**Northern Command**

Electronic Surveillance:
- The percent of outpatient encounters due to Influenza-like Illness (ILI) among service members remained stable in week 12 (16 March – 22 March 2014) and was at baseline. The percent of outpatient encounters due to pneumonia and influenza (P&I) decreased and remained below baseline.6.
- ILI and P&I activity continued to decline among service members in week 12.6.

Laboratory Surveillance:
- Febrile Respiratory Illness rates at all basic training centers are at or below expected values. There were no cases of flu in week 125.
- For week 11 (9 March – 15 March 2014), there were 9 flu positive lab results for service members (3 A/H1, 1 A/H3, 5 A not subtyped) and 12 for dependents (3 A/H1, 2 A/H3, 4 A not subtyped, 3 B). For week 12, there were 3 flu positive lab results for service members (2 A/H1 and 1 A not subtyped) and 9 for dependents (2 A/H1, 1 A/H3, 3 A not subtyped, 3 B) [Figure 1]1,6.
- For this season, among service members the percent positive of lab tested samples is 6.2%. Among dependents, the percent positive of lab tested samples is 4.1%.6.

RMEs: 1 among a dependent.

**Southern Command**

Laboratory Surveillance:
- Among local nationals in Peru in week 12, 43 samples were tested. 2 tested positive for A/H1 and 2 for flu B.4.

RMEs: (None to report)

**Central Command**

Electronic Surveillance:
- The percent of encounters that were ILI decreased and was below baseline. The percent of encounters that were P&I continued to decrease and was below baseline [Figure 4]6.

RMEs: (None to report)

**Africa Command**

Laboratory Surveillance:
- Among local nationals in Cameroon, 4 samples were tested and 1 was flu positive (1 A/H1, 1 A/H3).7

RMEs: (None to report)

**European Command**

Electronic Surveillance:
- The percent of outpatient encounters due to ILI decreased this week and were close to baseline. Those due to P&I were stable and were at baseline.6.
- Among service members during week 12, ILI activity decreased. P&I activity remained stable3,6.

Laboratory Surveillance:
- For week 11, there were 12 flu positive results for service members (4 A/H1, 1 A/H3, 7 A not subtyped) and 10 positive results reported for dependents (2 A/H1, 3 A/H3, 5 A not subtyped). For week 12, there were no flu positive results for service members and 6 positive results for dependents (2 A/H1, 1 A/H3, 3 A not subtyped) [Figure 2]3,6.
- For this season, among service members the percent positive of lab tested samples is 13.5%. Among dependents, the percent positive of lab tested samples is 7.8%.6

RMEs: (None to report)

**Pacific Command**

Electronic Surveillance:
- The percent of outpatient encounters due to ILI decreased for service members and was slightly below baseline. The percent due to P&I decreased and remained below baseline.6.
- ILI and P&I activity continued to decrease in week 12.6.

Laboratory Surveillance:
- For week 11, there were 8 flu positive lab results for service members (1 A/H1, 5 A not subtyped, and 2 B) and 21 flu positive results for dependents (4 A not subtyped, 17 B). For week 12, there was 1 flu positive lab result for service members (1 A not subtyped) and 4 positive flu results reported for dependents (2 A not subtyped, 2 B) [Figure 3]1,6.
- For this season, among service members the percent positive of lab tested samples is 9.4%. Among dependents, the percent positive of lab tested samples is 9.4%.6
- Among local nationals and embassy employees in Southeast Asia in week 12, 66 specimens were tested, 36 were positive for flu [10 A/H1 [all from Thailand], 9 A/H3 [1 from the Philippines], 3 from Thailand], 22 B [1 from Thailand, 1 from the Philippines])5.

RMEs: 1 among a dependant.

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**Immunization Coverage**

<table>
<thead>
<tr>
<th>Active Component</th>
<th>DoD</th>
<th>ARMY</th>
<th>MARINES</th>
<th>NAVY</th>
<th>COAST GUARD</th>
<th>AIR FORCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seasonal Influenza Vaccine</td>
<td>96%</td>
<td>97%</td>
<td>93%</td>
<td>94%</td>
<td>97%</td>
<td>99%</td>
</tr>
</tbody>
</table>

Sources: DoD ALL-MILVAX, ARMY-MEDPROS, MARINES-MRRS, NAVY-MRRS, COAST GUARD-MRRS, AIRFORCE-AFCITA

As of 19 Feb 2014

For inquiries or comments please contact mailto:usarmy.ncr.medcom-afhsc.mbx.web@mail.mil
The Following Graphs were produced by the AHFSC Epidemiology and Analysis Division. Disparities between these graphs and analyses described above can be attributed to time lag in data acquisition and/or programming differences.

**Figure 1. NORTHCOM**

**Figure 1a. Incidence Rate of P&I and ILI among Active Duty Service Members**

![Graph showing incidence rate of P&I and ILI among Active Duty Service Members]

**Figure 1b. Percent of All Outpatient Visits with an ILI Diagnosis: Service Members and Other Beneficiaries Presented Separately**

![Graph showing percent of all outpatient visits with an ILI diagnosis among Service Members and Other Beneficiaries]

![Graph showing percent of all outpatient visits with an ILI diagnosis among Other Beneficiaries]
Figure 1c. Percent of All Outpatient Visits with a P&I Diagnosis: Service Members and Other Beneficiaries Presented Separately

NORTHCOM Service Members, 2013-2014 and previous 2 Influenza Seasons

NORTHCOM Other Beneficiaries, 2013-2014 and previous 2 Influenza Seasons

Data Source: Defense Medical Surveillance System
Report Date: Mar 26, 2014
Figure 1d. Influenza Positive Tests Reported in Health Level 7 data: Service Members and Other Beneficiaries Presented Separately

