



Cumulative Results

Locations	78
Collected	4,064
Tested	3,995

Influenza A 720

A(H1N1)pdm09	619
A(H1N1)pdm09 & B	1
A(H1N1)pdm09 & Coronavirus	1
A(H1N1)pdm09 & Parainfluenza	1
A(H3N2)	97
A(H3N2) & B	1

Influenza B* 340

B	339
B & Adenovirus	1

Other Respiratory Pathogens 923

Adenovirus	150
<i>Bordetella pertussis</i>	1
<i>Chlamydomydia pneumoniae</i>	2
Coronavirus	83
Human Metapneumovirus	82
<i>Mycoplasma pneumoniae</i>	53
Parainfluenza	91
RSV	129
Rhino/Enterovirus	209
Non-influenza Viral Coinfections	107
Non-influenza Bacterial Coinfections	16
-B. pertussis (3)	
-B. pertussis & M. pneumo (1)	
-C. pneumo (2)	
-C. pneumo & M. pneumo (1)	
-M. pneumo (9)	

Lab data are current as of 2 May 2016. Results are preliminary and may change as more results are received.

*Influenza B lineages will be reported in the periodic molecular sequencing reports.

Respiratory Highlights

17 - 30 April 2016 (Surveillance Weeks 16 & 17)

- During 17 - 30 April 2016, a total of 180 specimens were collected and received from 38 locations. Results were finalized for 153 specimens from 36 locations. During Week 16, 14 influenza A(H1N1)pdm09, three A(H3N2), and 23 influenza B viruses were identified. Five influenza A(H1N1)pdm09, two A(H3N2), and nine influenza B viruses were identified during Week 17. Approximately 38% of specimens tested positive for influenza during Week 16. The percent positive for Week 17 decreased to approximately 22%. The influenza percent positive for the season is currently 27%.
- A double-blind, multicenter, randomized, placebo-controlled study was conducted to assess whether laninamivir (a long-acting neuraminidase inhibitor) is effective for post-exposure prophylaxis to prevent the development of influenza. Study participants, family members who had cohabitated with an influenza patient within 48 hours of symptom onset, were randomized to one of three groups: single dose of 40mg laninamivir, 20mg of laninamivir once daily for two days, or placebo. The proportions of participants who developed influenza were 4.5%, 4.5%, and 12.1% respectively (Kashiwagi, et al. [Clinical Infectious Diseases](#). 26 April 2016, cited 3 May 2016).
- A recent study published in [PLOS One](#) aimed to further explore influenza seasonality in the tropics and subtropics, as the evidence-base needed to inform vaccination timing and formulation decisions in these areas is often lacking. Peak activity was ascertained for 70 of 138 countries. Fifty-four countries had one or two peaks, and countries near the equator had secondary peaks or year-round activity (Hirve, et al. 27 April 2016, cited 3 May 2016).

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DoD Global, Laboratory-Based, Influenza Surveillance Program

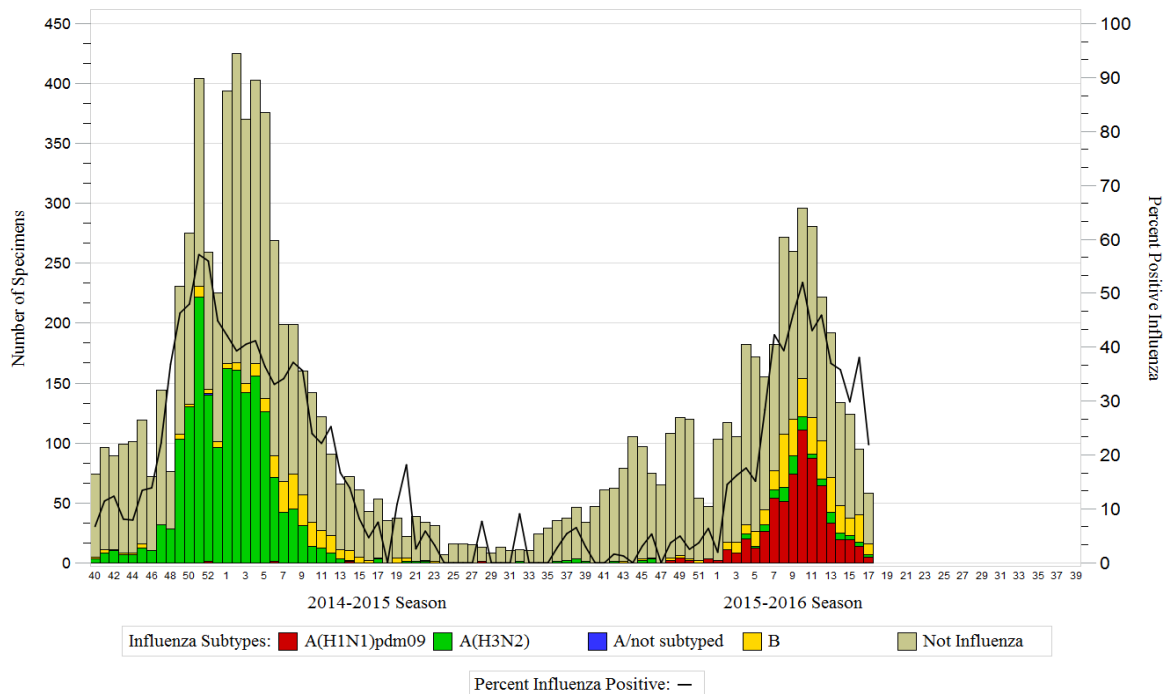
Table 1. Results by region and location for specimens collected during Weeks 16 & 17

