Overall Summary
Overall influenza activity is low; however, the counts of laboratory-positive cases and antiviral prescriptions dispensed are above seasonal baselines for the current week.

Key Findings

Influenza Activity and Surveillance

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

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

Influenza-Like Illness (ILI)
- ILI outpatient encounters were below baseline at 3.0% 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. [Details]

Select Populations

Active Duty
- 4 laboratory-positive cases identified.
- 7 AVs dispensed. [Details]

Recruits
- No laboratory-positive case identified.
- No AVs 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]
Overall Burden*
- The weekly burden of influenza in the DON was 45 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (91.1%). One case was identified in all three sources.
- 142 DON cases identified since Week 38.

*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 above baseline with 17 cases; the case count was higher than the count of the previous week.
- Influenza types: A (14), B (3), and A and B (0).
- Facilities with the greatest number of cases:
  - Current week: NH Guam-Agana (4), NH Camp Lejeune (3), AMC Tripler-Shafter (2), and NH Yokosuka (2).
  - Season: NH Camp Lejeune (7), NH Guam-Agana (5), and AMC Tripler-Shafter (3).

Specimen Positivity
- 6.5% of all influenza specimens tested; higher than the same time last season (2.2%).
- 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 38</td>
<td>5 (71.4)</td>
<td>1 (14.3)</td>
<td>1 (14.3)</td>
<td>7</td>
</tr>
<tr>
<td>Week 39</td>
<td>11 (84.6)</td>
<td>1 (7.7)</td>
<td>1 (7.7)</td>
<td>13</td>
</tr>
<tr>
<td>Week 40</td>
<td>14 (82.4)</td>
<td>2 (11.8)</td>
<td>1 (5.9)</td>
<td>17</td>
</tr>
<tr>
<td>Season</td>
<td>30 (81.1)</td>
<td>4 (10.8)</td>
<td>3 (8.1)</td>
<td>37</td>
</tr>
</tbody>
</table>

Antiviral Prescriptions
- AVs dispensed were above baseline; AVs decreased slightly from the prior week.
- 42 AVs (38 oseltamivir, 4 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (7), NMC San Diego (5) and NH Guam-Agana (5).
- The majority (93.2%) of prescriptions for the season have been for oseltamivir.

<table>
<thead>
<tr>
<th>Antiviral Medications Dispensed to DON Beneficiaries, n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amantadine</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>Week 40</td>
</tr>
<tr>
<td>Season</td>
</tr>
</tbody>
</table>
**Syndromic Surveillance**

**Influenza-Like Illness (ILI) * **
- The percentage of medical encounters that included an ILI diagnosis:
  - 3.0% of outpatient encounters (below baseline).
  - 10.0% of ER admissions (below baseline).
- 12 DON facilities (42.9%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - One facility had an increase above 25%.
  - NHC Quantico (65.9%) had the greatest increase in the percent of ILI visits.

*For Week 39, lagged due to data availability

**Severity Indicators**

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

**Inpatient Pharmacy**
- The percentage of inpatient AVs (11.9% of all influenza AVs) was above baseline (10.8%).
- AVs were most frequently dispensed at NMC San Diego (3), AMC Tripler-Shafter (1) and AMC Madigan-Lewis (1)
- AVs were dispensed to spouses (2), other sponsors (2), and an active duty service members (1).

**Influenza-Associated Hospitalization Reports**
- No influenza cases were reported to DRSi for influenza-associated hospitalizations.

**Bacterial Coinfections**
- No coinfections were identified during the week.
- No positive rapid strep tests identified among influenza cases.

| Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2015-2016 Season |
|-----------------------------------------------|-----------------------------------------------|------------------|------------------|
|                                              | Coinfections by Specimen Source, n (%)         | Lab Cases with Bacterial Coinfection (%)     |
|                                              | Upper Respiratory | Lower Respiratory | Non-Respiratory |                  |
| Current Season (n=4)                          | 4 (0.0)          | 0 (0.0)           | 4 (100.0)       | 2.8              |
| Cumulative Baseline* (n=0)                    | 0 (0.0)          | 0 (0.0)           | 0 (0.0)         | 0 (0.0)          |

* Cumulative baseline calculated as a weighted average over three years and may not represent whole numbers.
Note: Table does not included Group A Streptococcus identified from rapid diagnostic tests.

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Prepared by the EpiData Center (email; web)
Navy and Marine Corps Public Health Center
Active Duty
- 4 laboratory-positive influenza cases were identified among active duty service members (3 Navy, 1 Marine Corps); 3 cases Type A and 1 case Type B.
- Laboratory cases were identified at AMC Tripler-Shafter (1), NH Beaufort (1), NH Camp Lejeune (1), and NH Guam-Agana (1).
- 7 active duty service members (6 Navy, 1 Marine) were dispensed AVs (6 oseltamivir and 1 amantadine).

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

<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>6</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Antiviral</td>
<td>16</td>
<td>8</td>
<td>0</td>
</tr>
</tbody>
</table>

Children
- Laboratory cases are slightly above baseline; 5 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases identified at 4 different facilities, most frequently: NH Yokosuka (2).
- AVs dispensed to children are above baseline estimates; 11 AVs were dispensed.
  - No AVs were dispensed in inpatient settings.
  - Location with most AVs dispensed: NH Camp Lejeune (4).

In the News
- The CDC expressed concern that vaccination rates may be lower, as flu mist is not available. Details
- WHO recommends updating the H1N1 component of the influenza vaccine that has been in use since 2009 due to decreased effectiveness in some age groups. Details
- The CDC reports some localized H3N2 influenza outbreaks in late August; influenza A was the predominant strain of influenza cases over the summer months. Details