Overall Summary
Influenza activity increased from the prior week. Overall laboratory-positive cases and dispensed antivirals remain below baseline levels. However, both inpatient laboratory-positive cases and dispensed antivirals were above baseline levels.

Key Findings

Influenza Activity and Surveillance

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

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

Influenza-Like Illness (ILI)
- ILI outpatient encounters were slightly below baseline at 4.1% of outpatient medical encounters. Details

Severity Indicators

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

Coinfections
- Two bacterial coinfections among laboratory-positive cases were identified.
- One rapid strep test was identified among influenza cases. Details

Select Populations

Active Duty
- Three laboratory-positive cases identified.
- Fourteen AVs dispensed. Details

Recruits
- No laboratory-positive cases identified.
- One AV 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 ..................... 90.3%
Marine Corps ............90.6%
US Fleet Forces ........ 93.3%

View Table
Data source: MRRS, current as of 19 Dec 2016.
**Overall Burden**
- The weekly burden of influenza in the DON was 146 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (74.7%). Eleven cases were identified in all three sources.
- 767 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 49 cases.
- Influenza case types: A(44), B(2), A and B (2), unspecified (1).
- Facilities with the greatest number of cases:
  - Current week: NMC San Diego (12), NH Camp Pendleton (6), NH Oak Harbor (4), and Ft. Belvoir Community Hosp-FBC (4).
  - Season: NMC San Diego (28), NH Camp Lejeune (24), and NH Oak Harbor (17).

**Specimen Positivity**
- 10.1% of all influenza specimens tested; above last season (1.7%).
- Facilities testing 10 or more specimens: 12 (42.9%).

<table>
<thead>
<tr>
<th>Test Types among Positive Influenza Specimens, n (%)</th>
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<tbody>
<tr>
<td>Rapid</td>
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<tr>
<td>-------</td>
</tr>
<tr>
<td>Week 48</td>
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<td>Week 49</td>
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<tr>
<td>Week 50</td>
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<tr>
<td>Season</td>
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</table>

**Antiviral Prescriptions**
- AVs dispensed were below baseline levels.
- 109 AVs (1 amantadine, 108 oseltamivir) were dispensed.
- Facilities dispensing most AVs this week: NH Oak Harbor (13), NMC San Diego (12), and NH Pensacola (11).

<table>
<thead>
<tr>
<th>Antiviral Medications Dispensed to DON Beneficiaries, n (%)</th>
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<tbody>
<tr>
<td>Amantadine</td>
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<tr>
<td>Week 48</td>
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<tr>
<td>Week 49</td>
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<tr>
<td>Week 50</td>
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<tr>
<td>Season</td>
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</tbody>
</table>
Syndromic Surveillance

Influenza-Like Illness (ILI) *
- The percentage of medical encounters that included an ILI diagnosis:
  - 4.1% of outpatient encounters (slightly below baseline).
  - 12.4% of ER admissions (below baseline).
- 12 DON facilities (42.9%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - No facilities had an increase of 25% or higher.
  - NH Twentynine Palms (22.9%) had the greatest increase in the percent of ILI visits.

*For Week 49, lagged due to data availability

Severity Indicators

Inpatient Laboratory
- Three inpatient laboratory cases were identified (6.1% of all laboratory cases).
- All three laboratory cases were identified at NMC San Diego among children (2 Navy and 1 Marine Corps).

Inpatient Pharmacy
- The percentage of inpatient AVs (9.2% of all influenza AVs) was above baseline (4.8%).
- AVs were most frequently dispensed at NMC San Diego (4), 99th Med Grp-O’Callaghan Hosp (2), and NH Pensacola (2).
- AVs were dispensed to spouses (4), children (4), an active duty service member (1), and a non-active duty sponsor (1).

Influenza-Associated Hospitalization Reports
- One inpatient influenza case was reported to DRSi during Week 50. The case was identified in laboratory and pharmacy data.

Bacterial Coinfections
- Two coinfections were identified during the week.
- Both coinfections were from lower respiratory specimens; one *Pseudomonas* and one *Serratia*. Details
- One positive rapid strep test was identified among influenza cases.

| Bacterial Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season |
|---|---|---|---|---|---|
| Coinfections by Specimen Source, n (%) | Upper Respiratory | Lower Respiratory | Non-Respiratory | Lab Cases with Bacterial Coinfection (%) |
|---|---|---|---|---|---|
| Current Season (n=6) | 2(33.3) | 2(33.3) | 2(33.3) | 2.7 |
| Cumulative Baseline* (n=9) | 3.3(37.0) | 1.0(11.1) | 4.7(51.9) | 3.7 |

* 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.

< Back to Key Findings
Active Duty

- Three laboratory-positive influenza cases were identified among active duty service members, two Navy and one Marine Corps (2 Type A and 1 Type B).
- The cases were identified at NMC San Diego, NH Lemoore and James A Lovell FHCC.
- 14 active duty service members (9 Navy, 5 Marine Corps) were dispensed AVs (all oseltamivir).

Recruits

- No laboratory-positive influenza cases were identified among recruits.
- One AV was dispensed to a recruit at NH Beaufort.

<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>13</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Antiviral</td>
<td>60</td>
<td>24</td>
<td>0</td>
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</tbody>
</table>

Children

- Laboratory cases were below baseline levels; 29 laboratory-positive influenza cases were identified.
  - Two cases were identified from an inpatient setting at NMC San Diego (1 Navy and 1 Marine Corps, both age 5-17).
  - Outpatient cases were identified most frequently at NH Camp Pendleton (5), NMC San Diego (5), and NH Oak Harbor (4).
- AVs dispensed to children were at baseline levels; 46 AVs were dispensed (all oseltamivir).
  - 4 AVs were dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Oak Harbor (11) and NMC San Diego (6).

<table>
<thead>
<tr>
<th>Number of Influenza Laboratory Cases and AV Cases, DON Children</th>
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<tbody>
<tr>
<td>Age</td>
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<tr>
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<tr>
<td></td>
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<tr>
<td>0-4 years</td>
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<td>5-17 years</td>
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In the News

- The CDC reports that influenza activity increased slightly in the US during week 49. [Details]