Region*		A(H1N1)pdm09	A(H3N2)	B	Adenovirus	Coronavirus	hMVN	Parainfluenza	RSV	Rhinovirus/Enterovirus	Adeno & hMVN	Adeno & Rhino/Entero	Corona & Para & Rhino/Entero	Corona & Rhino/Entero	Para & Rhino/Entero	No Pathogen	Total
PACOM	Kadena AB, Japan	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2
	Yokota AB, Japan	-	-	-	1	-	-	1	-	-	-	-	-	-	-	1	3
Region 1	Hanscom AFB, MA	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1
	USCG Academy, CT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Region 2	JB McGuire-Dix-Lakehurst, NJ	1	1	5	1	-	-	-	-	-	-	-	-	-	-	3	11
	USMA - West Point, NY	3	-	4	5	-	1	1	-	5	-	-	1	-	1	4	25
Region 3	Dover AFB, DE	1	-	1	-	-	-	-	-	-	-	-	-	-	-	1	3
	JB Langley-Eustis, VA	2	-	2	-	-	-	-	-	2	-	-	-	-	-	1	7
	NMC Portsmouth, VA	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3
Region 4	CGS Mobile, AL	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	2
	Columbus AFB, MS	1	-	-	-	-	-	-	1	-	-	-	-	-	-	1	3
	Eglin AFB, FL	-	-	1	-	-	-	-	-	1	-	-	-	-	-	1	3
	Ft Bragg, NC	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	2
	Hurlburt Field, FL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	JB Charleston (AF), SC	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Maxwell AFB, AL	-	-	1	1	-	-	-	-	1	-	-	-	-	-	6	9
	Moody AFB, GA	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
	Robins AFB, GA	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
	Seymour Johnson AFB, NC	2	-	1	-	-	-	-	-	-	-	-	-	-	-	1	4
	Wright-Patterson AFB, OH	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2
Region 6	Altus AFB, OK	-	-	1	-	-	-	3	-	1	-	-	-	-	-	-	5
	Cannon AFB, NM	-	1	-	-	-	-	1	-	1	1	-	-	-	-	1	5
	Little Rock AFB, AR	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3
	Sheppard AFB, TX	-	-	5	1	-	-	-	-	3	-	-	-	1	-	3	13
	Tinker AFB, OK	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	2
Region 7	Offutt AFB, NE	2	-	-	-	-	1	-	-	-	-	-	-	-	-	3	6
Region 8	Ellsworth AFB, SD	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2
	FE Warren AFB, WY	-	1	1	-	-	-	-	-	1	-	-	-	-	-	1	4
	Hill AFB, UT	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2	4
	Minot AFB, ND	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	2
	Peterson AFB, CO	-	-	1	-	1	1	-	-	-	-	1	-	-	-	1	5
Region 9	Luke AFB, AZ	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	2
	Travis AFB, CA	1	-	-	-	-	-	-	-	1	-	-	-	-	-	1	3
Region 10	Fairchild AFB, WA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	Mt Home AFB, ID	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	NH Bremerton, WA	-	1	1	-	-	-	-	-	1	-	-	-	-	-	4	7
Total		19	5	32	10	2	3	7	2	20	1	2	1	1	1	47	153

*CONUS locations are based on Health & Human Services regions. Other locations are defined by COCOM.

Laboratory Results - Cumulative for Season

Graph 1. Percent influenza positive by week: 2014-2015 surveillance year and through Week 17 of the 2015-2016 surveillance year



Note: Dual influenza coinfections are excluded from this graph. Specimens with pending results are used in the denominator to calculate percent positive, but are not displayed in the graph.

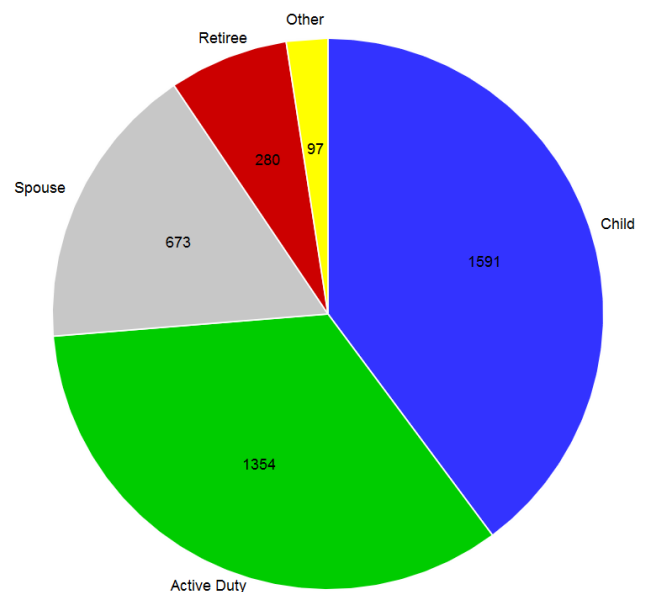
Table 2. ILI by age group for the 2015-2016 surveillance year through Week 17

Age Group	Frequency	Percent
0-5	905	22.65
6-9	316	7.91
10-17	373	9.34
18-24	541	13.54
25-44	1286	32.19
45-64	468	11.71
65+	106	2.65

