var4. = 1 %then %do;
                               IF BENTYPE = "Advice over Telephone";
                       %end;
                       %else %if &var4. = 2 %then %do;
                               IF BENTYPE = "Wait for Routine Visit";
                       %end;
                       %else %if &var4. = 3 %then %do;
                               IF BENTYPE = "Wait for Urgent Care";
                       %end;
                       %else %if &var4. = 4 %then %do;
                               IF  BENTYPE  =  "Wait  in  Doctor`s  Office";     ***MJS  5/7/04  Changed
label;
                       %end;
               %end;
               %else %if &var3. = 3 %then %do;
                       %if &var4. = 1 %then %do;
                               IF BENTYPE = "Listens Carefully";
                       %end;
                       %else %if &var4. = 2 %then %do;
                               IF BENTYPE = "Explains so you can Understand";
                       %end;
                             %else %if &var4. = 3 %then %do;
                                     IF BENTYPE = "Explains so your child can Understand";
                             %end;
                       %else %if &var4. = 4 %then %do;
                               IF BENTYPE = "Shows Respect";
                       %end;
                       %else %if &var4. = 5 %then %do;
                               IF BENTYPE = "Spends Time with your child";
                       %end;
```

```
            %end;
            %else %if &var3. = 4 %then %do;
                   %if &var4. = 1 %then %do;
                          IF BENTYPE = "Courteous and Respectful";
                   %end;
                   %else %if &var4. = 2 %then %do;
                          IF BENTYPE = "Helpful";
                   %end;
            %end;
            %else %if &var3. = 5 %then %do;
                   %if &var4. = 1 %then %do;
                          IF BENTYPE = "Problem Finding/Understanding Written Material";
                   %end;
                   %else %if &var4. = 2 %then %do;
                          IF BENTYPE = "Problem Getting Help from Customer Service";
                   %end;
                   %else %if &var4. = 3 %then %do;
                          IF BENTYPE = "Problem with Paperwork";
                   %end;
            %end;
            %else %if &var3. = 10 %then %do;
                   %if &var4. = 1 %then %do;
                          IF BENTYPE = "Make Easy To Discuss Questions";
                   %end;
                   %else %if &var4. = 2 %then %do;
                          IF BENTYPE = "Get Information Needed From Doctor";
                   %end;
                   %else %if &var4. = 3 %then %do;
                          IF BENTYPE = "Questions Answered By Doctor";
                   %end;
                   %else %if &var4. = 4 %then %do;
                          IF BENTYPE = "Doctor Involves Parent In Decision";
                   %end;

            %end;
                 /*** KRR deleted 10/09/2007
            %else %if &var3. = 11 %then %do;
                   %if &var4. = 1 %then %do;
                          IF BENTYPE = "Problems Getting Special Medical Equipment";
                   %end;
                   %else %if &var4. = 2 %then %do;
                          IF BENTYPE = "Problems Getting Special Therapy";
                   %end;
                   %else %if &var4. = 3 %then %do;
                       IF BENTYPE = "Problems Getting Treatment or Counseling";
                   %end;
            %end; End KRR deleted 10/09/2007 ***/
      %end;

    RUN;                              ***MJS 07/03/03 Changed from BENTYPE IN any period and Est.
Quarterly Rate of Change;
    %end;

    /*ÛÛÛÛ ALL MAJGRPS ÛÛÛÛ*/
    %if &var1.=0 %then %do;

    DATA HTML4;
      SET HTML3 END=EOF;
      *LENGTH HREF $ 250;   /*MJS 01/29/04 Commented out statement*/

      %if &var1.=0 %then %let major=%STR();
      %if &var1.=1 %then %let major=%STR(CONUS MHS);
      %if &var1.=2 %then %let major=%STR(North);
      %if &var1.=3 %then %let major=%STR(South);
      %if &var1.=4 %then %let major=%STR(West);

      IF MAJGRP="CONUS MHS" THEN MAJNUM=1;
      IF MAJGRP="North"  THEN MAJNUM=2;
      IF MAJGRP="South" THEN MAJNUM=3;   ***MJS 05/04/03 Removed Civilian PCM;
      IF MAJGRP="West" THEN MAJNUM=4;            ***(MAJNUM=3), and changed 4-8 to 3-7;


      /*** HREF link to another page ***/
    /*  HREF=COMPRESS("..\child\&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,1,5)="CONUS" 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  "<tr  bgcolor=  &gray.><td  width='"  WIDTH_COL1  "'><font  face='&fontface.'
size='2'><b>Trends</b></font></td>";
                /**RSG 02/2005 Comment out next line because total score is removed **/
     /*          PUT "<td width='" WIDTH3 "'>&htmlsp.</td>";          */

