



DEPARTMENT OF DEFENSE (AFHSB) Seasonal Influenza Surveillance Summary

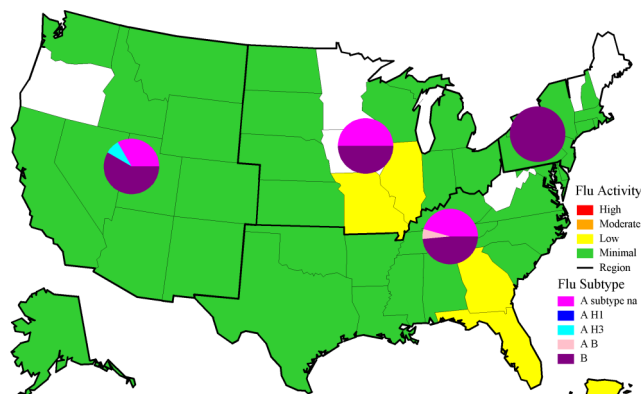


Northern Command -- Week 17 (23 Apr 2017—29 Apr 2017)

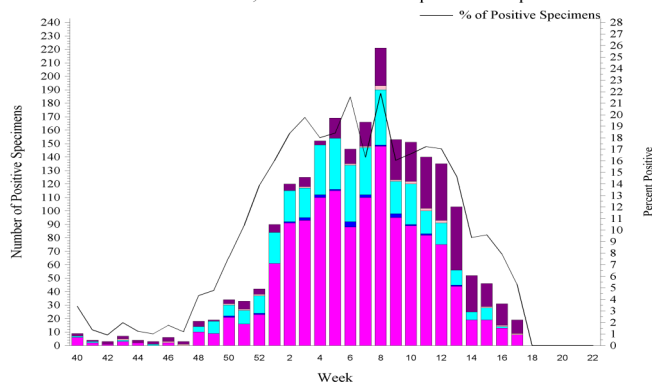
In NORTHCOM during week 17^{1,2}

- ◆ Influenza activity remained minimal for the majority of the U.S.
- ◆ The percentage of outpatient visits due to ILI decreased and was below baseline and similar to the previous season.
- ◆ The percentage of positive lab tests continued to drop to 5.3% for service members and 10.5% for other beneficiaries.
- ◆ One influenza hospitalization (RMEs) among an other beneficiary was reported for week 17.

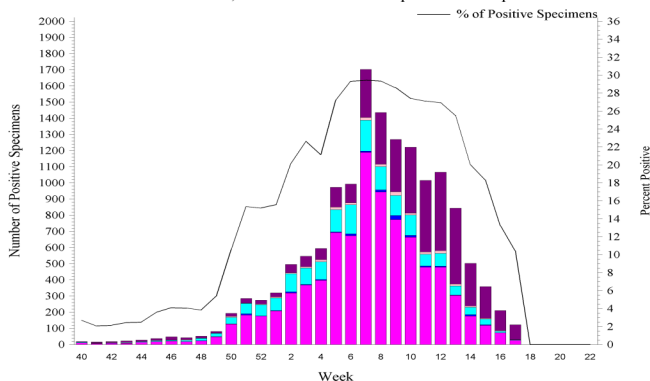
NORTHCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