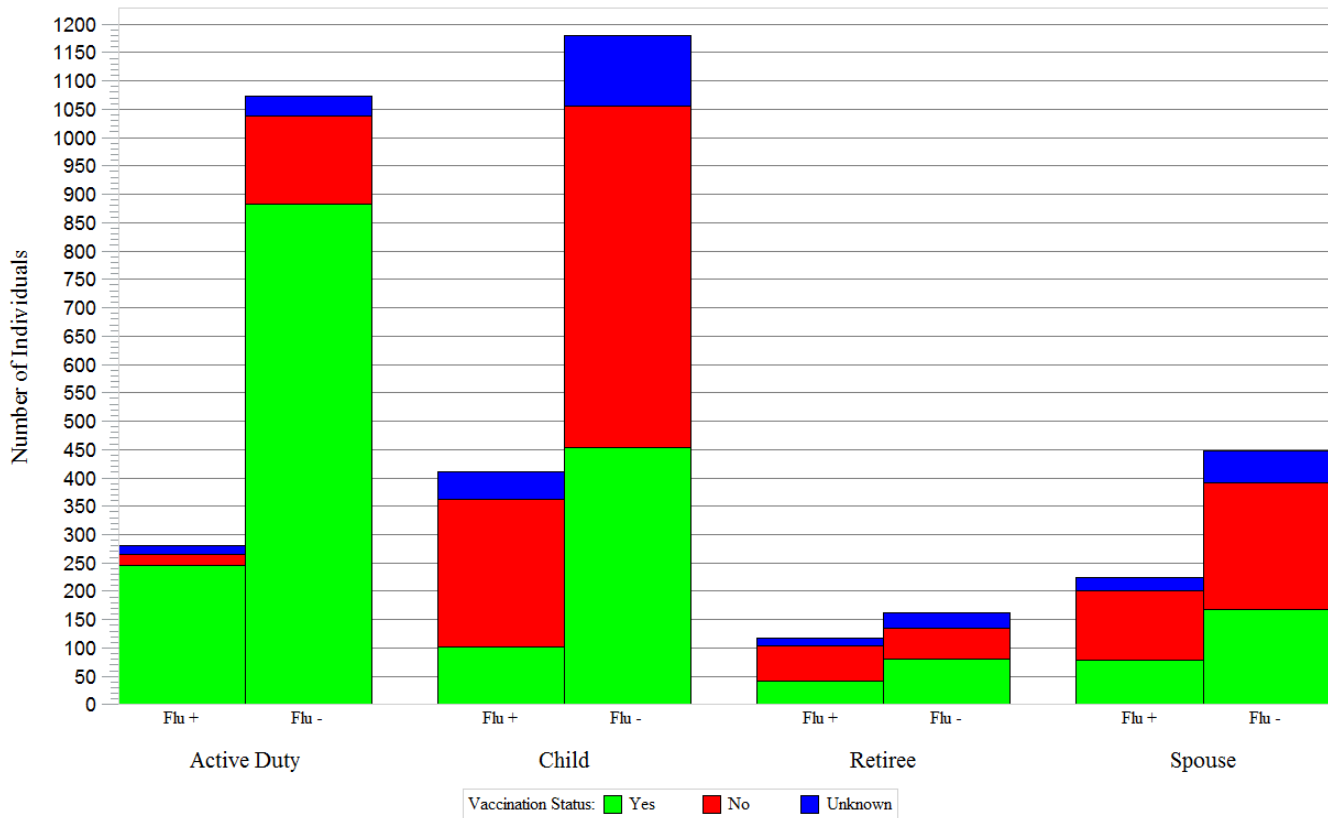
Demographic Summary

Of 3,995 ILI cases, 1,354 are service members (33.9%), 1,591 are children (39.8%), 673 are spouses (16.9%), and 377 (9.4%) are retirees and other beneficiaries. The median age of ILI cases with known age (n=3,995) is 23 (range 0, 95).

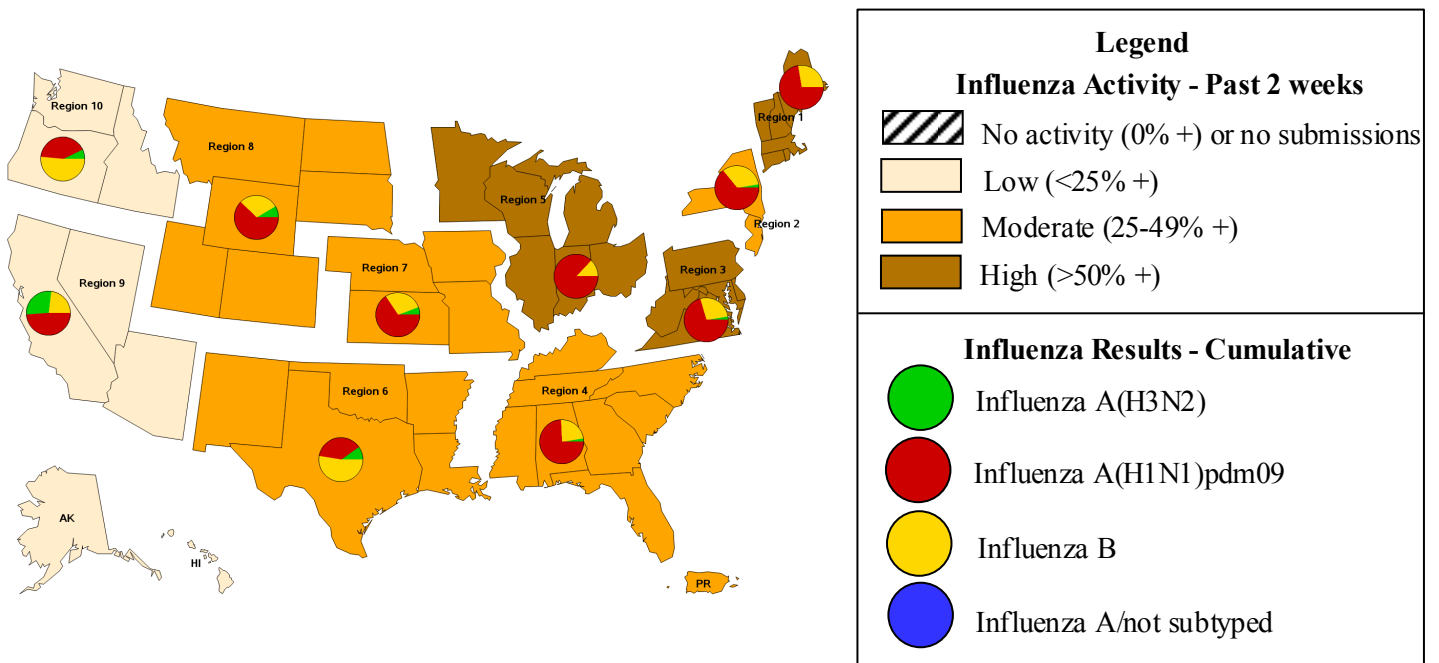
Graph 2. ILI by beneficiary status for the 2015-2016 surveillance year through Week 17



Graph 3. Vaccination status by beneficiary type for the 2015-2016 surveillance year through Week 17

