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

Key Findings

Influenza Activity and Surveillance

Laboratory
- Laboratory-positive influenza cases were slightly above baseline.
- 20 laboratory cases identified. Details

Antivirals (AVs)
- Dispensed AVs above baseline levels.
- 54 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.
- 2 inpatient AVs dispensed.
- No influenza cases reported to DRSi. Details

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

Select Populations

Active Duty
- No laboratory-positive cases identified.
- 7 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 above baseline levels. Details

Active Duty Vaccination Rates

Navy .................. 78.4%
Marine Corps .......... 81.5%
US Fleet Forces ....... 80.4%

View Table
Data source: MRRS, current as of 21 Nov 2016.
Overall Burden*
- The weekly burden of influenza in the DON was 66 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (81.8%). One case was identified in all three sources.
- 396 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 20 cases.
- Influenza types: A (13), B (6), and A and B (1).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune and NMC San Diego (both with 3), NH Bremerton and NH Oak Harbor (both with 2).
  - Season: NH Camp Lejeune (21), NH Guam-Agana (11), and NMC San Diego (9).

Specimen Positivity
- 5.6% of all influenza specimens tested; above last season (2.0%).
- Facilities testing 10 or more specimens: 6 (21.4%).

<table>
<thead>
<tr>
<th>Test Types among Positive Influenza Specimens, n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapid</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>Week 44</td>
</tr>
<tr>
<td>Week 45</td>
</tr>
<tr>
<td>Week 46</td>
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<tr>
<td>Season</td>
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</tbody>
</table>

Antiviral Prescriptions
- AVs dispensed were slightly above baseline levels.
- 54 AVs (52 oseltamivir, 2 amantadine) were dispensed.
- Facilities dispensing most AVs this week: NH Camp Lejeune (6), NH Bremerton and NH Pensacola (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>-----------------</td>
</tr>
<tr>
<td>Week 44</td>
</tr>
<tr>
<td>Week 45</td>
</tr>
<tr>
<td>Week 46</td>
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<tr>
<td>Season</td>
</tr>
</tbody>
</table>

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**Syndromic Surveillance**

**Influenza-Like Illness (ILI)**
- The percentage of medical encounters that included an ILI diagnosis:
  - 3.4% of outpatient encounters (slightly below baseline).
  - 11.1% of ER admissions (below baseline).
- 20 DON facilities (71.4%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Four facilities had an increase of 25% or higher.
  - NH Beaufort (125.1%) had the greatest increase in the percent of ILI visits (5.8% this week; 2.6% last week).

*For Week 45, lagged due to data availability*

**Severity Indicators**

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

**Inpatient Pharmacy**
- The percentage of inpatient AVs (3.7% of all influenza AVs) was below baseline (8.2%).
- AVs were dispensed at Ft Belvoir Community Hosp-FBC (1) and NMC San Diego (1).
- AVs were dispensed to non-active duty sponsors (2).

**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. [View Table]
- 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><strong>Coinfections by Specimen Source, n (%)</strong> &lt;br&gt; <strong>Lab Cases with Bacterial Coinfection (%)</strong></td>
</tr>
<tr>
<td>Upper Respiratory</td>
</tr>
<tr>
<td>1 (50.0)</td>
</tr>
<tr>
<td></td>
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<td></td>
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</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.

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Prepared by the EpiData Center (email; web)  
Navy and Marine Corps Public Health Center  
NMCPHC-EDC-TR-646-2016  
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Active Duty
- No laboratory-positive influenza cases were identified among active duty service members.
- Seven active duty service members (3 Navy, 4 Marine) were dispensed AVs (all oseltamivir).

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>8</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Antiviral</td>
<td>33</td>
<td>14</td>
<td>0</td>
</tr>
</tbody>
</table>

Children
- Laboratory cases were above baseline levels; 11 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases were identified at NH Camp Lejeune (3), NH Oak Harbor and NMC San Diego (both with 2), and others.
- AVs dispensed to children were above baseline levels; 14 AVs were dispensed.
  - No AVs were dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Camp Lejeune (3) and NH Oak Harbor (2).

<table>
<thead>
<tr>
<th>Age</th>
<th>Laboratory Cases</th>
<th>Antiviral Prescriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cases</td>
<td>Rate (per 100,000)</td>
</tr>
<tr>
<td>0-4 years</td>
<td>3</td>
<td>2.5</td>
</tr>
<tr>
<td>5-17 years</td>
<td>8</td>
<td>2.9</td>
</tr>
</tbody>
</table>

In the News
- The CDC reports that influenza activity in the US during Week 45 was low; ILI visits are below baseline levels. [Details]
- Germany, Austria, and Switzerland have reported outbreaks of a severe strain of avian influenza. [Details]