NORTHCOM Service Members, Influenza Positive Specimens Reported to AFHSB



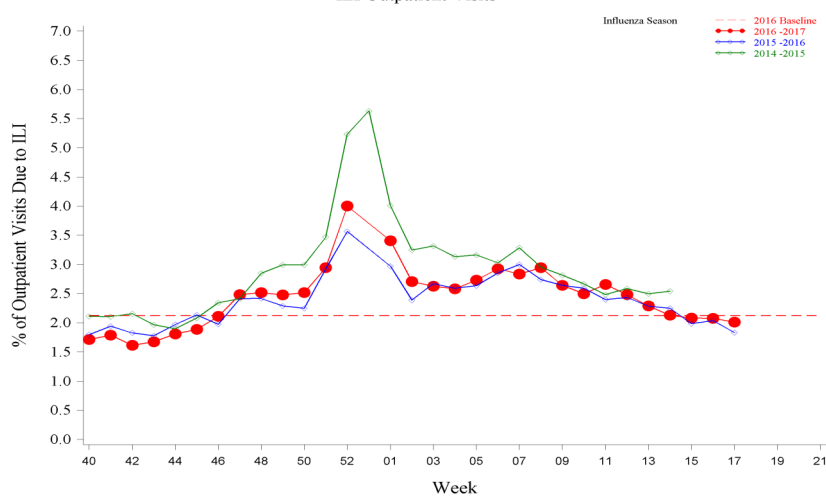
NORTHCOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



2016 – 2017 NORTHCOM Season Totals^{1,2}

	A/H1N1	A/H3N2	A/Untyped	Flu B	AB	Overall % Positive
Service Members	21	423	1355	383	22	13.29
Dependents	142	1841	8546	4049	216	20.99

NORTHCOM Service Members, 2016-2017 and Previous 2 Influenza Seasons
ILI Outpatient Visits



- ◆ NHRC laboratory-confirmed influenza cases, US Military Basic Trainees: As of Week 16

	Week 16 ³				2016 – 2017 Recruit Season Totals ³				
	A/H1N1	A/H3N2	A/unsubtyped	Flu B	A/H1N1	A/H3N2	A/unsubtyped	Flu B	No. Tested
Ft Benning						9		1	146
Ft Jackson						15		2	193
Ft Leonard Wood						6	1		44
NRTC Great Lakes		4				18		3	110
Lackland AFB				1				3	31
MCRD Parris Island						19		2	70
MCRD San Diego						20	1	2	182
CGTC Cape May					1	26		3	135
Total	0	4	0	0	2	113	2	16	911

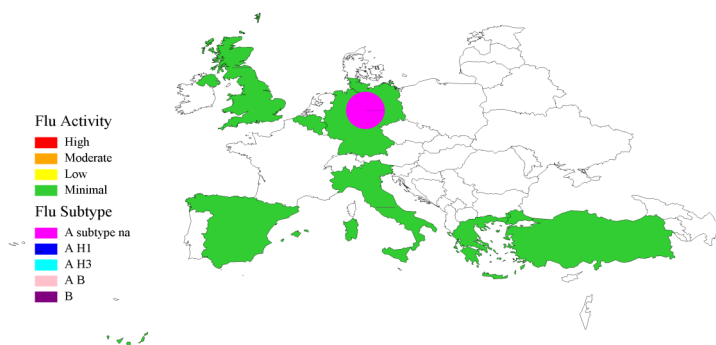
¹AFHSB, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸NAMRU-3, ⁹NAMRU-6

**European Command -- Week 17**

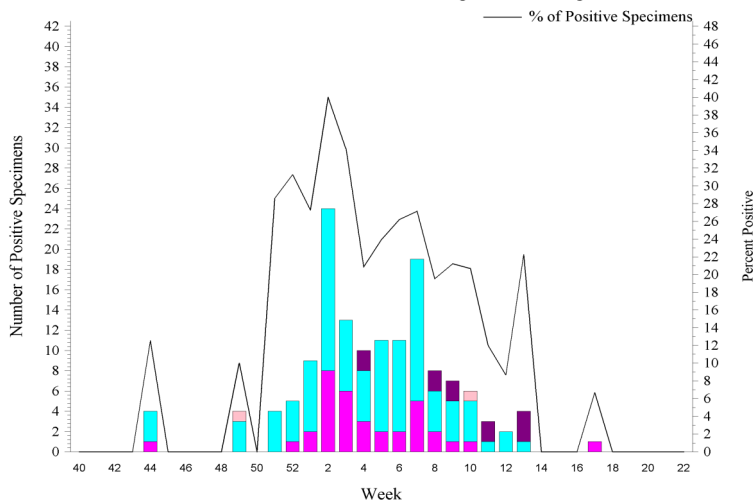
In EUCOM during week 17,^{4,5}

- ♦ Influenza activity was minimal across EUCOM.
- ♦ The percentage of outpatient visits due to ILI increased, but remained below the previous season and baseline.
- ♦ The percentage of positive lab tests was 6.7 and 0.0% for service members and other beneficiaries, respectively, for week 17.
- ♦ A/H3N2 continued to predominate over A/H1N1.

