In NORTHCOM during week 50:

- ILI and P&I activity in service members continued to increase and was above baseline and previous seasons.
- The cumulative percentages of positive lab tests continues to steadily increase and were 10.6% for service members and 13.0% for dependents.
- Influenza A/H3N2 continues to be the predominate strain circulating throughout NORTHCOM.
- The DoD goal for 2014-2015 season was to have all components 90% immunized by 15 December. As of 16 December the DoD reached 91%.
- There were 7 RMEs (3 service members and 4 dependents).

NHRC laboratory-confirmed influenza cases, US Military Basic Trainees:

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

- NORTHCOM Service Members, Influenza Positive Tests Reported to AFHSC

- NORTHCOM Beneficiaries, Influenza Positive Tests Reported to AFHSC

- Immunization Coverage for all Commands (As of 17 December 14)

- 2014 – 2015 NORTHCOM Season Totals

- 2014 – 2015 Recruit Season Totals

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In EUCOM during week 50\textsuperscript{1,4,5}

- Among service members, influenza activity was low.
- Influenza A/H3N2 and flu B are mainly circulating this season throughout EUCOM.
- ILI and P&I activity increased slightly and remained above baseline.
- The percents of positive lab tests for service members and dependents remains low, 2.9% and 3.2%, respectively.

\begin{table}
\centering
\begin{tabular}{|c|c|c|c|c|c|}
\hline
& A/H1N1 & A/H3N2 & A/Untyped & Influenza B & AB & % Positive \\
\hline
Service Members & 0 & 5 & 8 & 5 & 0 & 2.9 \\
Dependents & 2 & 6 & 16 & 4 & 1 & 3.2 \\
\hline
\end{tabular}
\end{table}
In PACOM during week 50\textsuperscript{1,6,7}:

- Influenza activity increased slightly among service members.
- ILI and P&I increased and rose above baseline.
- Among service members, the majority of cases have been influenza A/unsubtyped and flu B.
- The percent of positive lab tests for service members and dependents were 7.2% and 9.6%, respectively.
- There were 6 RMEs in PACOM (1 service member and 5 dependents).

### PACOM: GUAM and HI 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>A(H1)</td>
</tr>
<tr>
<td>GUAM</td>
<td>1:Minimal</td>
<td>0</td>
</tr>
<tr>
<td>HI</td>
<td>2:Low</td>
<td>0</td>
</tr>
</tbody>
</table>

### 2014-2015 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>% Positive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Members</td>
<td>0</td>
<td>3</td>
<td>16</td>
<td>4</td>
<td>7.2</td>
</tr>
<tr>
<td>Dependents</td>
<td>1</td>
<td>8</td>
<td>47</td>
<td>28</td>
<td>9.6</td>
</tr>
</tbody>
</table>

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

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Central and Africa Commands -- Week 50

In CENTCOM and AFRICOM during week 50:
- ILI and P&I activity decreased this week but is still above baseline and previous seasons.

Southern Command -- Week 50
(Local Nationals Only)

In SOUTHCOM during week 50:
- Among local nationals in SOUTHCOM, there was a marked increase in cases of A/H3N2 in weeks 46-50.
- The WHO reports that most ILI and SARI activity caused by RSV has started to trend downwards.

<table>
<thead>
<tr>
<th>2014-2015 SOUTHCOM Season Totals Among Local Nationals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Colombia</td>
</tr>
<tr>
<td>Peru</td>
</tr>
</tbody>
</table>

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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 influenza (defined as having an Influenza-like Illness (ILI) or Pneumonia and Influenza (P&I) diagnosis) 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 Influenza:**

The percentage of all outpatient visits for influenza (defined as having an ILI or P&I diagnosis) is calculated each week for (1) all service members, regardless of component and (2) all other DoD beneficiaries. This data is 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 influenza for the past two weeks to the mean reported percent of visits due to influenza 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 Tests:**

Only lab results from PCR or viral culture assays are reported. 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 Center’s (AFHSC) Defense Medical Surveillance System (DMSS) are used to generate this report. In addition, health-level 7 (HL-7) laboratory data is provided by the Navy and Marine Corps Public Health Center (NMCPHC) EpiData Center Division. ICD-9 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza 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) and P&I (480-488). 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)

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

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