Overall Summary

Overall influenza activity was low. However, laboratory-positive influenza cases and dispensed AVs were both slightly above baseline levels.

Key Findings

Influenza Activity and Surveillance

Laboratory
- Laboratory-positive influenza cases were above baseline.
- 10 laboratory cases identified. [Details]

Antivirals (AVs)
- Dispensed AVs were slightly above baseline.
- 28 AVs dispensed. [Details]

Influenza-Like Illness (ILI)
- ILI outpatient encounters were below baseline at 2.7% 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.
- One positive rapid strep test was identified among influenza cases. [Details]

Select Populations

Active Duty
- One laboratory-positive case identified.
- 9 AVs dispensed. [Details]

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

Children
- Laboratory cases among children were above baseline. [Details]

Active Duty Vaccination Rates

Navy ..................... 54.6%
Marine Corps ...........62.1%
US Fleet Forces ....... 57.8%

View Table
Data source: MRRS, current as of 31 Oct 2016.
Overall Burden*
- The weekly burden of influenza in the DON was 37 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (56.8%). Two cases were identified in all three sources.
- 178 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 above baseline with 10 cases; the case count was slightly above the count of the previous week.
- Influenza types: A (6), B (4), and A and B (0).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (3), NMC San Diego (2).
  - Season: NH Guam-Agana (10), NH Camp Lejeune (10), and NH Yokosuka (4).

Specimen Positivity
- 3.1% of all influenza specimens tested; above last season (0.6%).
- Facilities testing more than 10 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 41</td>
<td>7(87.5)</td>
<td>1(12.5)</td>
<td>0(0.0)</td>
<td>8</td>
</tr>
<tr>
<td>Week 42</td>
<td>9(100.0)</td>
<td>0(0.0)</td>
<td>0(0.0)</td>
<td>9</td>
</tr>
<tr>
<td>Week 43</td>
<td>8(80.0)</td>
<td>0(0.0)</td>
<td>2(2.0)</td>
<td>10</td>
</tr>
<tr>
<td>Season</td>
<td>38(86.4)</td>
<td>3(6.8)</td>
<td>13(6.8)</td>
<td>44</td>
</tr>
</tbody>
</table>

Antiviral Prescriptions
- AVs dispensed were slightly above baseline; AVs decreased slightly from the prior week.
- 28 AVs (27 oseltamivir, 1 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (6), Ft Belvoir Community Hosp-FBC (3), NH Camp Pendleton (3).

<table>
<thead>
<tr>
<th>Antiviral Medications Dispensed to DON Beneficiaries, n (%)</th>
<th>Amantadine</th>
<th>Oseltamivir</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 41</td>
<td>1(5.0)</td>
<td>19(95.0)</td>
<td>20</td>
</tr>
<tr>
<td>Week 42</td>
<td>2(6.4)</td>
<td>29(93.6)</td>
<td>31</td>
</tr>
<tr>
<td>Week 43</td>
<td>1(3.6)</td>
<td>27(96.4)</td>
<td>28</td>
</tr>
<tr>
<td>Season</td>
<td>8(6.5)</td>
<td>115(93.5)</td>
<td>123</td>
</tr>
</tbody>
</table>
**Syndromic Surveillance**

**Influenza-Like Illness (ILI) ***
- The percentage of medical encounters that included an ILI diagnosis:
  - 2.7% of outpatient encounters (below baseline).
  - 10.0% of ER admissions (below baseline).
- 13 DON facilities (46.4%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Four facilities had an increase above 25%
  - NH Guantanamo Bay (233.8%) had the greatest increase in the percent of ILI visits (3.0% this week; 0.9% last week).

*For Week 42, lagged due to data availability

**Severity Indicators**

**Inpatient Laboratory**
- No inpatient laboratory cases were identified.

**Inpatient Pharmacy**
- The percentage of inpatient AVs (14.3% of all influenza AVs) was above baseline (1.9%).
- AVs were dispensed at Ft Belvoir Community Hosp-FBC, NH Camp Pendleton, NMC Portsmouth, NMC San Diego (all with 1 inpatient AV dispensed).
- AVs were dispensed to active duty (1), spouses (2), and a child (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.
- One positive 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>Coinfections by Specimen Source, n (%)</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.

< Back to Key Findings

Prepared by the EpiData Center (email; web)  
Navy and Marine Corps Public Health Center  
NMCPHC-EDC-TR-609-2016  
Week 43: Page 3 of 4
Active Duty

- One laboratory-positive Type A influenza case was identified among active duty service members (Navy) at NH Bremerton.
- 9 active duty service members (6 Navy, 3 Marine) were dispensed AVs (all oseltamivir).

Recruits

- No laboratory-positive influenza cases were identified among recruits.
- One AV was dispensed to a recruit.

Number of DON Active Duty and Recruit Cases since Week 40, 2016-2017 Season

<table>
<thead>
<tr>
<th>Case Type</th>
<th>Active Duty</th>
<th>Recruits</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Navy</td>
<td>Marine Corps</td>
<td>Navy</td>
</tr>
<tr>
<td>Laboratory</td>
<td>5</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Antiviral</td>
<td>22</td>
<td>7</td>
<td>0</td>
</tr>
</tbody>
</table>

Children

- Laboratory cases were above baseline; 5 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases identified at 3 different facilities, NH Camp Lejeune, NH Guam-Agana, and NH Yokosuka.
- AVs dispensed to children were above baseline estimates; 9 AVs were dispensed.
  - One AV was dispensed in the inpatient setting.
  - Location with most AVs dispensed: NH Camp Lejeune (5).

US influenza activity is low; the proportion of outpatient visits for ILI is below national baseline. Details
A study published this week in the Proceedings of the National Academy of Sciences discussed absolute humidity and temperature as environmental factors linked to influenza outbreaks. Details

In the News

< Back to Key Findings

Prepared by the EpiData Center (email; web)
Navy and Marine Corps Public Health Center