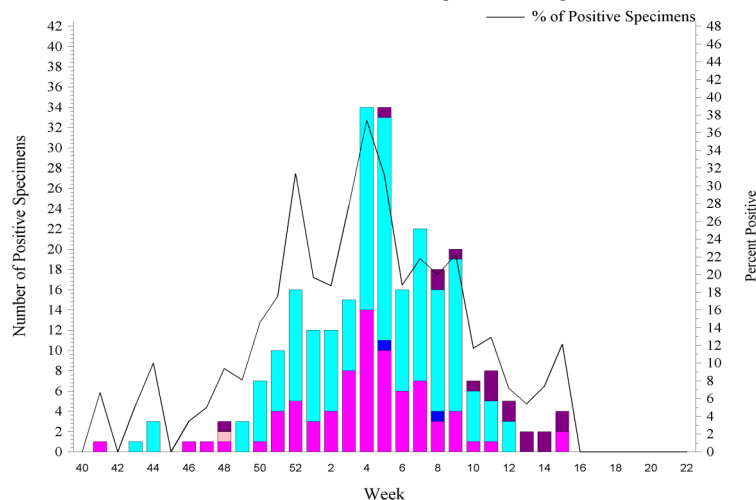
EUCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



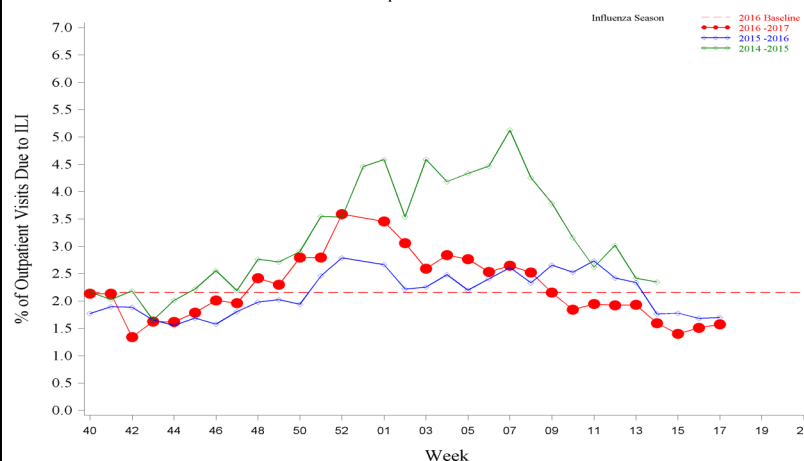
EUCOM Service Members, Influenza Positive Specimens Reported to AFHSB



EUCOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



EUCOM Service Members, 2016-2017 and Previous 2 Influenza Seasons
ILI Outpatient Visits



2016-2017 EUCOM Season Totals^{1,4,5}

	A/H1N1	A/H3N2	A/Untyped	Influenza B	AB	Overall % Positive
Service Members	0	97	35	11	2	18.40
Dependents	2	160	77	17	1	17.49