              %do i=1 %to 10; ***KRR 10/11/2007 Changed 11 to 10 Benefits;
                 %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("..\child\&prefix.&var1.-&var2.-&i.-0q.htm");  /*** href to 2nd
html file ***/
                 %end;
                 %else %do;
                     HREFQ=COMPRESS("..\child\&prefix.&var1.-&var2.-&i.-0.htm");  /*** href to 2nd
html file ***/
                 %end;

                 PUT  "<td  width='"  WIDTH3  "'><a  href='"  HREFQ  "'  &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
              %end;
              PUT "</tr>";
        %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 "</tr>";  /*** terminate previous row ***/


            /*** Column 1 / Row 1 ***/
            /*** ÛÛ FRAMES SECTION ÛÛ ***/
            %if &prefix=f %then %do;
                /*IF  MAJGRP  IN("Benchmark")  THEN*/  PUT  "<tr><td  width='"  WIDTH_COL1  "'><b><font
face='&fontface.' size='2'>" MAJGRP "</font></b></td>";    /*** no HREF links ***/
            %end;
            %else %do;
                /*IF  MAJGRP  IN("Benchmark")  THEN  */  PUT  "<tr><td><b><font  face='&fontface.'
size='2'>" MAJGRP "</font></b></td>";                          /*** no HREF links ***/
            %end;

            /*** Column 1 / Row 2+ ***/

            ELSE  IF  MOD(ROW,2)=0  THEN  PUT  "<tr  bgcolor=  &gray.><td><font  face='&fontface.'
size='2'><a href="""  HREF +(-1)  """  &target.> " MAJGRP " </a></font></td>";   /** Shade row **/
            ELSE PUT "<tr><td><font face='&fontface.' size='2'><a href="""  HREF +(-1)  """  &target.>
" MAJGRP " </a></font></td>";
```

```
            /*-------------------------*/
            /* 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 */
               ELSE IF MOD(ROW,2)=0 THEN      PUT MAJGRP '09'x @@;   /* rather than spanning across
cells              */
               ELSE                           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 "<td width='" WIDTH3 "' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
            ELSE IF SCORE=.A THEN PUT "<td width='" WIDTH3 "' align='center'
valign='bottom'><b><font face='&fontface.' color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
            ELSE PUT "<td width='" WIDTH3 "' align='center' valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.
"></font></b></td>";
       END;
       ELSE DO;*/
         IF SCORE=. THEN DO;
             PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE=
" +(-1) ORDER Z5. "></font></b></td>";
         END;
         ELSE IF SCORE=.A THEN DO;
             PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5. "></font></b></td>";
         END;
         ELSE DO;
             IF SIG=1 THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2' color=&green.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
             ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
             ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5. "></font></b></td>";
             ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5. "></font></i></td>";
             ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5. "></font></td>";
         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 @@;
              ELSE                   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 "</tr>";  /*** terminate last row ***/

       %BOTTOM_NOTES;  /** Macro with bottom notes **/


      /*-------------------------*/
      /* 2000/11: begin xls code */
      /*-------------------------*/
       %if &outxls.=1 %then %do;
          %if &var3.=0 %then %do;
            FILE XLSDATA;
            PUT; PUT;
            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";
          %end;
          %else %if (&var3.=4 and (&var4.=3 or &var4.=0) and &seppage.=2) or
                    (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
                    (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and
&SRCYR2";   ***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";
          %end;
          %else %if &var3.ne 0 %then %do;
            FILE XLSDATA;
            PUT; PUT;
            PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and
&SRCYR2";   ***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";
              %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
                   PUT "* Indicates scores were not available that quarter";
            %end;
            PUT "*** Indicates suppressed due to small sample size";
          %end;
       %end;

      /*-------------------------*/
      /* 2000/11: end xls code   */
      /*-------------------------*/

    END;
  RUN;
  %end;
```

```
    /*ÛÛÛÛ All Regions ÛÛÛÛ*/
    %if &var2.=0 %then %do;
    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 ;
              PUT  "<tr  bgcolor=  &gray.><td  width='"  WIDTH_COL1  "'><font  face='&fontface.'
size='2'><b>Trends</b></font></td>";

               %do i=1 %to 10; ***KRR 10/11/2007 Changed 11 to 10 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("..\child\&prefix.&var1.-&var2.-&i.-0q.htm");  /*** href to 2nd
html file ***/
                 %end;

