Influenza Activity and Surveillance

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

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

Influenza-Like Illness (ILI)
- ILI outpatient encounters were comparable to baseline at 4.0% of outpatient medical encounters. Details

Severity Indicators

Inpatient
- One inpatient laboratory-positive case identified.
- Four inpatient AVs dispensed.
- One influenza case reported to DRSi. Details

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

Select Populations

Active Duty
- One laboratory-positive cases identified.
- Four 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

Overall Summary

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

Active Duty Vaccination Rates

Navy .................... 86.0%
Marine Corps ...........86.9%
US Fleet Forces ....... 89.3%

View Table
Data source: MRRS, current as of 06 Dec 2016.
Influenza Activity and Surveillance

**Overall Burden***
- The weekly burden of influenza in the DON was 50 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (74.0%). One case was identified in all three sources.
- 503 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 10 cases.
- Influenza types: A (10), B (0), and A and B (0).
- Facilities with the greatest number of cases:
  - Current week: NH Oak Harbor (5), NH Camp Pendleton (1), NH Jacksonville (1), NMC Portsmouth (1), AMC Madigan-Lewis (1), and NHC Annapolis (1).
  - Season: NH Camp Lejeune (21), NH Guam-Agana (11), and NMC San Diego (9).

**Specimen Positivity**
- 2.5% of all influenza specimens tested; slightly above last season (2.1%).
- Facilities testing 10 or more specimens: 11 (39.3%).

<table>
<thead>
<tr>
<th>Test Types among Positive Influenza Specimens, n (%)</th>
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</thead>
<tbody>
<tr>
<td>Rapid</td>
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<tr>
<td>-------</td>
</tr>
<tr>
<td>Week 46</td>
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<tr>
<td>Week 47</td>
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<tr>
<td>Week 48</td>
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<tr>
<td>Season</td>
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</tbody>
</table>

**Antiviral Prescriptions**
- AVs dispensed were slightly below baseline levels.
- 37 AVs (1 amantadine, 36 oseltamivir) were dispensed.
- Facilities dispensing most AVs this week: NMC Portsmouth (7), NH Oak Harbor (5), NMC San Diego (5), and NH Camp Lejeune (4).

<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 46</td>
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<tr>
<td>Week 47</td>
</tr>
<tr>
<td>Week 48</td>
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<tr>
<td>Season</td>
</tr>
</tbody>
</table>
**Syndromic Surveillance**

**Influenza-Like Illness (ILI)***
- The percentage of medical encounters that included an ILI diagnosis:
  - 4.0% of outpatient encounters (at baseline).
  - 12.0% of ER admissions (below baseline).
- 19 DON facilities (67.9%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Seven facilities had an increase of 25% or higher.
  - James A Lovell FHCC (77.6%) had the greatest increase in the percent of ILI visits.

*For Week 47, lagged due to data availability

**Severity Indicators**

**Inpatient Laboratory**
- One inpatient laboratory case was identified (10% of all laboratory cases).
- Laboratory case identified at AMC Madigan-Lewis (1 female spouse).

**Inpatient Pharmacy**
- The percentage of inpatient AVs (10.8% of all influenza AVs) was above baseline (3.9%).
- AVs were most frequently dispensed at 96th Med Grp-Eglin (1), NMC Portsmouth (1), NMC San Diego (1), and Walter Reed Natl Mil Med Center (1).
- AVs were dispensed to an active duty service member (1), a spouse (1), a child (1), and a non-spouse family member (1).

**Influenza-Associated Hospitalization Reports**
- The inpatient laboratory influenza case was reported to DRSi as an influenza-associated hospitalization. The case was reported by OMAMC-Ft. Lewis.

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

| Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season |
|------------------------------------------------material table----------------------------------|
| Coinfections by Specimen Source, n (%)                           | Lab Cases with Bacterial Coinfection (%) |
| Upper Respiratory | Lower Respiratory | Non-Respiratory |                                       |
| Current Season (n=4) | 2 (50.0) | 0 (0.0) | 2 (50.0) | 3.8 |
| Cumulative Baseline* (n=4.3) | 1.5 (34.6) | 0.5 (11.5) | 2.3 (53.8) | 3.8 |

* 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
- One laboratory-positive influenza case was identified among active duty service members (Type A).
- The case was identified at NMC Portsmouth.
- Four active duty service members (2 Navy, 2 Marine Corps) 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>9</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Antiviral</td>
<td>39</td>
<td>17</td>
<td>0</td>
</tr>
</tbody>
</table>

Children
- Laboratory cases were below baseline levels; five laboratory-positive influenza cases were identified.
- No cases were identified from an inpatient setting.
- Outpatient cases were identified at NH Oak Harbor (4), and NH Camp Pendleton (1).
- AVs dispensed to children were below baseline levels; 11 AVs were dispensed.
  - One AV was dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Oak Harbor (5), NMC Portsmouth (2), and NMC San Diego (2).

<table>
<thead>
<tr>
<th>Age</th>
<th>Laboratory</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>1</td>
<td>0.8</td>
</tr>
<tr>
<td>5-17 years</td>
<td>4</td>
<td>1.4</td>
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</tbody>
</table>

In the News
- The week of December 4-10, 2016 is National Influenza Vaccination Week. Details
- A new study finds that influenza vaccination during pregnancy does not increase risk of autism, supports current CDC recommendation for pregnant women to get vaccinated against seasonal flu. Details