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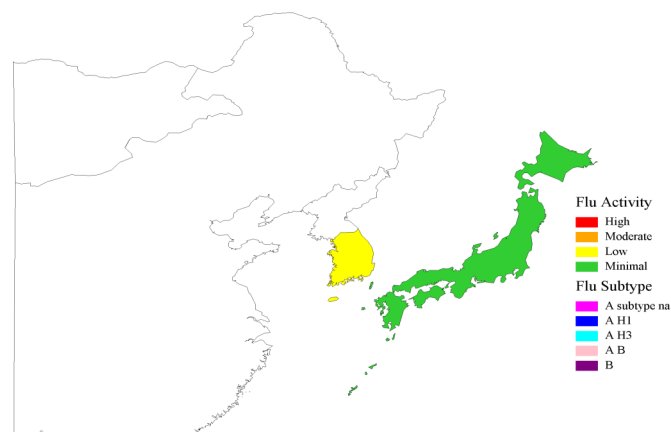
For inquiries or comments please contact dha.ncr.health-surv.mbx.afhs-commcenter@mail.mil

**Pacific Command -- Week 17**

In PACOM during week 17^{1,6,7}

- ◆ Influenza activity was minimal across PACOM except for the ROK, which had low activity.
- ◆ The percentage of outpatient visits due to ILI increased above the previous season, but remained below baseline.
- ◆ The percentage of positive lab tests increased to 4.8% for service members and 22.9% for other beneficiaries.
- ◆ Influenza B predominated in recent weeks.
- ◆ One influenza hospitalization (RMEs) among an other beneficiary was reported for week 17.

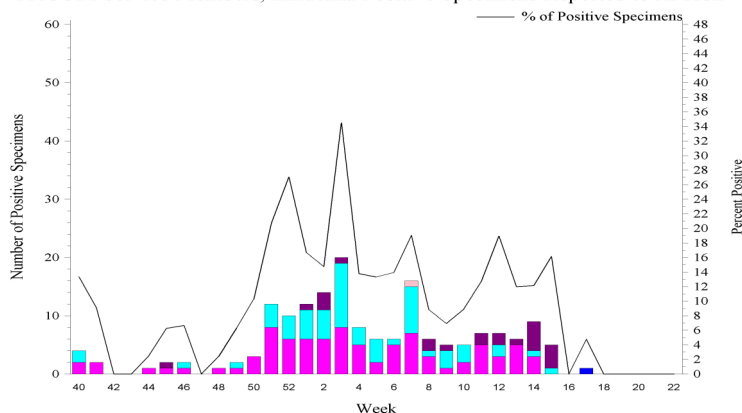
PACOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks
South Korea and Japan



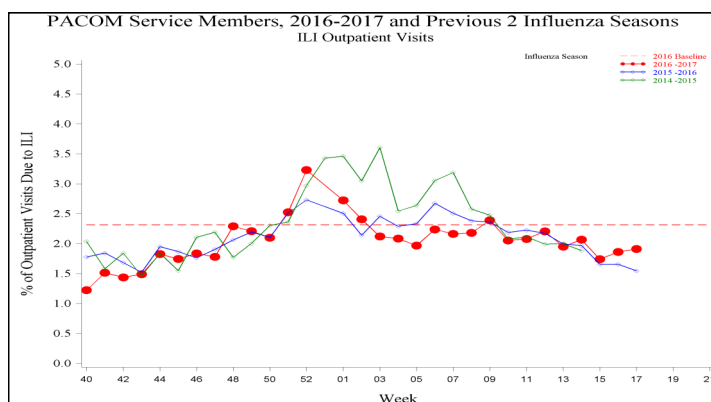
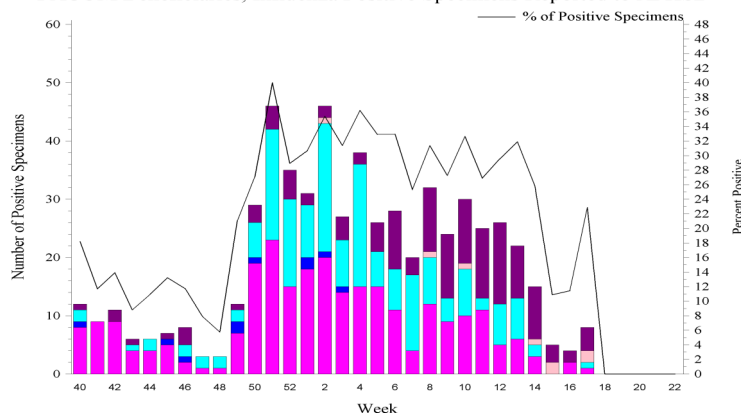
PACOM: Guam and Hawaii Influenza Activity and HL7 Test Positive (MAP: SM+BN, 2 wks)						
Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
Guam	Minimal	0	0	0	0	1
Hawaii*	Minimal	1	1	2	6	0