                 %else %do;
                     HREFQ=COMPRESS("..\child\&prefix.&var1.-&var2.-&i.-0.htm");  /*** href to 2nd
html file ***/
                 %end;

                 PUT  "<td  width='"  WIDTH3  "'><a  href='"  HREFQ  "'  &target.><CENTER><img
src='&imgdir.\trend_row.gif' border=0></CENTER></a></td>";
              %end;
              PUT "</tr>";
        %end;


    END;


      IF LREGION^=REGION THEN DO;             /*** Start new row ***/
            FILE "&FILEOUT1." MOD ;   /* 2000/11: moved inside if stmt */
            ROW+1;
            IF LREGION^=" " THEN PUT "</tr>";  /*** terminate previous row ***/
               ELSE IF REGION = "Children Under Age 6" then do;
                PUT  "<tr  bgcolor=  'white'><td  width='90%'  ALIGN=LEFT  colspan=12><b><font
face='Arial,Helvetica,Swiss,Geneva' size='2'>Age Group</font></b></td></tr><tr>";
            END;
               ELSE IF REGION = "All Children" then do;
                PUT  "<tr  bgcolor=  'white'><td  width='90%'  ALIGN=LEFT  colspan=12><b><font
face='Arial,Helvetica,Swiss,Geneva' size='2'>Enrollment Group</font></b></td></tr><tr>";
            END;


            /*-------------------------*/
            /* 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 ***/
            /*** ÛÛ FRAMES SECTION ÛÛ ***/
            %if &prefix=f %then %do;
               IF  REGION  =  "Benchmark"  THEN  PUT  "<tr><td  width='"  WIDTH_COL1  "'><b><font
face='&fontface.' size='2'>" REGION "</font></b></td>";  /*** no HREF links ***/
            %end;
            %else %do;
               IF  REGION  =  "Benchmark"  THEN  PUT  "<tr><td  width='"  WIDTH_COL1  "'><b><font
face='&fontface.' size='2'>" REGION "</font></b></td>";  /*** no HREF links ***/
            %end;
            ELSE DO;   /*** HREF links for each region ***/
                HREF=COMPRESS("&prefix.0-"||REGNUM||"-&var3.-&var4.&q..htm");

              /*** Column 1 / Row 2+ ***/
              %if &prefix=f %then %do;
                 IF REGION = "Children Under Age 6" THEN PUT "<tr bgcolor= 'white'><td width='90%'
ALIGN=LEFT        colspan=12><b><font        face='Arial,Helvetica,Swiss,Geneva'        size='2'>Age
Group</font></b></td></tr><tr>";
                 IF  REGION  =  "All  Children"  THEN  PUT  "<tr  bgcolor=  'white'><td  width='90%'
ALIGN=LEFT      colspan=12><b><font      face='Arial,Helvetica,Swiss,Geneva'      size='2'>Enrollment
Group</font></b></td></tr><tr><tr>
                PUT "<tr><td><b><font face='&fontface.' size='2'>" REGION "</b></font></td>";
              %end;
              %else %do;
                 IF REGION = "Children Under Age 6" THEN PUT "<tr bgcolor= 'white'><td width='90%'
ALIGN=LEFT        colspan=12><b><font        face='Arial,Helvetica,Swiss,Geneva'        size='2'>Age
Group</font></b></td></tr><tr>";
                 IF  REGION  =  "All  Children"  THEN  PUT  "<tr  bgcolor=  'white'><td  width='90%'
ALIGN=LEFT      colspan=12><b><font      face='Arial,Helvetica,Swiss,Geneva'      size='2'>Enrollment
Group</font></b></td></tr><tr><tr>
                PUT "<tr><td><b><font face='&fontface.' size='2'>" REGION "</b></font></td>";
              %end;

              REGNUM+1;

            END;

            /*-------------------------*/
            /* 2000/11: begin xls code */
            /*-------------------------*/
            %if &outxls.=1 %then %do;
              FILE XLSDATA;
                IF  MOD(ROW,2)=0  THEN               PUT  REGION  '09'x  @@;     /*  just  presentation
difference in htm */
                ELSE                            PUT REGION '09'x @@;   /* keeping as is to preserve
htm 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 = "Benchmark" THEN DO;     /*** no significance ***/
           IF  SCORE=.  THEN  PUT  "<td  width='"  WIDTH3  "'  align='center'  valign='bottom'><b><font
face='&fontface.' color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
           ELSE   IF   SCORE=.A   THEN   PUT   "<td   width='"   WIDTH3   "'   align='center'
valign='bottom'><b><font  face='&fontface.'  color=&blue.  size='2'>NA<!CODE=  "  +(-1)  ORDER  Z5.
"></font></b></td>";
           ELSE   PUT   "<td   width='"   WIDTH3   "'   align='center'   valign='bottom'><b><font
face='&fontface.'   color=&blue.   size='2'>"   SCORE   3.0   "<!CODE=   "   +(-1)   ORDER   Z5.
"></font></b></td>";
      END;
      ELSE DO;
        IF SCORE=. THEN DO;
```