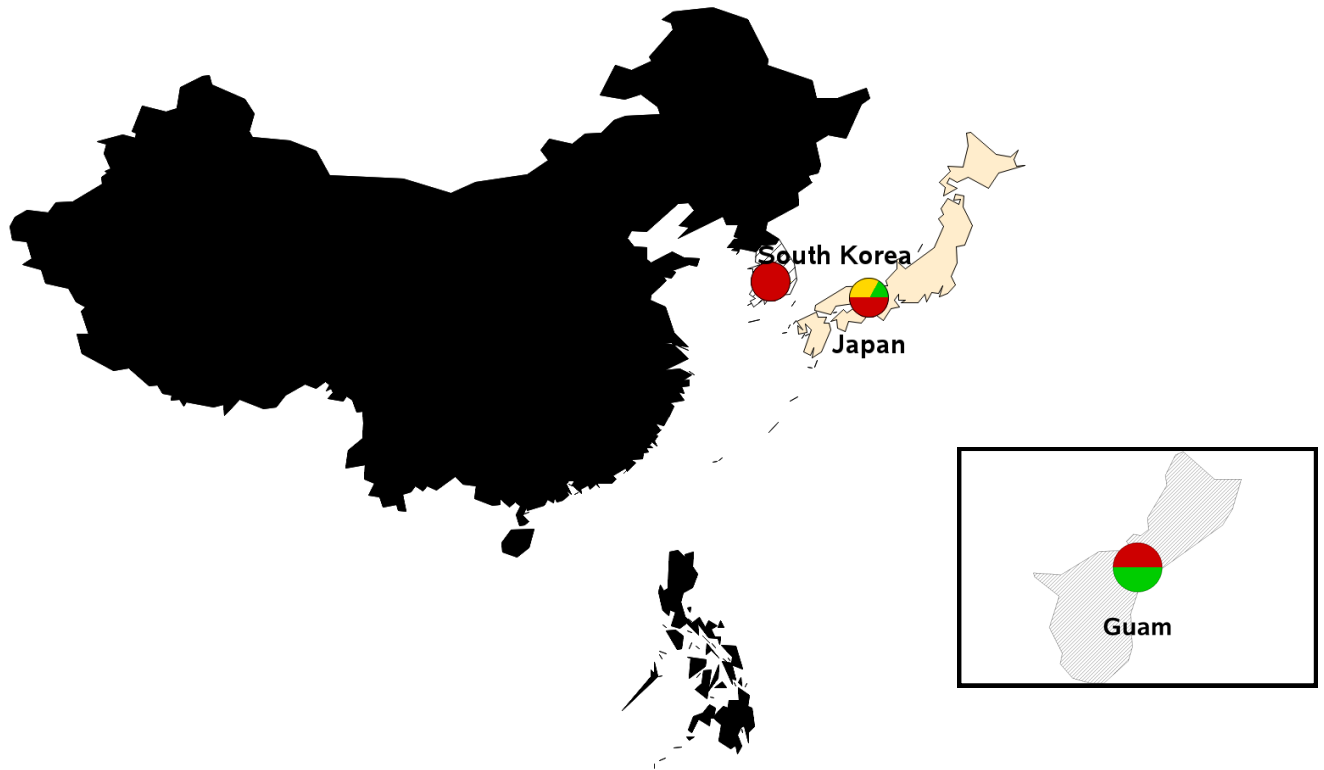


Map 1. Influenza subtypes and activity level by region for the 2015-2016 surveillance year through Week 17*

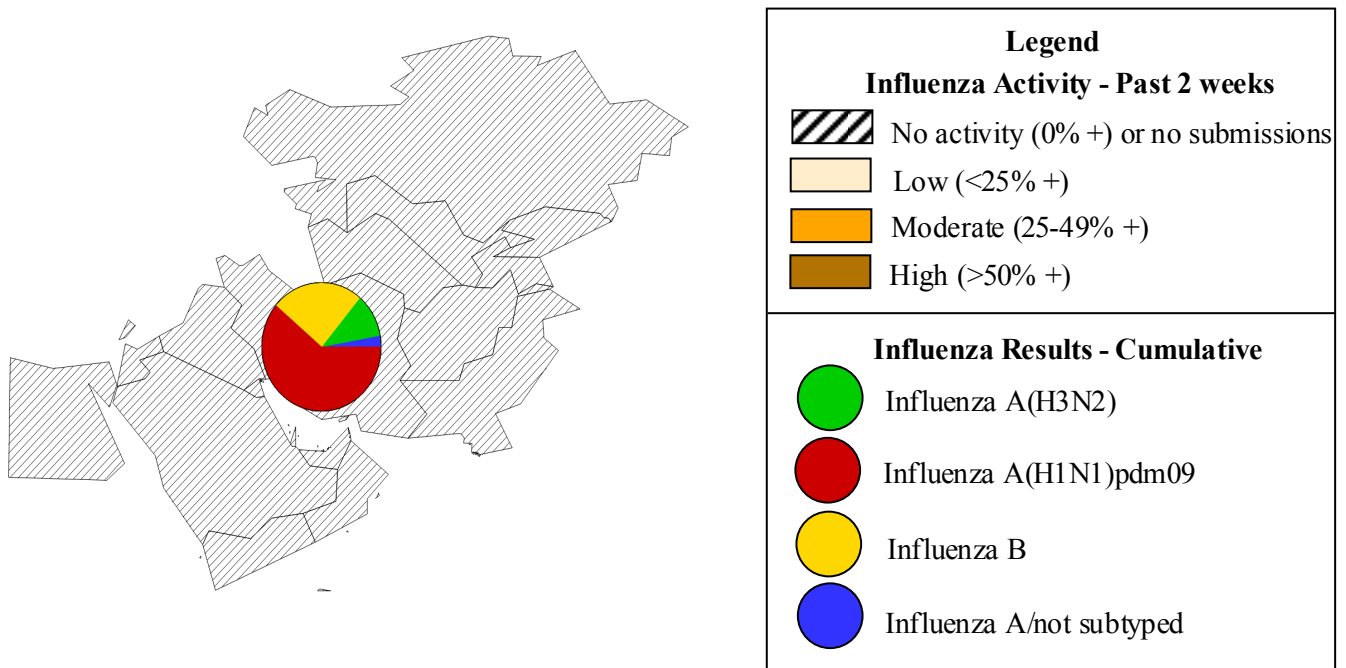


*Due to the receipt of a small number of specimens from Regions 1, 3, and 5 that subsequently tested positive for influenza, flu activity level appears inflated.

Map 2. Influenza subtypes and activity level by country for the 2015-2016 surveillance year through Week 17 (Pacific)



Map 3. Influenza subtypes and activity level for CENTCOM for the 2015-2016 surveillance year through Week 17



Note - Specimens for CENTCOM were tested at USAFSAM or Landstuhl Regional Medical Center (LRMC).