*Hawaii HL7 Type counts may include samples received from Guam, but tested in Hawaii

PACOM Service Members, Influenza Positive Specimens Reported to AFHSB



PACOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



2016-2017 PACOM Season Totals ^{1,6,7}						
	A/H1N1	A/H3N2	A/Untyped	Flu B	Flu AB	Overall % Positive
Service Members	1	60	87	23	1	12.53
Dependents	10	178	263	135	8	25.53

¹AFHSB, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸NAMRU-3, ⁹NAMRU-6

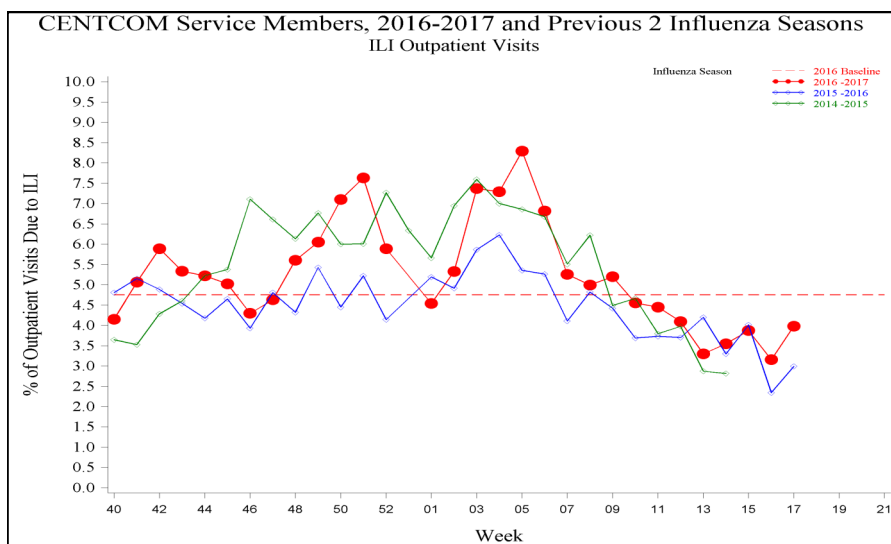
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**Central and Africa Commands -- Week 17**

In CENTCOM and AFRICOM during week 17^{1,8}

- ♦ Influenza activity was minimal for locations with available data in CENTCOM and AFRICOM.
- ♦ The percentage of outpatient visits due to ILI increased above the previous season, but remained below base-line.

CENTCOM, Influenza Activity, During the Last 2 Weeks

**Southern Command -- Week 17**

In SOUTHCOM during week 17⁹

- ♦ Influenza activity was minimal in Honduras this week based on DMSS data.

¹AFHSB, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸NAMRU-3, ⁹NAMRU-6

Description:

Maps, figures and tables are stratified by Combatant Commands (CCMD). The map provides a measure of influenza activity by state or country within each CCMD for the past two weeks for service members. Influenza activity is defined by the percentage of outpatient visits associated with an Influenza-like Illness (ILI) for each week compared to baseline levels of influenza activity. Additionally, a pie graph by US region or country is generated to display the distribution of influenza types and subtype identified from positive laboratory tests for the past two weeks combined.