```
            PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE=
" +(-1) ORDER Z5.  "></font></b></td>";
         END;
         ELSE IF SCORE=.A THEN DO;
            PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5.  "></font></b></td>";
         END;
         ELSE DO;
            IF  SIG=1  THEN  PUT  "<td  align='center'  valign='bottom'><b><font  face='&fontface.'
size='2' color=&green.>" SCORE 3.0  "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0  "<!CODE= " +(-1) ORDER Z5.  "></font></i></td>";
            ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></td>";
         END;
      END;


      /*-------------------------*/
      /* 2000/11: begin xls code */
      /*-------------------------*/
      %if &outxls.=1 %then %do;
        FILE XLSDATA;
        IF REGION = "Benchmark" THEN DO;
             IF SCORE=. THEN       PUT "***" '09'x @@;
             ELSE IF SCORE=.A THEN PUT "NA"  '09'x @@;
             ELSE                  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: refer back to htm file */
         PUT "</tr>";  /*** terminate last row ***/


         %BOTTOM_NOTES;  /** Macro with bottom notes **/


         /*-------------------------*/
         /* 2000/11: begin xls code */
         /*-------------------------*/
         %if &outxls.=1 %then %do;
            %if &var3.=0 %then %do;
              FILE XLSDATA;
              PUT; PUT;
              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";
            %end;
            %else %if (&var3.=4 and (&var4.=3 or &var4.=0) and &seppage.=2) or
                      (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
                      (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
              FILE XLSDATA;
              PUT; PUT;
              PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and
&SRCYR2";   ***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";
            %end;
            %else %if &var3.ne 0 %then %do;
              FILE XLSDATA;
              PUT; PUT;
              PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and
&SRCYR2";   ***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";
                %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
                     PUT "* Indicates scores were not available that quarter";
              %end;
              PUT "*** Indicates suppressed due to small sample size";
            %end;
          %end;
          /*-------------------------*/
          /* 2000/11: end xls code   */
          /*-------------------------*/

      END;

    RUN;

    %end;




    /*ÛÛÛÛ Single Regions ÛÛÛÛ*/
    /* 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;
      END;


      IF LREGCAT^=REGION THEN DO;              /*** Start new row ***/
            FILE "&FILEOUT1." MOD ;   /* 2000/11: moved inside if stmt */
            ROW+1;
            IF LREGCAT^=" " THEN PUT "</tr>";  /*** terminate previous row ***/
               IF REGION = "Children Under Age 6" THEN PUT "<tr bgcolor= 'white'><td width='90%'
ALIGN=LEFT        colspan=12><b><font        face='Arial,Helvetica,Swiss,Geneva'        size='2'>Age
Group</font></b></td></tr><tr>";
               IF REGION = "All Children" THEN PUT "<tr bgcolor= 'white'><td width='90%' ALIGN=LEFT
colspan=12><b><font              face='Arial,Helvetica,Swiss,Geneva'              size='2'>Enrollment
Group</font></b></td></tr><tr><tr>";
            IF REGION = "Benchmark" THEN PUT "<tr><td><b><font face='&fontface.' size='2'>" REGION
"</font></b></td>";
            ELSE IF SUBSTR(REGION,1,5) = "CONUS" THEN PUT "<tr bgcolor= &gray.><td><b><font
face='&fontface.' size='2'>" REGION "</font></b></td>";
```

```
            ELSE  IF  MOD(ROW,2)=0  THEN  PUT  "<tr  bgcolor=  &gray.><td><font  face='&fontface.'
size='2'>" REGION "</font></td>";   /** Shade row **/
            ELSE PUT "<tr><td><font face='&fontface.' size='2'>" REGION "</font></td>";

