In NORTHCOM during week 02:

- Influenza activity was low to moderate for most states.
- The percentage of outpatient visits due to ILI continued to decreased from a peak at week 52, but remained above baseline.
- Flu A and B viruses continued to circulate with similar counts of A/H1 and A/H3 viruses identified.
- The percentage of positive lab tests for week 02 was 5.5% for service members and 5.4% for beneficiaries.
- Two influenza hospitalizations (RME) among vaccinated service members were reported for week 01.

NHRC laboratory-confirmed influenza cases, US Military Basic Trainees: As of Week 01

2015 – 2016 NORTHCOM Season Totals

<table>
<thead>
<tr>
<th></th>
<th>A/H1N1</th>
<th>A/H3N2</th>
<th>A/Untyped</th>
<th>Flu B</th>
<th>AB</th>
<th>Overall % Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Members</td>
<td>6</td>
<td>2</td>
<td>27</td>
<td>18</td>
<td>3</td>
<td>1.32</td>
</tr>
<tr>
<td>Dependents</td>
<td>33</td>
<td>31</td>
<td>139</td>
<td>132</td>
<td>43</td>
<td>2.32</td>
</tr>
</tbody>
</table>

NORTHCOM Service Members, 2015-2016 and Previous 2 Influenza Seasons

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In EUCOM during week 02\textsuperscript{4,5}

- Influenza activity was minimal to low this week.
- The percentage of outpatient visits due to ILI continued to decreased from a peak at week 52.
- Three influenza positive lab tests among beneficiaries and one among a service member occurred during week 02 (2 flu A unsubtyped and 2 flu B)
- The percentage of positive lab tests for week 02 was 4.8% for service members and 16.7% for beneficiaries.

| 2015-2016 EUCOM Season Totals\textsuperscript{4,5} |
|---|---|---|---|---|---|---|
|   | A/H1N1 | A/H3N2 | A/Untyped | Influenza B | AB | Overall % Positive |
| Service Members | 0 | 0 | 1 | 0 | 0 | 0.44 |
| Dependents | 3 | 3 | 2 | 4 | 0 | 2.22 |

\textsuperscript{1}AFHSB, \textsuperscript{2}USAFSAM, \textsuperscript{3}NHRC, \textsuperscript{4}LRMC, \textsuperscript{5}PHCR-E, \textsuperscript{6}AFRIMS, \textsuperscript{7}NMRC-A, \textsuperscript{8}USAMRU-K, \textsuperscript{9}NAMRU-3, \textsuperscript{10}NAMRU-6

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In PACOM during week 02\textsuperscript{1,6,7}:

- Low influenza activity was seen for Japan and the Republic of Korea.
- Hawaii had moderate activity and a large number of flu A un-subtyped positive lab tests over the past two weeks.
- The percentage of outpatient visits due to ILI decreased below baseline this week.
- The percentage of positive lab tests for week 02 was 5.9% for service members and 21.1% for beneficiaries.

### PACOM: Guam and Hawaii Influenza Activity and HL7 Test Positive (MAP: SM+BN, 2 wks)

<table>
<thead>
<tr>
<th>Area Name</th>
<th>Influenza Activity</th>
<th>HL7 Type</th>
<th>A(H1)</th>
<th>A(H3)</th>
<th>A Untyped</th>
<th>B</th>
<th>AB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guam</td>
<td>Minimal</td>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Hawaii*</td>
<td>Moderate</td>
<td></td>
<td>0</td>
<td>0</td>
<td>7</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

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

### PACOM Service Members, Influenza Positive Specimens Reported to AFHSB

- 2015-2016 PACOM Season Totals\textsuperscript{1,6,7}

<table>
<thead>
<tr>
<th></th>
<th>A/H1N1</th>
<th>A/H3N2</th>
<th>A/Untyped</th>
<th>Flu B</th>
<th>Flu AB</th>
<th>Overall % Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Members</td>
<td>1</td>
<td>1</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>2.30</td>
</tr>
<tr>
<td>Dependents</td>
<td>0</td>
<td>0</td>
<td>44</td>
<td>15</td>
<td>1</td>
<td>7.56</td>
</tr>
</tbody>
</table>

\textsuperscript{1}AFHSB, \textsuperscript{2}USAFSAM, \textsuperscript{3}NHRC, \textsuperscript{4}LRMC, \textsuperscript{5}PHCR-E, \textsuperscript{6}AFRIMS, \textsuperscript{7}NMRC-A, \textsuperscript{8}USAMRU-K, \textsuperscript{9}NAMRU-3, \textsuperscript{10}NAMRU-6

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Pacific Command -- Week 02

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

South Korea and Japan
In CENTCOM and AFRICOM during week 02\textsuperscript{1,8,9}

\begin{itemize}
  \item Influenza activity remained minimal in CENTCOM and AFRICOM, with the exception of Afghanistan which had low activity.
  \item The percentage of outpatient visits due to ILI increased above baseline during week 01 and remained steady during week 02.
\end{itemize}

**Southern Command -- Week 02**

In SOUTHCOM during week 02\textsuperscript{10}

\begin{itemize}
  \item Influenza activity in Honduras was minimal based on DMSS data.
\end{itemize}

\textsuperscript{1}AFHSB, \textsuperscript{2}USAFSAM, \textsuperscript{3}NHRC, \textsuperscript{4}LRMC, \textsuperscript{5}PHCR-E, \textsuperscript{6}AFRIMS, \textsuperscript{7}NMRC-A, \textsuperscript{8}USAMRU-K, \textsuperscript{9}NAMRU-3, \textsuperscript{10}NAMRU-6

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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, J11.12, J11.18, 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:

1AFHSB, 2USAFSAM, 3NHRC, 4LRMC, 5PHCR-E, 6AFRIMS, 7NMRC-A, 8USAMRU-K, 9NAMRU-3, 10NAMRU-6

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