Overall Summary

Overall influenza activity was low, with laboratory-identified cases and dispensed AVs below baseline levels.

Key Findings

Influenza Activity and Surveillance

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

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

Influenza-Like Illness (ILI)
- ILI outpatient encounters were comparable to baseline at 3.6% of outpatient medical encounters. Details

Severity Indicators

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

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

Select Populations

Active Duty
- No laboratory-positive cases identified.
- 5 AVs dispensed. Details

Recruits
- No laboratory-positive cases identified.
- No AVs dispensed. Details
- Febrile respiratory illness rate elevated at MCRD Parris Island. NHRC Report

Children
- Laboratory cases among children were below baseline levels. Details

Active Duty Vaccination Rates

Navy ...................... 81.4%
Marine Corps ............83.9%
US Fleet Forces ........ 83.9%

View Table
Data source: MRRS, current as of 28 Nov 2016.
Overall Burden*
- The weekly burden of influenza in the DON was 29 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (82.8%). One case was identified in all three sources.
- 450 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 below baseline with 5 cases.
- Influenza types: A (1), B (3), and A and B (1).
- Facilities with the greatest number of cases:
  - Current week: NH Jacksonville (3), NH Camp Pendleton (1), and NHC New England (1).
  - Season: NH Camp Lejeune (21), NH Guam-Agana (11), and NMC San Diego (9).

Specimen Positivity
- 1.6% of all influenza specimens tested; slightly above last season (1.3%).
- Facilities testing 10 or more specimens: 6 (21.4%).

<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 45</td>
<td>7(77.8)</td>
<td>0(0.0)</td>
<td>2(22.2)</td>
<td>9</td>
</tr>
<tr>
<td>Week 46</td>
<td>13(65.0)</td>
<td>1(5.0)</td>
<td>6(30.0)</td>
<td>20</td>
</tr>
<tr>
<td>Week 47</td>
<td>4(80.0)</td>
<td>0(0.0)</td>
<td>1(20.0)</td>
<td>5</td>
</tr>
<tr>
<td>Season</td>
<td>75(76.5)</td>
<td>7(7.1)</td>
<td>16(16.3)</td>
<td>98</td>
</tr>
</tbody>
</table>

Antiviral Prescriptions
- AVs dispensed were slightly below baseline levels.
- 24 AVs (all oseltamivir) were dispensed.
- Facilities dispensing most AVs this week: James A Lovell FHCC (5), NH Oak Harbor (4) and NH Jacksonville (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 45</td>
<td>3(8.8)</td>
<td>3191.2</td>
<td>34</td>
</tr>
<tr>
<td>Week 46</td>
<td>2(3.7)</td>
<td>52(96.3)</td>
<td>54</td>
</tr>
<tr>
<td>Week 47</td>
<td>0(0.0)</td>
<td>24(100.0)</td>
<td>24</td>
</tr>
<tr>
<td>Season</td>
<td>13(4.6)</td>
<td>271(95.4)</td>
<td>284</td>
</tr>
</tbody>
</table>
Influenza-Like Illness (ILI) *
- The percentage of medical encounters that included an ILI diagnosis:
  - 3.6% of outpatient encounters (slightly below baseline).
  - 11.4% of ER admissions (below baseline).
- 16 DON facilities (57.1%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Three facilities had an increase of 25% or higher.
  - NHC Quantico (50.5%) had the greatest increase in the percent of ILI visits.

*For Week 46, lagged due to data availability

Severity Indicators

Inpatient Laboratory
- No inpatient laboratory cases were identified.

Inpatient Pharmacy
- The percentage of inpatient AVs (4.2% of all influenza AVs) was below baseline (5.1%).
- One AV was dispensed to a child at NMC San Diego (1).

Influenza-Associated Hospitalization Reports
- There were no influenza cases reported to DRSi for influenza-associated hospitalizations.

Bacterial Coinfections
- One coinfection was identified during the week, *Streptococcus*, from an upper respiratory specimen source. Details
- No rapid strep tests were 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=3)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=2.2)</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
- No laboratory-positive influenza cases were identified among active duty service members.
- 5 active duty service members (4 Navy, 1 Marine Corps) were dispensed AVs (all oseltamivir).

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

Children
- Laboratory cases were below baseline levels; 2 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases were identified at NH Jacksonville and NH Camp Pendleton.
- AVs dispensed to children were below baseline levels; 10 AVs were dispensed.
  - 1 AV was dispensed in the inpatient setting.
  - Locations with most AVs dispensed: James A Lovell FHCC (3) and NH Jacksonville (2) and NH Oak Harbor (2).

In the News
- The CDC reports that influenza activity in the US was low during week 46; ILI visits are below baseline levels. Details
- A new study finds that influenza vaccination does not reduce school absenteeism. Details