            /*-------------------------*/
            /* 2000/11: begin xls code */
            /*-------------------------*/
            %if &outxls.=1 %then %do;
              FILE XLSDATA;
              IF LREGCAT^=" " THEN PUT " ";
              IF REGION = "Benchmark" THEN  PUT REGION '09'x @@;         /* no logic difference */
              ELSE IF SUBSTR(REGION,1,5) = "CONUS") THEN PUT REGION '09'x @@;
              ELSE IF MOD(ROW,2)=0 THEN           PUT REGION '09'x @@;         /* just presentation
difference in htm */
              ELSE                                 PUT REGION '09'x @@;         /* keeping as is to
preserve htm code structure */
            %end;
            /*-------------------------*/
            /* 2000/11: end xls code   */
            /*-------------------------*/


            LREGCAT=REGION;

       END;



       /*********************************************/
       /**** Need to output different formats    ****/
       /*********************************************/
       FILE "&FILEOUT1." MOD ;                /* 2000/11: refer back to htm file */
       IF REGION = "Benchmark" THEN DO;     /*** no significance ***/
            IF  SCORE=.  THEN  PUT  "<td  align='center'  valign='bottom'><b><font  face='&fontface.'
color=&blue. size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE IF SCORE=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
color=&blue. size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE  PUT  "<td  align='center'  valign='bottom'><b><font  face='&fontface.'  color=&blue.
size='2'>" SCORE 3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
       END;
       ELSE DO;
         IF SCORE=. THEN DO;
            PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>***<!CODE=
" +(-1) ORDER Z5.  "></font></b></td>";
         END;
         ELSE IF SCORE=.A THEN DO;
            PUT "<td align='center' valign='bottom'><b><font face='&fontface.' size='2'>NA<!CODE= "
+(-1) ORDER Z5.  "></font></b></td>";
         END;
         ELSE DO;
            IF  SIG=1  THEN  PUT  "<td  align='center'  valign='bottom'><b><font  face='&fontface.'
size='2' color=&green.>" SCORE 3.0  "<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE IF SIG=. THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>***<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE IF SIG=.A THEN PUT "<td align='center' valign='bottom'><b><font face='&fontface.'
size='2'>NA<!CODE= " +(-1) ORDER Z5.  "></font></b></td>";
            ELSE IF SIG=-1 THEN PUT "<td align='center' valign='bottom'><i><font face='&fontface.'
size='2' color=&red.>" SCORE 3.0  "<!CODE= " +(-1) ORDER Z5.  "></font></i></td>";
            ELSE PUT "<td align='center' valign='bottom'><font face='&fontface.' size='2'>" SCORE
3.0 "<!CODE= " +(-1) ORDER Z5.  "></font></td>";
         END;
       END;

       /*-------------------------*/
       /* 2000/11: begin xls code */
       /*-------------------------*/
       %if &outxls.=1 %then %do;
         FILE XLSDATA;
         IF REGION = "Benchmark" THEN DO;
              IF SCORE=. THEN        PUT "***" '09'x @@;
              ELSE IF SCORE=.A THEN  PUT "NA"  '09'x @@;
              ELSE                   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: refer back to htm file */
         PUT "</tr>";  /*** terminate last row ***/

         %BOTTOM_NOTES;  /** Macro with bottom notes **/


         /*-------------------------*/
         /* 2000/11: begin xls code */
         /*-------------------------*/
             %if &outxls.=1 %then %do;
            %if &var3.=0 %then %do;
              FILE XLSDATA;
              PUT; PUT;
              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";
            %end;
            %else %if (&var3.=4 and (&var4.=3 or &var4.=0) and &seppage.=2) or
                      (&var3.=1 and (&var4.=1 or &var4.=0) and &seppage.=2) or
                      (&var3.=2 and (&var4.=4 or &var4.=0) and &seppage.=2) %then %do;
              FILE XLSDATA;
              PUT; PUT;
              PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and
&SRCYR2";   ***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";
            %end;
            %else %if &var3.ne 0 %then %do;
              FILE XLSDATA;
              PUT; PUT;
              PUT "Source: Health Care Surveys of DoD Beneficiaries conducted in &SRCYR1 and
&SRCYR2";   ***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";
                 %if &var3 = 12 and &seppage = 2 and (&var4 = 0 or &var4 = 3) %then %do;
                      PUT "* Indicates scores were not available that quarter";
              %end;
              PUT "*** Indicates suppressed due to small sample size";
            %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.1-0-0-0.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 "<tr>";
        PUT "   <td colspan='&columns.'>";
        PUT "      <center>";
        PUT  "               <a  href='..\child\index.htm'  &target.><img  src=&home_but.  border='0'
alt='Return 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.
border='0' alt='Return to Top Level'></a></noscript>";