DoD Global, Laboratory-Based, Influenza Surveillance Program

Laboratory Results—Through Current Surveillance Week 17

Table 3. Cumulative results by region and location for specimens collected during the 2015-2016 surveillance year

Region*		A(H1N1)pdm09	A(H3N2)	A(H1N1)pdm09 & B	A(H1N1)pdm09 & Corona	A(H1N1)pdm09 & Para	A(H3N2) & B	B	B & Adeno	Adenovirus	B. pertussis	C. pneumoniae	Coronavirus	hMPV	M. pneumoniae	Parainfluenza	RSV	Rhinovirus/Enterovirus	Non-Influenza Bacterial Coinfection	Non-Influenza Viral Coinfection	No Pathogen	Total	
Deployed	Country 2, Location A	8	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	14	
PACOM	CFA Okinawa, Japan	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	10	12	
	Eielson AFB, AK	4	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5	11	
	JB Elmendorf-Richardson, AK	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	5	7	
	JR Marianas - Andersen AFB, Guam	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	4	
	JR Marianas - NH Guam, Guam	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
	Kadena AB, Japan	2	1	-	-	-	-	2	-	-	-	-	-	2	-	3	-	-	2	-	1	18	31
	Kunsan AB, South Korea	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
	Misawa AB, Japan	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	-	-	5	11
	Osan AB, South Korea	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	6
	USCG Base Kodiak, AK	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Yokota AB, Japan	17	5	-	-	-	-	12	-	8	-	-	4	-	2	4	2	3	-	2	32	91		
Region 1	Hanscom AFB, MA	9	-	-	-	-	-	5	-	4	-	-	-	-	1	2	2	-	-	2	26	51	
	NHCNE Newport, RI	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	11	14	
	USCG Academy, CT	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	11	
Region 2	Ft Drum, NY	12	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	3	-	-	7	25	
	JB McGuire-Dix-Lakehurst, NJ	30	1	-	-	-	-	15	1	3	-	-	1	3	3	-	-	9	1	3	45	115	
	USMA - West Point, NY	55	3	-	-	1	-	33	-	23	-	-	9	8	4	6	11	13	3	7	162	338	
Region 3	Dover AFB, DE	24	-	-	-	-	-	7	-	3	-	1	-	2	-	1	2	1	-	1	80	122	
	JB Anacostia-Bolling, DC	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	1	4	
	JB Andrews, MD	7	-	-	-	-	-	3	-	2	-	-	-	2	1	-	2	-	-	-	12	29	
	JB Langley-Eustis, VA	18	-	-	-	-	-	8	-	9	-	-	4	7	3	5	8	8	2	3	56	131	
	NCRM - Walter Reed NMMC, MD	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	5	
	NMC Portsmouth, VA	6	1	-	-	-	-	4	-	4	-	-	1	1	5	1	2	2	1	1	24	53	
Region 4	CGS Mobile, AL	1	2	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	2	7
	Columbus AFB, MS	6	-	-	-	-	-	-	-	2	-	-	1	1	-	-	2	3	-	-	21	36	
	Eglin AFB, FL	7	-	-	-	-	-	2	-	6	-	-	1	1	1	4	7	6	-	1	64	100	
	Ft Bragg, NC	8	-	-	-	-	-	11	-	4	-	-	4	1	1	-	3	2	1	1	39	75	
	Ft Campbell, KY	24	1	-	-	-	-	9	-	1	-	-	4	2	-	2	1	4	-	-	43	91	
	Hurlburt Field, FL	7	-	-	-	-	-	2	-	4	-	1	-	2	4	-	1	-	-	2	32	55	
	JB Charleston (AF), SC	4	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
	Keesler AFB, MS	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	2	-	1	31	37
	MacDill AFB, FL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	1	4	
	Maxwell AFB, AL	22	1	-	1	-	-	2	-	5	-	-	1	-	-	1	2	4	-	1	61	101	
	Moody AFB, GA	13	-	-	-	-	-	6	-	7	-	-	2	1	2	2	6	11	-	6	34	90	
	NH Beaufort, SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	NH Camp Lejeune, NC	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	-	-	8	13	
	NH Jacksonville, FL	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	1	-	-	-	8	12	
	Patrick AFB, FL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
	Robins AFB, GA	6	-	-	-	-	-	1	-	-	-	-	-	-	-	2	1	1	-	-	16	27	
	Seymour Johnson AFB, NC	12	-	-	-	-	-	1	-	2	-	-	2	-	-	-	-	3	1	1	13	35	
	Shaw AFB, SC	2	-	-	-	-	-	1	-	-	-	-	4	-	4	-	-	4	1	1	11	28	
	Tyndall AFB, FL	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	3	6	

*CONUS locations are based on Health & Human Services regions. Other locations are defined by COCOM.

Cont'd on page 7

DoD Global, Laboratory-Based, Influenza Surveillance Program

Laboratory Results—Through Current Surveillance Week 17

Table 3. Cumulative results by region and location for specimens collected during the 2015-2016 surveillance year
(Cont'd from page 6)