Influenza Positive Tests Reported to AFHSC, NORTHCOM Service Members,
2013-2014 Influenza Season

Influenza Positive Tests Reported to AFHSC, NORTHCOM Beneficiaries,
2013-2014 Influenza Season
Figure 2. EUCOM

Figure 2a. Incidence Rate of P&I and ILI among Active Duty Service Members

![EUCOM, Influenza Season 2013-2014](image)

Data Source: Defense Medical Surveillance System
Report Date: Mar 26, 2014

Figure 2b. Percent of All Outpatient Visits with an ILI Diagnosis: Service Members and Other Beneficiaries Presented Separately

![EUCOM Service Members, 2013-2014 and previous 2 Influenza Seasons](image)

Data Source: Defense Medical Surveillance System
Report Date: Mar 26, 2014

![EUCOM Other Beneficiaries, 2013-2014 and previous 2 Influenza Seasons](image)

Data Source: Defense Medical Surveillance System
Report Date: Mar 26, 2014
Figure 2c. Percent of All Outpatient Visits with a P&I Diagnosis: Service Members and Other Beneficiaries Presented Separately
Figure 2d. Influenza Positive Tests Reported in Health Level 7 data: Service Members and Other Beneficiaries Presented Separately
Figure 3. PACOM

Figure 3a. Incidence Rate of P&I and ILI among Active Duty Service Members

Figure 3b. Percent of All Outpatient Visits with an ILI Diagnosis: Service Members and Other Beneficiaries Presented Separately
Figure 3c. Percent of All Outpatient Visits with a P&I Diagnosis: Service Members and Other Beneficiaries Presented Separately

PACOM Service Members, 2013-2014 and previous 2 Influenza Seasons

PACOM Other Beneficiaries, 2013-2014 and previous 2 Influenza Seasons

Data Source: Defense Medical Surveillance System
Report Date: Mar 26, 2014
Figure 3d. Influenza Positive Tests Reported in Health Level 7 data: Service Members and Other Beneficiaries Presented Separately

Influenza Positive Tests Reported to AFHSC, PACOM Service Members, 2013-2014 Influenza Season

Influenza Positive Tests Reported to AFHSC, PACOM Beneficiaries, 2013-2014 Influenza Season
Figure 4. CENTCOM
Figure 4a: Percent of All TMDS Encounters with an ILI Diagnosis

CENTCOM Service Members, 2013-2014 and previous 2 Influenza Seasons

![ILI (%) vs Week graph]

Data Source: Theater Medical Data Store (TMDS)
Report Date: Mar 26, 2014

Figure 4b: Percent of All TMDS Encounters with a P&I Diagnosis

CENTCOM Service Members, 2013-2014 and previous 2 Influenza Seasons

![P&I (%) vs Week graph]

Data Source: Theater Medical Data Store (TMDS)
Report Date: Mar 26, 2014
Description:

Figures are stratified by Combatant Commands (COCOM). For NORTHCOM, EUCOM, and PACOM, several figures are presented. The first 5 figures present the weekly data on ILI and P&I events. These figures give an overview of the influenza season by incidence and all outpatient visits. This data can give a broad view of the pattern and severity of the season and allow the reader to compare seasonal patterns with previous years and between the U.S. and international regions. The last 2 figures present the Health Level 7 (HL-7) laboratory data for the DoD. These figures provides the number of influenza laboratory tests (influenza PCR or viral culture tests only) performed each week and the proportion and serotype of influenza positive tests.

Incidence of Influenza:

Each week the incidence rates of ILI and P&I are calculated for active component service members. The numerator comprises the sum of new events occurring during the week of interest. The denominator comprises the total number of persons at risk for that week. Rates are stratified by seasonal influenza vaccination status at the start of the week. Service members vaccinated against influenza at least 14 days prior to the start of the week are included in the vaccinated group. (Figure 1)

Percentage of Outpatient Visits Associated with Influenza:

The percentage of all outpatient visits that have an ILI or P&I diagnosis is calculated each week for (1) all service members, regardless of component and (2) all other DoD beneficiaries. Current proportions are graphed against the baseline** and data for the two prior influenza seasons for comparison.

Laboratory Tests for Influenza (HL-7):

Each week the total number of influenza laboratory tests (PCR or viral culture only) performed and the proportion and serotype of influenza positive tests is calculated for (1) all service members, regardless of component and (2) all other DoD beneficiaries.

CENTCOM Medical Encounters (Theater Medical Data Store -TMDS):

The percentage of all medical encounters reported in TMDS that have an ILI or P&I diagnosis is calculated each week for service members (regardless of component) deployed to CENTCOM. Current proportions are graphed against the baseline** and data for the two prior influenza seasons for comparison.

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

Background:

AFHSC maintains the Defense Medical Surveillance System (DMSS) which is a database containing up-to-date and historical data on medical encounters, vaccinations, and personnel and demographic data about service members from all military services. Using ICD-9 codes from hospitalization and outpatient encounters, influenza vaccination data, and laboratory data contained within the DMSS, AFHSC produces weekly summaries of respiratory illness activity among military health system beneficiaries by COCOM. Two primary outcomes are used for this surveillance: Influenza-like Illness (ILI) and Pneumonia and Influenza (P&I). ILI is defined as a health care encounter that resulted in a diagnostic (ICD-9) code of 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. P&I is defined as an ICD-9 code of 480-488.

**The COCOM specific baseline is the percentage of outpatient visits (or medical encounters for CENTCOM) for ILI or P&I during non-influenza weeks (weeks 22-39) over the past 3 years plus two standard deviations.