        PUT  "               <a  href='..\child\help.htm'  &target.><img  src=&help_but.  border='0'
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 PCM;
        majgrp4=COMPRESS("&prefix.4-&var2.-&var3.-&var4.&q..htm");    ***(majgrp3), and changed 4-8
to 3-7;
    /*    majgrp5=COMPRESS("&prefix.5-&var2.-&var3.-&var4.&q..htm");
        majgrp6=COMPRESS("&prefix.6-&var2.-&var3.-&var4.&q..htm");
        majgrp7=COMPRESS("&prefix.7-&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  &var2.^=0  %then  %do;    ***MJS  05/04/03
Removed Civilian PCM (&var1.^=3), changed 4,6,7 to 3,5,6,;
                      ***and changed MAJGRP 5&8 below to 4&7;
             PUT  "<a  href=""  MAJGRP1  +(-1)  ""  &target.><font  face='&fontface.'  size='2'>CONUS
MHS</font></a>&htmlsp.&htmlsp.";
             PUT    "<a    href=""    MAJGRP2    +(-1)    ""    &target.><font    face='&fontface.'
size='2'>North</font></a>&htmlsp.&htmlsp.";
             PUT    "<a    href=""    MAJGRP4    +(-1)    ""    &target.><font    face='&fontface.'
size='2'>South</font></a>&htmlsp.&htmlsp.";
             PUT    "<a    href=""    MAJGRP7    +(-1)    ""    &target.><font    face='&fontface.'
size='2'>West</font></a>";

          %end;
          %else %do;

            PUT  "<a  href=""  MAJGRP1  +(-1)  ""  &target.><font  face='&fontface.'  size='2'>CONUS
MHS</font></a>&htmlsp.&htmlsp.";
```

```
            PUT    "<a    href="""    MAJGRP2    +(-1)    """    &target.><font    face='&fontface.'
size='2'>North</font></a>&htmlsp.&htmlsp.";
            PUT    "<a    href="""    MAJGRP3    +(-1)    """    &target.><font    face='&fontface.'
size='2'>South</font></a>&htmlsp.&htmlsp.";   ***MJS 05/04/03 Removed Civilian PCM;
            PUT    "<a    href="""    MAJGRP4    +(-1)    """    &target.><font    face='&fontface.'
size='2'>West</font></a>&htmlsp.&htmlsp.";            ***(MAJGRP5), and changed 4-8 to 3-7;
     /*        PUT "<br>";
            PUT  "<a  href="""  MAJGRP5  +(-1)  """  &target.><font  face='&fontface.'  size='2'>Active
Duty Dependents</font></a>&htmlsp.&htmlsp.";
            PUT "<a href="""  MAJGRP6  +(-1)  """  &target.><font  face='&fontface.'  size='2'>Retirees
and Dependents</font></a>&htmlsp.&htmlsp.";
            PUT  "<a  href="""  MAJGRP7  +(-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 ***/
       /***DANIELE ADDED BR STATEMENT ON 11/1/01 SO PRINTER ICON WOULD SHOW UP ON SEPARATE LINE
***/
       %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;



    RUN;


    /*** Close HTML page ***/
    DATA _NULL_;
      FILE "&FILEOUT1." MOD ;

      PUT "</center></td></tr></table>";
      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;
         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 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;
```

```
        /*** Increment Row and Column pointers ***/
    /*    COLUMN=COLUMN+1;
        IF &var3.in (0,7,8,9,10) and COLUMN>&columns. THEN DO;    ***MJS 4/23/03 Changed 8/9/10/11
to 7/8/9/10;
           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;
        END;


        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 = "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 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;
    /*ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ*/
    /*ÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛÛ*/

    /********
    %LET PREFIX=p;
    %LET OUTXLS=0;

    %MKHTML(1,0,10,1,0); *KRR updated 10/09/2007 - 10 benefits now;
```

```
    %MKHTML(1,0,10,2,0); *KRR updated 10/09/2007 - 10 benefits now;
    %MKHTML(1,0,10,2,1); *KRR updated 10/09/2007 - 10 benefits now;
    %MKHTML(1,0,10,2,2); *KRR updated 10/09/2007 - 10 benefits now;
    %MKHTML(1,0,10,2,3); *KRR updated 10/09/2007 - 10 benefits now;
    *********/

    *********************************************;
    **** Create macros to call MKHTML macro  ****;
    *********************************************;

    /*** Create 4 HTML pages (4 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);   ***MJS 05/04/03 Removed Civilian PCM (Majgrp 3), and changed
4-8 to 3-7;
                %MKHTML(4,0,0,0,0);
    %MEND DOALL1;