Influenza activity: Percentage of Outpatient Visits Associated with ILI:

The percentage of all outpatient visits for ILI is calculated each week for all service members, regardless of component. These data are presented as a map of the past two weeks' activity and a figure to display the entire season's data compared to the two prior seasons and baseline. For the map, the activity level compares the mean reported percent of visits due to ILI for the past two weeks to the mean reported percent of visits due to ILI during baseline weeks. Baseline weeks are defined as non-influenza weeks (weeks 22-39) over the past 3 years.

There are four activity levels reported on each map. The activity level corresponds to the number of standard deviations (SD) below, at or above the mean for the current week compared to the mean of the baseline weeks. Activity levels are classified as minimal, low, moderate, and high. Minimal activity corresponds to an influenza percentage that is less than 2 SD above the mean. Low activity corresponds to an influenza percentage that is equal to or greater than 2 SD above the mean, but less than 4 SD above the mean. Moderate activity corresponds to an influenza percentage that is equal to or greater than 4 SD above the mean, but less than 6 SD above the mean. High activity corresponds to an influenza percentage that is equal to or greater than 6 SD above the mean.

Influenza Positive Specimens:

Lab results from PCR, viral culture, and rapid influenza assays are reported. Although the inclusion of rapid tests may underestimate the weekly and cumulative percent positive estimates due to false negatives, visibility of the positive rapid results provides valuable information for this surveillance report. Influenza types/subtypes are categorized as influenza A not subtyped (A subtype na), influenza A/H1 (A H1), influenza A/H3 (A H3), influenza A and B co-infection (A B), and influenza B (B).

Map: Each US region or country with available data contains a pie chart that displays the distribution of influenza types and subtypes for that area for the past two weeks combined. Two weeks of data are combined instead of using just the current week's data due to delays in reporting of laboratory results.

Figure and Table: Each week, using the total number of influenza laboratory tests performed and the positive test results, the proportions positive for each serotype of influenza are calculated for service members and dependents separately.

Data Sources and Case Definitions:

Medical encounter and demographic data from the Armed Forces Health Surveillance Branch's (AFHSB) Defense Medical Surveillance System (DMSS) are used to generate this report. In addition, health-level 7 (HL-7) format laboratory data is provided by the Navy and Marine Corps Public Health Center (NMCPHC) EpiData Center Division. For the past seasons and baseline calculations, ICD-9 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza activity based on ICD-9 codes is defined using the combined codes for ILI (79.99, 382.9, 460, 461.9, 465.8, 465.9, 466.0, 486, 487.0, 487.1, 487.8, 488, 490, 780.6, or 786.2). For the current season, ICD-10 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza activity based on ICD-10 codes is defined using the combined codes for ILI (B97.89, H66.9, H66.90, H66.91, H66.92, H66.93, J00, J01.9, J01.90, J06.9, J09, J09.X, J09.X1, J09.X2, J09.X3, J09.X9, J10, J10.0, J10.00, J10.01, J10.08, J10.1, J10.2, J10.8, J10.81, J10.82, J10.83, J10.89, J11, J11.0, J11.00, J11.08, J11.1, J11.2, J11.8, J11.81, J11.82, J11.83, J11.89, J12.89, J12.9, J18, J18.1, J18.8, J18.9, J20.9, J40, R05, R50.9). An individual can only be counted as a case once per week.

NORTHCOM Regions:

The regions on the NORTHCOM map (bold, black outlines) are defined using the four US Census regions, with the exception of Hawaii and Guam which are a part of PACOM. *Northeast:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, New Jersey, New York, Pennsylvania, Puerto Rico, and the U.S. Virgin Islands. *South:* Delaware, the District of Columbia, Maryland, Virginia, West Virginia, Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Arkansas, Louisiana, Texas, and Oklahoma. *Midwest:* Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin, Iowa, Kansas, Missouri, Nebraska, North Dakota, and South Dakota. *West:* New Mexico, Colorado, Montana, Utah, Wyoming, Arizona, California, Nevada, Alaska, Idaho, Oregon, and Washington.

(All data are preliminary and subject to change as updated data is received)

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