Overall Summary

NOTE: Reported counts and rates may be under-represented due to a data lag impacting week 45 data.
Overall influenza activity was low, with laboratory-identified cases and dispensed AVs slightly below baseline levels.

Key Findings

Influenza Activity and Surveillance

Laboratory
- Laboratory-positive influenza cases were slightly below baseline.
- 9 laboratory cases identified. Details

Antivirals (AVs)
- Dispensed AVs were at baseline levels.
- 32 AVs dispensed. Details

Influenza-Like Illness (ILI)
- ILI outpatient encounters were comparable to baseline at 3.1% of outpatient medical encounters. Details

Severity Indicators

Inpatient
- No inpatient laboratory-positive cases identified.
- 4 inpatient AVs dispensed.
- No influenza cases reported to DRSi. Details

Coinfections
- No bacterial coinfections among laboratory-positive cases were identified.
- No rapid strep test was identified among influenza cases. Details

Select Populations

Active Duty
- 2 laboratory-positive case identified.
- 4 AVs dispensed. Details

Recruits
- No laboratory-positive case identified.
- No AV dispensed. Details
- Febrile respiratory illness at or below expected values at all training centers. NHRC Report

Children
- Laboratory cases among children were comparable to baseline levels. Details

Active Duty Vaccination Rates

Navy .................... 71.3%
Marine Corps ..........77.6%
US Fleet Forces ....... 72.0%

View Table
Data source: MRRS, current as of 14 Nov 2016.
Overall Burden*

- The weekly burden of influenza in the DON was 41 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (78.0%). Two cases were identified in all three sources.
- 316 DON cases identified since Week 40.

*Note: The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.

Laboratory Cases

- Laboratory-positive cases were slightly below baseline with 9 cases.
- Influenza types: A (6), B (3), and A and B (0).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (4), and NMC San Diego (2).
  - Season: NH Camp Lejeune (18), NH Guam-Agana (11), and NMC San Diego (6).

Specimen Positivity

- 3.0% of all influenza specimens tested; slightly above last season (2.7%).
- Facilities testing 10 or more specimens: 7 (25.0%).

<table>
<thead>
<tr>
<th>Test Types among Positive Influenza Specimens, n (%)</th>
<th>Rapid</th>
<th>Culture</th>
<th>PCR</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 43</td>
<td>9(81.8)</td>
<td>0(0.0)</td>
<td>2(18.2)</td>
<td>11</td>
</tr>
<tr>
<td>Week 44</td>
<td>12(66.7)</td>
<td>2(11.1)</td>
<td>4(22.2)</td>
<td>18</td>
</tr>
<tr>
<td>Week 45</td>
<td>7(77.8)</td>
<td>0(0.0)</td>
<td>2(22.2)</td>
<td>9</td>
</tr>
<tr>
<td>Season</td>
<td>58(79.5)</td>
<td>6(8.2)</td>
<td>9(12.3)</td>
<td>73</td>
</tr>
</tbody>
</table>

Antiviral Prescriptions

- AVs dispensed were at baseline levels.
- 32 AVs (29 oseltamivir, 3 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (5), IA-AMC Walter Reed (3), NH Pensacola (3).
Syndromic Surveillance

Influenza-Like Illness (ILI) *

- The percentage of medical encounters that included an ILI diagnosis:
  - 3.1% of outpatient encounters (slightly below baseline).
  - 10.5% of ER admissions (below baseline).
- 21 DON facilities (75.0%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Three facilities had an increase of 25% or higher.
  - NH Twentynine Palms (66.0%) had the greatest increase in the percent of ILI visits (3.7% this week; 2.2% last week).

*For Week 44, lagged due to data availability

Severity Indicators

Inpatient Laboratory

- No inpatient laboratory cases were identified.

Inpatient Pharmacy

- The percentage of inpatient AVs (12.5% of all influenza AVs) was above baseline (9.7%).
- One AV was dispensed at NMC Portsmouth, NMC San Diego, AMC Tripler Shafter and WRNMMC.
- AVs were dispensed to active duty (1), spouses (2), and a non-active duty sponsor (1).

Influenza-Associated Hospitalization Reports

- There were no influenza cases reported to DRSi for influenza-associated hospitalizations.

Bacterial Coinfections

- No coinfections were identified during the week.
- No rapid strep test was identified among influenza cases.

<table>
<thead>
<tr>
<th>Bacterial Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coinfections by Specimen Source, n (%)</strong></td>
</tr>
<tr>
<td>Upper Respiratory</td>
</tr>
<tr>
<td>Current Season (n=1)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=1.5)</td>
</tr>
</tbody>
</table>

* Cumulative baseline calculated as a weighted average over three years and may not represent whole numbers.
Note: Table does not include Group A Streptococcus identified from rapid diagnostic tests.
Active Duty
- Two laboratory-positive (one Type A and one Type B) influenza cases were identified among active duty service members, one each at NMC San Diego and NH Yokosuka.
- Four active duty service members (3 Navy, 1 Marine) were dispensed AVs (3 oseltamivir and 1 amantadine).

Recruits
- No laboratory-positive influenza cases were identified among recruits.
- No AV was dispensed to recruits.

<table>
<thead>
<tr>
<th>Case Type</th>
<th>Active Duty</th>
<th>Recruits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Navy</td>
<td>Marine Corps</td>
</tr>
<tr>
<td>Laboratory</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>Antiviral</td>
<td>30</td>
<td>10</td>
</tr>
</tbody>
</table>

Children
- Laboratory cases were at baseline levels; 4 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases identified at 4 different facilities, NH Camp Lejeune (3), NH Bremerton (1).
- AVs dispensed to children were above baseline levels; 9 AVs were dispensed.
  - No AVs were dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Camp Lejeune (3) and NH Bremerton (2).

In the News
- The CDC reports that influenza activity in the US was low; ILI visits are below baseline levels. [Details]
- A Science study explores childhood influenza exposure and its effect on lifelong immunity. The model developed enables the authors to predict the age distribution and severity of future pandemics. [Details]