    /*** Create 322 HTML pages (4 Majgrps / All Regions / 10 Benefits)***/
    %MACRO DOALL2();
               %DO J=1 %TO 4;
                   %DO K=1 %TO 10;       * 10 Sub-benefits ; /*** KRR Changed to 10 on 10/09/2007
***/
                      %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. = 1 OR &K. = 2 OR &K. = 10 %THEN %DO L= 0 %TO 4;
***RSG 08/07/03 There are different number of;
                                           %MKHTML(&J.,0,&K.,2,&L.);
                                        %END;
                                        %IF &K. = 4 %THEN %DO L = 0 %TO 2;
                                                 %MKHTML(&J.,0,&K.,2,&L.);
                                        %END;
                                        %ELSE %IF &K. = 3 %THEN %DO L = 0 %TO 5;
                                           %MKHTML(&J.,0,&K.,2,&L.);
                                        %END;
                                        %ELSE %IF &K. = 5 %THEN %DO L = 0 %TO 3; /* KRR - removed the
or K=11 condition on 10/09/2007 */
                                           %MKHTML(&J.,0,&K.,2,&L.);
                                        %END;
                      %END;
                       %END;
               %END;
    %MEND DOALL2;


    /*** Run macro to create Printer Friendly HTML files (non-frames) ***/

    %LET PREFIX=p;
    %LET OUTXLS=0;
    %DOALL1;
    %DOALL2;

    /*** Run macro to create Frame HTML files ***/
    %LET PREFIX=f;
    %LET OUTXLS=0;
    %DOALL1;
    %DOALL2;

    /*** Run macro to create Excel files ONLY ***/
    %LET PREFIX=P;
    %LET OUTXLS=1;
    %DOALL1;
    %DOALL2;

    %PUT "&number_html_files. HTML files created.";
```

G.21 LOADWEB\QC_CHILD.SAS - COMPARE SCORES IN TOTAL_C.SD2 WITH THOSE IN HTML FILES.

```
*=====================================================================;
*           ;
*   Programmer:  Mark A. Brinkley                                     ;
*        Title:  QC_child.SAS                                         ;
*       Client:  6244-410 ;
*         Date:  03-29-2000                                           ;
*           ;
*      Purpose:  This program is designed to read in ALL adult html   ;
*                files, extract the table data, and then compare      ;
*                this data to the input data which was used to        ;
*                create the html report cards.  If everything is OK,  ;
*                then the comparison should yield no differences.     ;
*           ;
*  Input files:  1) All F*.HTM files                                   ;
*                2) TOTAL_C.SD2                                        ;
*           ;
*  Modifications:   ;
*  1) 02/14/2001 - Keith Rathbun, Remove outputting of permanent      ;
*     SAS Dataset.  Deleted directory output file.  Removed white     ;
*     space from program.  Removed BY statement from proc compares.   ;
*     Added titles.  Setup to run in LOADWEB directory on Jdrive.     ;
*           ;
*  2) 04/18/2001 - Chris Rankin -- added Macro to process             ;
*                  frames and non-frames version separately           ;
*           ;
*  3) 11/27/2001 - Daniele Beahm -- revised code to check child       ;
*                  html files                                         ;
*           ;
*  4) 10/09/2007 - Keith Rathbun -- Updated to read TOTAL_C instead   ;
*                  of TREND_C.  Also updated folder names.            ;
*           ;
* Output files: Comparison summary listing                            ;
*           ;
*=====================================================================;
LIBNAME IN  ".";
OPTIONS NOCENTER LS=132 PS=79 COMPRESS=NO;

*******************************************************************;
*****    Run batch command to create dir of all F*.HTM files   *****;
*******************************************************************;
OPTIONS NOXWAIT;

%MACRO COMPARE(INCOND=,TITLE=);

X "DIR CHILDHTML\CHILD\&INCOND..HTM /B > CHILDHTML\CHILD\QC_CHILD.DAT";
X "CD CHILDHTML\CHILD";

*******************************************************************;
*****    Read in QC_CHILD which was just created               *****;
*******************************************************************;

DATA QC_CHILD;
   INFILE "QC_CHILD.DAT" LRECL=15 PAD;
   INPUT HTMLFILE $ 1-15;
RUN;

*******************************************************************;
*******       Read in all F*.HTM files                       *******;
*******************************************************************;

DATA HTMLS;
   SET QC_CHILD;
   INFILE FILEREF FILEVAR=HTMLFILE  LRECL=175 PAD END=DONE;
   DO UNTIL(DONE);
      INPUT TEMPVAR $ 1-175;
      OUTPUT;
   END;
RUN;

