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.
- 13 laboratory cases identified. [Details]

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

Influenza-Like Illness (ILI)
- ILI outpatient encounters were slightly below baseline at 2.9% of outpatient medical encounters. [Details]

Severity Indicators

Inpatient
- No inpatient laboratory-positive cases identified.
- One inpatient AV 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
- Two laboratory-positive case identified.
- 6 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 slightly above baseline. [Details]

Influenza Situation Report: 2016-2017 Season
Department of the Navy
Week 44 (30 October to 05 November 2016)

Active Duty Vaccination Rates

Navy .................... 63.9%
Marine Corps .......... 72.3%
US Fleet Forces ...... 64.4%

View Table
Data source: MRRS, current as of 07 Nov 2016.
**Overall Burden***
- The weekly burden of influenza in the DON was 49 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (79.6%). One case was identified in all three sources.
- 249 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 13 cases; the case count was slightly above the count of the previous week.
- Influenza types: A (10), B (3), and A and B (0).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (3), and NH Bremerton (2).
  - Season: NH Camp Lejeune (13), NH Guam-Agana (11), NH Bremerton (4), and NH Yokosuka (4).

**Specimen Positivity**
- 5.0% of all influenza specimens tested; above last season (1.9%).
- 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 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>9(81.8)</td>
<td>0(0.0)</td>
<td>2(18.2)</td>
<td>11</td>
</tr>
<tr>
<td>Week 44</td>
<td>11(68.8)</td>
<td>2(12.5)</td>
<td>3(18.8)</td>
<td>16</td>
</tr>
<tr>
<td>Season</td>
<td>50(80.6)</td>
<td>6(9.7)</td>
<td>6(9.7)</td>
<td>62</td>
</tr>
</tbody>
</table>

**Antiviral Prescriptions**
- AVs dispensed were slightly above baseline; AVs increased slightly from the prior week.
- 39 AVs (39 oseltamivir, 0 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (6), NHC Corpus Christi (4), NMC Portsmouth (4).

<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 42</td>
<td>2(6.4)</td>
<td>29(93.6)</td>
<td>31</td>
</tr>
<tr>
<td>Week 43</td>
<td>1(3.0)</td>
<td>32(97.0)</td>
<td>33</td>
</tr>
<tr>
<td>Week 44</td>
<td>0(0.0)</td>
<td>39(100.0)</td>
<td>39</td>
</tr>
<tr>
<td>Season</td>
<td>8(4.8)</td>
<td>159(95.2)</td>
<td>167</td>
</tr>
</tbody>
</table>
Syndromic Surveillance

Influenza-Like Illness (ILI) *
- The percentage of medical encounters that included an ILI diagnosis:
  - 2.9% of outpatient encounters (below baseline).
  - 9.8% of ER admissions (below baseline).
- 22 DON facilities (78.6%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Six facilities had an increase of 25% or higher.
  - NH Sigonella (70.4%) had the greatest increase in the percent of ILI visits (2.7% this week; 1.6% last week).

*For Week 43, lagged due to data availability

Severity Indicators

Inpatient Laboratory
- No inpatient laboratory cases were identified.

Inpatient Pharmacy
- The percentage of inpatient AVs (2.6% of all influenza AVs) was below baseline (11.6%).
- One AV was dispensed at NMC Portsmouth
- AVs were dispensed to active duty (1), spouses (0), and a child (0).

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 NH Bremerton and IA-USA Hospital Bad Cannstatt.
- 6 active duty service members (4 Navy, 2 Marine) were dispensed AVs (all oseltamivir).

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

Children
- Laboratory cases were slightly above baseline; 6 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 Camp Pendleton, NH Bremerton, and AMC Brooke-Sammc-Sam Houston (all with 1).
- AVs dispensed to children were above baseline estimates; 14 AVs were dispensed.
  - No AV was dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Camp Lejeune (6) and NMC Portsmouth (2).

In the News
- Influenza activity in temperate southern hemisphere countries continued to decrease or remained low, while activity in the temperate zone of the northern hemisphere remained at inter-seasonal levels. Details
- A study published in the journal Pediatrics shows that a single inhaled dose of 20-mg of laninamivir octanoate reduced the relative risk of contracting influenza by 45.8% in children under the age of 10 years. Details