Region*		A(H1N1)pdm09	A(H3N2)	A(H1N1)pdm09 & B	A(H1N1)pdm09 & Corona	A(H1N1)pdm09 & Para	A(H3N2) & B	B	B & Adeno	Adenovirus	B. pertussis	C. pneumoniae	Coronavirus	hMPV	M. pneumoniae	Parainfluenza	RSV	Rhinovirus/Enterovirus	Non-Influenza Bacterial Coinfection	Non-Influenza Viral Coinfection	No Pathogen	Total
Region 5	Scott AFB, IL	5	-	-	-	-	-	1	-	2	-	-	-	1	-	1	1	1	-	-	20	31
	Wright-Patterson AFB, OH	15	-	-	-	-	-	2	-	2	-	-	-	1	1	1	1	3	-	-	28	54
Region 6	Altus AFB, OK	7	-	-	-	-	-	4	-	4	-	-	3	5	-	6	10	8	-	5	71	123
	Barksdale AFB, LA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	5	6
	Cannon AFB, NM	13	4	1	-	-	-	12	-	2	-	-	2	4	-	1	2	5	-	7	44	97
	Laughlin AFB, TX	1	5	-	-	-	-	2	-	1	-	-	1	-	-	-	2	1	-	-	8	21
	Little Rock AFB, AR	5	1	-	-	-	-	1	-	-	-	-	1	1	-	-	-	1	-	-	27	37
	Sheppard AFB, TX	8	-	-	-	-	-	31	-	10	-	-	3	3	3	1	5	14	-	6	93	177
	Tinker AFB, OK	4	-	-	-	-	-	3	-	6	-	-	1	-	1	6	7	5	1	6	47	87
	USCG New Orleans, LA	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
	Vance AFB, OK	1	-	-	-	-	-	1	-	2	-	-	-	2	-	1	-	2	-	-	44	53
Region 7	Ft Leavenworth, KS	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	9	11
	McConnell AFB, KS	5	-	-	-	-	-	4	-	1	-	-	1	-	2	2	-	7	1	-	35	58
	Offutt AFB, NE	18	2	-	-	-	-	5	-	2	-	-	2	2	-	3	1	3	-	-	70	108
Region 8	Ellsworth AFB, SD	16	2	-	-	-	-	2	-	3	-	-	1	4	1	7	2	-	-	5	44	87
	FE Warren AFB, WY	19	3	-	-	-	-	7	-	1	1	-	3	2	1	3	7	5	-	3	52	107
	Hill AFB, UT	38	6	-	-	-	-	32	-	3	-	-	2	3	1	-	2	12	1	1	120	221
	Malmstrom AFB, MT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	2
	Minot AFB, ND	7	-	-	-	-	-	-	-	-	-	-	2	1	-	1	2	3	-	1	12	29
	Peterson AFB, CO	14	2	-	-	-	1	2	-	2	-	-	5	1	-	-	1	5	-	5	40	78
	USAF Academy, CO	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4	-	1	-	-	12	18
Region 9	Beale AFB, CA	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3
	CGS Humboldt Bay, CA	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Davis-Monthan AFB, AZ	4	8	-	-	-	-	1	-	-	-	-	4	-	-	-	-	1	-	1	16	35
	Edwards AFB, CA	1	-	-	-	-	-	1	-	-	-	-	1	-	-	-	1	-	-	-	8	12
	Luke AFB, AZ	30	24	-	-	-	-	21	-	2	-	-	-	9	1	1	9	5	-	9	51	162
	NH Twentynine Palms, CA	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
	Nellis AFB, NV	19	2	-	-	-	-	3	-	6	-	-	3	-	-	7	4	8	-	8	80	140
	Travis AFB, CA	19	8	-	-	-	-	10	-	3	-	-	2	9	1	5	7	13	-	6	50	133
	USCG Island Alameda, CA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	Vandenberg AFB, CA	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	11	14
Region 10	Fairchild AFB, WA	6	1	-	-	-	-	6	-	1	-	-	-	1	-	-	-	1	-	-	16	32
	JB Lewis-McChord, WA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
	Mt Home AFB, ID	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	8	11
	NH Bremerton, WA	40	7	-	-	-	-	55	-	4	-	-	2	2	2	10	6	12	1	10	76	227
Total		619	97	1	1	1	1	339	1	150	1	2	83	82	53	91	129	209	16	107	2012	3995

*CONUS locations are based on Health & Human Services regions. Other locations are defined by COCOM.

Monthly EUCOM Respiratory Surveillance Supplemental Report Through 30 April 2016

In cooperation and agreement with U.S. Army Public Health Command Region-Europe (PHCR-E), the DoD Global, Laboratory-based, Influenza Surveillance Program has analyzed data from surveillance sites that submit specimens to Landstuhl Regional Medical Center (LRMC), Germany. LRMC's laboratory is the forward laboratory for military sites in Europe. Lab results are preliminary and may change as more results are received.

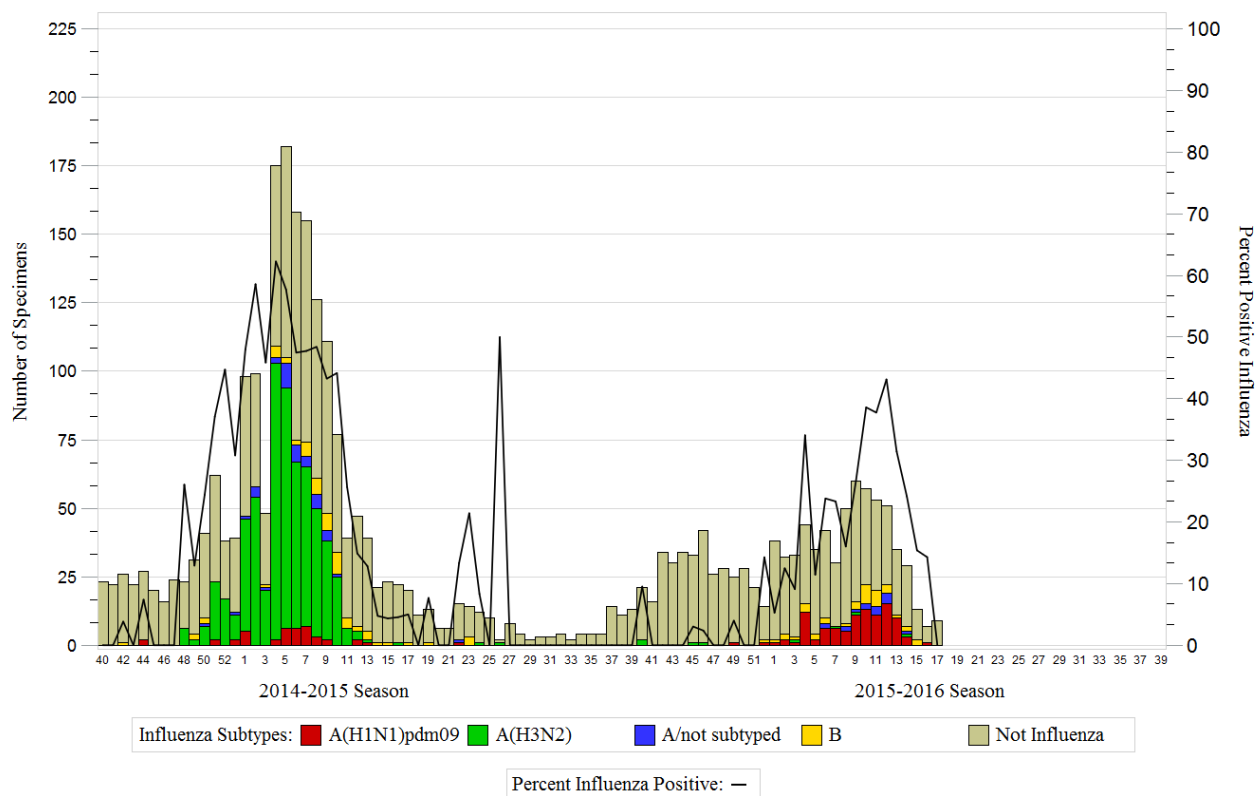
Table 4. Results by region and location for specimens collected and finalized during Weeks 14-17

