Influenza Situation Report: 2016-2017 Season
Department of the Navy
Week 8 (19 February - 25 February 2017)

Overall Summary
Influenza activity remains elevated and exceeded two standard deviations above baseline levels for laboratory-positive cases and dispensed antivirals. Laboratory-positive cases among children also continued to exceed two standard deviations above baseline during Week 8.

Key Findings

Influenza Activity and Surveillance

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

Antivirals (AVs)
- Dispensed AVs were above baseline.
- 544 AVs dispensed. Details

Influenza-Like Illness (ILI)
- ILI encounters were at baseline at 5.0% of outpatient medical encounters. Details

Severity Indicators

Inpatient
- 8 inpatient laboratory-positive cases identified.
- 23 inpatient AVs dispensed, below baseline.
- 4 influenza cases reported to DRSi. Details

Coinfections
- 23 bacterial coinfections among laboratory-positive cases were identified from upper respiratory (6), lower respiratory (5), and non-respiratory (12) specimens.
- 10 positive rapid strep tests were identified among influenza cases. Details

Select Populations

Active Duty
- 41 laboratory-positive cases identified.
- 74 AVs dispensed. Details

Recruits
- 2 laboratory-positive cases identified.
- 1 AV dispensed. Details
- Febrile respiratory illness rates were substantially elevated MCRD San Diego and moderately elevated at MCRD Parris Island. NHRC Report

Children
- Laboratory cases among children exceeded two standard deviations above baseline levels with 249 laboratory-positive cases identified. Details

Active Duty Vaccination Rates

Navy ......................... 94.5%
Marine Corps .......... 95.8%
US Fleet Forces ........ 97.1%

View Table
Data source: MRRS, current as of 28 Feb 2017.
**Overall Burden***

- The weekly burden of influenza in the DON was 757 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (71.1%).
- 38 cases were identified in all three sources.
- 5,764 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 less than the prior week, but exceeded two standard deviations above baseline levels with 388 cases.
- Influenza case types: A (282), B (89), AB (6), and unknown (11).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (92), Ft. Belvoir Community Hosp-FBC (30), NH Pensacola (24) and NMC Portsmouth (24).
  - Season: NH Camp Lejeune (376), NMC San Diego (225), NH Jacksonville (146).

**Specimen Positivity**

- 30.4 % of all influenza specimens tested during Week 8 were positive, above last season (26.1%).
- When grouped by parent facility, 16 (57.1%) locations tested more than ten specimens.

<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><strong>Week 6</strong></td>
</tr>
<tr>
<td><strong>Week 7</strong></td>
</tr>
<tr>
<td><strong>Week 8</strong></td>
</tr>
<tr>
<td><strong>Season</strong></td>
</tr>
</tbody>
</table>

**Antiviral Prescriptions**

- 544 AVs were dispensed (over 2 standard deviations above baseline levels).
- AVs dispensed: Amantadine (1), and Oseltamivir (543).
- Facilities dispensing most AVs this week: NH Camp Lejeune (96), NH Pensacola (58), and Ft. Belvoir Community Hosp-FBC (34).
### Syndromic Surveillance

#### Influenza-Like Illness (ILI) *
- The percentage of medical encounters that included an ILI diagnosis:
  - 5.0% of outpatient encounters (at baseline).
  - 15.7% of ER encounters (below baseline).
- 11 DON facilities (39.3%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - 3 facilities had an increase of 25% or higher.
  - NHC Charleston had the greatest increase (49.6%) in the percent of ILI visits.

*For Week 7, lagged due to data availability.

#### Severity Indicators

### Inpatient Laboratory
- 8 inpatient laboratory cases were identified, below baseline.
- The cases were among spouses (4), children (2), and sponsors (2).
- Cases were all identified at NMC Portsmouth (3), NMC San Diego (3), AMC Brooke-SAMMC-Sam Houston (1), and WRNMMC (1).

### Inpatient Pharmacy
- The percentage of inpatient AVs (4.2% of all influenza AVs) was below baseline; 23 inpatient AVs were dispensed.
- AVs were most frequently dispensed at NMC San Diego (8), NMC Portsmouth (4), and NH Camp Lejeune (3).
- AVs were dispensed to spouses (11), children (6), non-active duty sponsors (3), active duty sponsors (2), and recruits (1).

### Influenza-Associated Hospitalization Reports
- Four influenza-associated hospitalizations were reported to DRSi. Three cases were also identified through laboratory-positive records and were dispensed AVs; 1 case was only identified in DRSi.

### Bacterial Coinfections
- 23 coinfections were identified; 6 *Streptococcus* (5 upper respiratory, 1 lower respiratory), 5 additional lower respiratory infections, and twelve non-respiratory infections identified. Details.
- 10 cases of Group A *Streptococcus* identified from rapid diagnostic tests.

<table>
<thead>
<tr>
<th>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>-----------------------------------------</td>
</tr>
<tr>
<td>Upper Respiratory</td>
</tr>
<tr>
<td>Current Season (n=104)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=68.5)</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
- 41 laboratory-positive influenza cases were identified among active duty service members, 31 Navy and 10 Marine Corps (31 Type A, 10 Type B).
- Facilities with the greatest number of active duty cases identified: AMC Brooke-SAMMC-Sam Houston (5), NH Camp Lejeune (4), and NH Pensacola (4).
- 74 active duty service members (50 Navy, 24 Marine Corps) were dispensed AVs (all Oseltamivir).

Recruits
- 2 laboratory-positive influenza cases were identified among Marine Corps recruits.
- 1 AV was dispensed to a recruit in Week 8.

<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>198</td>
<td>77</td>
<td>4</td>
</tr>
<tr>
<td>Antiviral</td>
<td>365</td>
<td>138</td>
<td>3</td>
</tr>
</tbody>
</table>

Children
- Laboratory cases exceeded two standard deviations above baseline levels; 249 laboratory-positive influenza cases were identified.
  - Facilities with the greatest number of outpatient cases identified: NH Camp Lejeune (78), Ft Belvoir Community Hosp-FBC (25), and NMC Portsmouth (15).
  - 2 cases were identified from an inpatient setting.
- AVs dispensed to children were above baseline levels; 265 AVs were dispensed (all Oseltamivir).
  - Locations with most AVs dispensed: NH Camp Lejeune (64), NH Pensacola (25), and NH Jacksonville (22).
  - 5 AVs were dispensed in the inpatient setting.

In the News
- The CDC reports that while influenza activity remains elevated, it has decreased slightly. Widespread activity was reported in 44 states; 5 pediatric influenza-associated deaths were reported. Details