DATA TEMP;
   SET HTMLS;
```

```
      LENGTH ORDER 5;
      IF INDEX(TEMPVAR,"CODE")>0;
      PLACEI=INDEX(TEMPVAR,"CODE");
      ORDER=SUBSTR(TEMPVAR,PLACEI+5,5);
   RUN;

   DATA TESTFILE(DROP=PLACE PLACE2 PLACE3 SRCH PLACEI LNGTH TEMPVAR COLOR SCORE);
      SET TEMP;
      LENGTH COLOR $6;
      LENGTH SCORE_ 3;
      LENGTH SCORE $4;
      LENGTH SIG_ 3;
      IF INDEX(TEMPVAR,"color")>0 THEN DO;
         PLACE=INDEX(TEMPVAR,"color");
         COLOR=SUBSTR(TEMPVAR,PLACE+8,6);
         SRCH=SUBSTR(TEMPVAR,PLACE,30);
         IF INDEX(SRCH,">")>0 AND INDEX(SRCH,"<")>0 THEN DO;
            PLACE2=INDEX(SRCH,">");
            PLACE3=INDEX(SRCH,"<");
            LNGTH=PLACE3-PLACE2-1;
            SCORE=SUBSTR(SRCH,PLACE2+1,LNGTH);
         END;
      END;
      ELSE DO;
         PLACE=INDEX(TEMPVAR,"CODE");
         SCORE=SUBSTR(TEMPVAR,PLACE-5,3);
         COLOR='.';
      END;
      IF COLOR='663300' THEN SIG_=.;
      ELSE IF COLOR='cc0000' THEN SIG_=-1;
      ELSE IF COLOR='009933' THEN SIG_=1;
      ELSE IF COLOR='.' THEN SIG_=0;
      IF SCORE='***' THEN SCORE_=.;
      ELSE IF SCORE='>**' THEN SCORE_=.;
      ELSE IF SCORE='**' THEN SCORE_=.;
      ELSE IF SCORE='NA' THEN SCORE_=.A;
      ELSE IF SCORE='>NP' THEN SCORE_=.P;
      ELSE SCORE_=SCORE;
   RUN;

   PROC SORT DATA=TESTFILE;
      BY ORDER;
   RUN;


   DATA TESTFILE;
      SET TESTFILE;
      BY ORDER;
      IF FIRST.ORDER;
   RUN;

   DATA MERGED(KEEP=ORDER SIG SIG_ SCORE SCORE_ SCORE1 REGCAT BENEFIT BENTYPE);
      MERGE TESTFILE(IN=IN1)
            IN.TOTAL_C;
      BY ORDER;
      IF IN1;
      LENGTH SCORE1 3;
      SCORE1=ROUND(SCORE);
      IF (SIG=. AND SIG_=0) THEN SIG_=.;
      ELSE IF (SIG=0 AND SIG_=.) THEN SIG_=0;
      IF (SCORE1=. AND (SCORE_=.A OR SCORE_=.P)) THEN SCORE_=.;
   RUN;

   TITLE1 "Validate child DoD Health Survey Scores/Report Cards (6244-410)";
   TITLE2 "Program Name: QC_CHILD.SAS By Daniele Beahm";
   TITLE3 "Program Inputs: TOTAL_C.SD2 - Scores Database in WEB Layout and report card HTML
files";
   TITLE4 &TITLE;

   PROC COMPARE DATA=MERGED BRIEF;
      VAR SIG;
      WITH SIG_;
   RUN;
```

```
PROC COMPARE DATA=MERGED BRIEF;
   VAR SCORE1;
   WITH SCORE_;
RUN;

PROC PRINT DATA=MERGED;
WHERE SIG NE SIG_;
VAR REGCAT BENEFIT BENTYPE SIG SIG_;
TITLE " WHERE SIG NOT EQUAL TO SIG_";
RUN;

PROC PRINT DATA=MERGED;
WHERE SCORE1 NE SCORE_;
VAR REGCAT BENEFIT BENTYPE SCORE SCORE1 SCORE_;
TITLE " WHERE SCORE1 NOT EQUAL TO SCORE_";
RUN;


X "DEL QC_CHILD.DAT";
X "CD ..\..";

%MEND COMPARE;

%COMPARE(INCOND=F*-*,TITLE="FRAMES VERSION");
%COMPARE(INCOND=P*-*,TITLE="NON-FRAMES VERSION");
```