Region		A(H1N1)pdm09	A(H3N2)	A/not subtyped	B	B & hMN	Adenovirus	hMN	RSV	Rhinovirus/Enterovirus	Adeno & Rhino/Entero	RSV & Rhino/Entero	No Pathogen	Total
Deployed	Country 6, Location A	-	1	-	-	-	-	1	-	-	-	-	9	11
EUCOM	Landstuhl RMC, Germany	-	-	-	1	-	-	1	1	3	1	1	10	18
	NAVSTA Rota, Spain	-	-	-	-	-	-	-	-	-	-	-	1	1
	RAF Lakenheath, England	-	-	-	-	1	2	1	-	-	-	-	7	11
	Ramstein AB, Germany	2	-	1	-	-	-	-	-	-	-	-	1	4
	USAG Stuttgart, Germany	1	-	-	1	-	-	-	-	-	-	-	5	7
	Vilseck AHC, Germany	1	-	-	1	-	-	-	-	2	-	-	2	6
Total		4	1	1	3	1	2	3	1	5	1	1	35	58

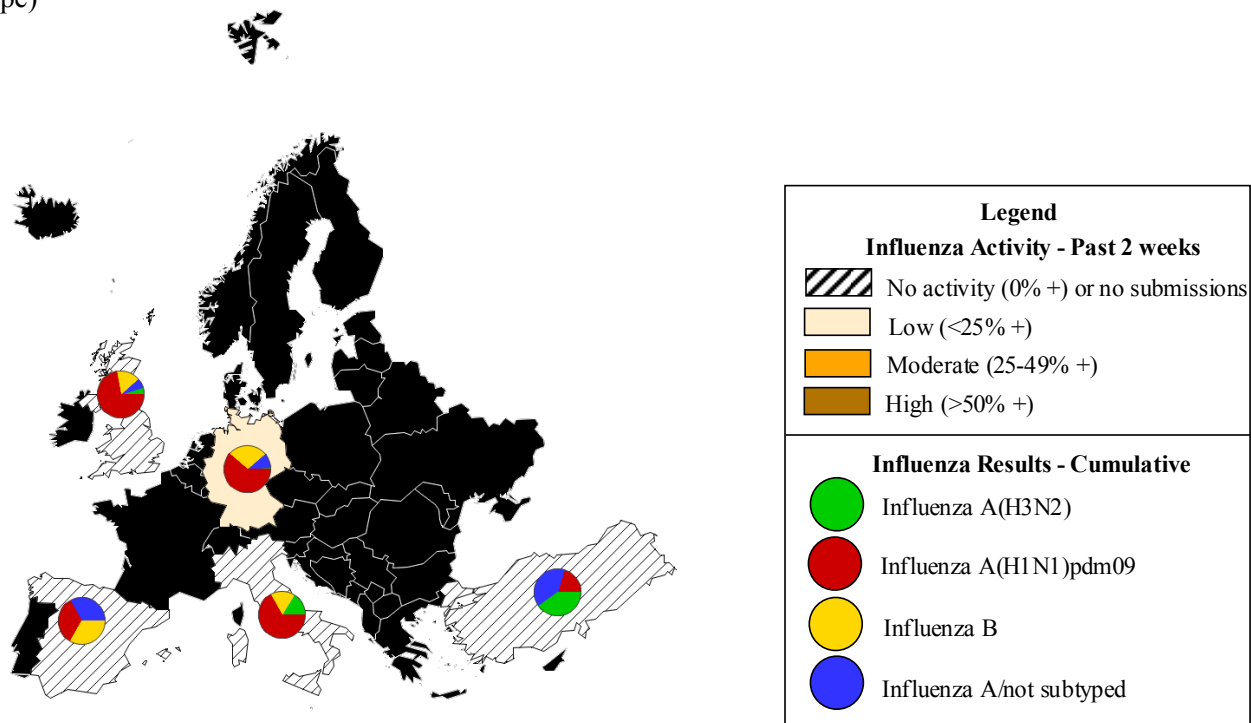
Table 5. Cumulative results by region and location for specimens collected during the 2015-2016 surveillance year

