Influenza Activity and Surveillance

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

Antivirals (AVs)
- Dispensed AVs were below baseline.
- 43 AVs dispensed. Details

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

Severity Indicators

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

Coinfections
- Two bacterial coinfections among laboratory-positive cases were identified from one lower-respiratory specimen and one non-respiratory specimen.
- No positive rapid strep tests were identified among influenza cases. Details

Select Populations

Active Duty
- Six laboratory-positive cases identified.
- Nine AVs dispensed. Details

Recruits
- No laboratory-positive cases identified.
- One AV dispensed. Details
- Elevated febrile respiratory illness rate at NRTC Great Lakes. NHRC Report

Children
- Laboratory cases among children were below baseline levels with 12 laboratory-positive cases identified. Details

Overall Summary
Influenza activity in the DON continues to decline. Laboratory positive cases, dispensed antivirals, and ER and outpatient encounters for ILI are all below baseline levels. Type B was the most prevalent influenza strain identified, similar to national trends.

Active Duty Vaccination Rates
Navy ..................... 96.5%
Marine Corps .......... 97.1%
US Fleet Forces ........ 98.6%

View Table
Data source: MRRS, current as of 01 May 2017.
Overall Burden*
- The weekly burden of influenza in the DON was 67 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (64.2%).
- Four cases were identified in all three sources.
- 9,546 DON cases have been 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 below baseline levels with 27 cases.
- Influenza case types: A (6), B (20), and type unknown (1).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Jacksonville and NH Camp Lejeune (both with 4 cases)
  - Season: NH Camp Lejeune (592), NH Jacksonville (322), and NMC San Diego (298).

Specimen Positivity
- 7.0% of all influenza specimens tested during Week 17 were positive, below last season (16.0%).
- When grouped by parent facility, 9 (32.1%) locations tested more than ten specimens.

<table>
<thead>
<tr>
<th>Week</th>
<th>Rapid</th>
<th>Culture</th>
<th>PCR</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>49(64.5)</td>
<td>4(5.3)</td>
<td>23(30.3)</td>
<td>76</td>
</tr>
<tr>
<td>16</td>
<td>44(74.6)</td>
<td>4(6.8)</td>
<td>11(18.6)</td>
<td>59</td>
</tr>
<tr>
<td>17</td>
<td>20(74.1)</td>
<td>2(7.4)</td>
<td>5(18.5)</td>
<td>27</td>
</tr>
<tr>
<td>Season</td>
<td>2,896(69.4)</td>
<td>332(8.0)</td>
<td>944(22.6)</td>
<td>4,172</td>
</tr>
</tbody>
</table>

Antiviral Prescriptions
- 43 AVs were dispensed (below baseline).
- AVs dispensed: All Oseltamivir.
- Facilities dispensing the most AVs this week: NH Jacksonville (7), NH Pensacola, and NMC San Diego (both with 5).

<table>
<thead>
<tr>
<th>Antiviral Medications Dispensed to DON Beneficiaries, n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amantadine</td>
</tr>
<tr>
<td>Week 15</td>
</tr>
<tr>
<td>Week 16</td>
</tr>
<tr>
<td>Week 17</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:
  - 3.1% of outpatient encounters (slightly below baseline).
  - 11.3% of ER encounters (below baseline).
- 11 DON facilities (39.3%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Two facilities had an increase of 25% or higher.
  - James A Lovell FHCC had the greatest increase (31.6%) in the percentage of ILI visits.

*For Week 16, lagged due to data availability.

**Severity Indicators**

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

**Inpatient Pharmacy**
- No inpatient AVs were dispensed.

**Influenza-Associated Hospitalization Reports**
- One influenza-associated hospitalization was reported to DRSi.
- This DRSi case was also identified as a laboratory-positive case, and was dispensed an AV.

**Bacterial Coinfections**
- Two coinfections were identified; *Haemophilus* (lower respiratory) and *Escherichia* (non-respiratory).
- No positive rapid strep tests were identified among influenza cases.

<table>
<thead>
<tr>
<th>Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Season</strong> (n=178)</td>
</tr>
<tr>
<td><strong>Cumulative Baseline</strong>*(n=108.5)</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**
- Six laboratory-positive influenza cases were identified among active duty service members, four Navy and two Marine Corps (3 Type A, 3 Type B).
- Nine active duty service members (8 Navy, 1 Marine Corps) were dispensed AVs (all Oseltamivir).

**Recruits**
- No laboratory-positive influenza cases were identified among recruits.
- One AV (Oseltamivir) was dispensed to a Navy recruit at James A Lovell FHCC.

**Children**
- Laboratory cases among children were below baseline levels; 12 laboratory-positive influenza cases were identified.
  - Facility with the greatest number of outpatient cases identified: NH Camp Lejeune and ACH Martin-Benning (both with 2).
  - All cases were identified from an outpatient setting.
- AVs dispensed to children were below baseline levels; 10 AVs were dispensed (all Oseltamivir).
  - Locations with the most AVs dispensed: ACH Martin-Benning and NHC Corpus Christi (both with 2).
  - All AVs were dispensed in the outpatient setting.

**In the News**
- The CDC reported that influenza activity in the US continued to decline during Week 16.  
  
  *Details*