Region		A(H1N1)pdm09	A(H3N2)	A/not subtyped	A/not subtyped & hMNV	A/not subtyped & Para	A/not subtyped & RSV	A/not subtyped & Rhino/Entero	A(H1N1)pdm09 & B	A(H1N1)pdm09 & hMNV	A(H1N1)pdm09 & Para & Rhino/Entero	A(H1N1)pdm09 & RSV	A(H1N1)pdm09 & Rhino/Entero	A(H3N2) & Rhino/Entero	A/not subtyped & B	B	B & hMNV	B & Rhino/Entero	Adenovirus	hMNV	Parainfluenza	RSV	Rhinovirus/Enterovirus	Adeno & RSV	Adeno & RSV & Rhino/Entero	Adeno & Rhino/Entero	hMNV & Para	hMNV & Rhino/Entero	Para & Rhino/Entero	RSV & Rhino/Entero	No Pathogen	Total			
Deployed	Country 2, Location A	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7		
	Country 6, Location A	13	2	1	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	2	1	20	-	-	-	-	-	-	-	51	93		
EUCOM	Aviano AB, Italy	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	8		
	Incirlik AB, Turkey	-	1	1	-	-	1	-	-	-	-	1	1	1	-	-	-	-	-	-	5	1	7	7	-	-	-	-	-	-	-	9	34		
	Landstuhl RMC, Germany	17	-	1	2	-	-	-	-	-	-	1	-	-	1	7	-	-	-	3	6	7	19	27	-	-	1	-	1	3	3	112	211		
	NAVSTA Rota, Spain	1	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	3	1	4	-	-	-	-	-	-	-	-	11	24	
	NSA Naples, Italy	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1	4	-	-	-	-	-	-	-	-	13	23	
	RAF Lakenheath, England	26	2	1	-	1	-	1	-	3	-	1	1	-	-	6	1	-	7	15	10	23	52	1	-	-	-	-	1	3	19	105	279		
	Ramstein AB, Germany	3	-	2	-	-	-	-	-	-	-	-	-	-	-	4	-	-	1	2	2	3	11	-	-	-	-	-	-	-	-	1	24	53	
	Spangdahlem AB, Germany	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	1	-	-	-	-	-	1	-	-	6	11	
	USAG Stuttgart, Germany	13	-	1	-	-	-	-	-	-	1	-	-	-	1	2	-	-	2	6	3	4	15	-	-	-	-	-	1	-	-	-	36	85	
	USAG Vicenza, Italy	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	1	5	-	-	-	-	1	1	3	3	2	44	128
	Vilseck AHC, Germany	12	-	1	-	-	1	-	1	-	-	2	-	1	8	-	-	-	-	1	5	6	12	22	1	1	1	1	3	3	2	44	128		
Total		90	7	9	2	1	2	1	1	3	1	1	5	1	3	35	1	1	16	45	35	72	168	2	1	2	1	7	9	25	426	973			

Graph 4. Percent influenza positive by week: 2014-2015 surveillance year and through Week 17 of the 2015-2016 surveillance year



Map 4. Influenza subtypes and activity level by country for the 2015-2016 surveillance year through Week 17 (Europe)



Background

The DoD-wide program was established by the Global Emerging Infections Surveillance and Response System (GEIS) in 1997. The surveillance network includes the U.S. Air Force School of Aerospace Medicine (USAFSAM) (sentinel site respiratory surveillance), the Naval Health Research Center (recruit and shipboard population-based respiratory surveillance), the Naval Medical Research Unit (NAMRU-3) in Cairo, Egypt, the Naval Medical Research Unit (NAMRU-2) in Phnom Penh, Cambodia, the Armed Forces Research Institute of Medical Sciences (AFRIMS) in Bangkok, Thailand, the Naval Medical Research Unit (NAMRU-6) in Lima, Peru, and the United States Army Medical Research Unit-Kenya (USAMRU-K) located in Nairobi, Kenya. This work is supported by the Air Force and GEIS Operations, a Division of the Armed Forces Health Surveillance Branch (AFHSB).

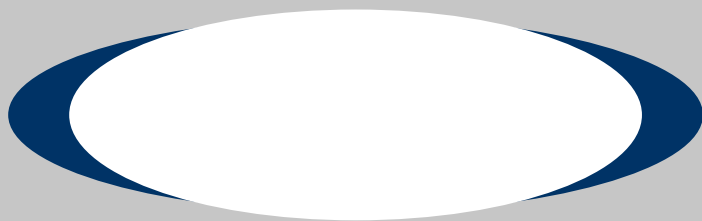
Sentinel Site Surveillance at USAFSAM

In 1976, the U.S. Air Force Medical Service began conducting routine, global, laboratory-based influenza surveillance. Air Force efforts expanded to DoD-wide in 1997. USAFSAM manages the surveillance program that includes global surveillance among DoD beneficiaries at over 95 sentinel sites (including deployed locations) and many non-sentinel sites (please see map below). Collaborating partner laboratories include five DoD overseas medical research laboratories (AFRIMS, NAMRU-2, NAMRU-3, NAMRU-6, USAMRU-K) who collect specimens from local residents in surrounding countries that may not otherwise be covered in existing surveillance efforts. Additionally, the Naval Health Research Center (NHRC) in San Diego, CA collects specimens from DoD recruit training centers and conducts surveillance along the Mexico border.

Landstuhl Regional Medical Center (LRMC) and Tripler Army Medical Center (TAMC) assist USAFSAM by processing DoD specimens for the EUCOM region and the State of Hawaii, respectively. This process seeks to provide more timely results and efficient transport of specimens.

Available on our website (listed below) is a list of previous weekly surveillance reports, program information (including an educational briefing and instruction pamphlets for clinic staff), and a dashboard containing respiratory data for our sentinel sites.

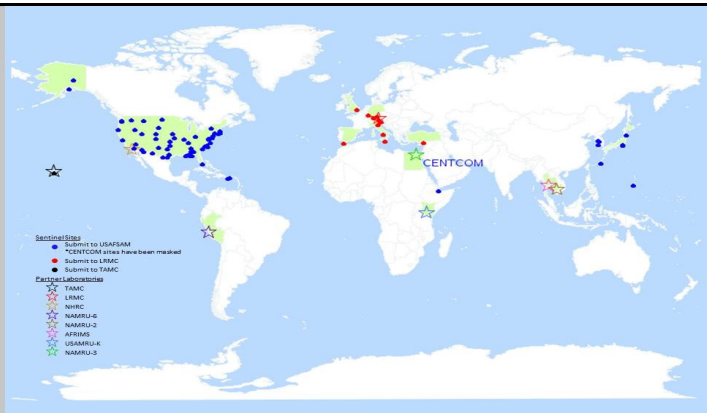
Errata: One specimen was reported as positive for influenza in previous weeks. It has been sequenced and is likely a false positive due to the identification of the vaccine strain—the individual was vaccinated with LAIV four days prior to specimen collection. We have changed the final result to “No Pathogen Detected” to reflect this. We regret the error.



For Public Health Services
937-938-3196; DSN 798-3196

For Laboratory Services
937-938-4140; DSN 798-4140

USAFSAM.PHRFlu@us.af.mil



Collaborating Partners

In addition to all participating DoD military sentinel sites, collaborating laboratories and medical centers (described above) may be further understood by reviewing the sites' website. Click on the sites' icon to be directed to their webpage.

