Influenza Situation Report: 2016-2017 Season
Department of the Navy
Week 11 (12 March - 18 March 2017)

Overall Summary
Influenza activity in the DON appears to have peaked during weeks 7 and 8; however, laboratory-positive cases and dispensed antivirals continue to exceed baseline levels.

Key Findings

Influenza Activity and Surveillance

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

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

Influenza-Like Illness (ILI)
- Outpatient ILI medical encounters were slightly below baseline. Details

Severity Indicators

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

Coinfections
- 7 bacterial coinfections among laboratory-positive cases were identified from upper respiratory (3), lower respiratory (1), and non-respiratory (3) specimens.
- 4 positive rapid strep tests were identified among influenza cases. Details

Select Populations

Active Duty
- 22 laboratory-positive cases identified.
- 43 AVs dispensed. Details

Recruits
- No laboratory-positive cases identified.
- No AVs dispensed. Details
- Febrile respiratory illness rates elevated at NRTC Great Lakes. NHRC Report

Children
- Laboratory cases among children exceeded one standard deviation above baseline levels with 97 laboratory-positive cases identified. Details

Active Duty Vaccination Rates

Navy ..................... 95.3%
Marine Corps ............ 96.2%
US Fleet Forces .......... 97.7%

View Table
Overall Burden*
- The weekly burden of influenza in the DON was 430 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (73.0%).
- 36 cases were identified in all three sources.
- 7,618 DON cases have been 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 above baseline levels with 189 cases.
- Influenza case types: A (120), B (63), AB (3), and unknown (3).
- Facilities with the greatest number of cases:
  - Current week: NH Jacksonville (25), NH Camp Lejeune (23), and NMC Portsmouth (15).
  - Season: NH Camp Lejeune (514), NMC San Diego (254), and NH Jacksonville (224).

Specimen Positivity
- 20.4% of all influenza specimens tested during Week 11 were positive, below last season (26.1%).
- When grouped by parent facility, 17 (60.7%) locations tested more than ten specimens.

<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 9</td>
<td>225(70.8)</td>
<td>20(6.3)</td>
<td>73(23.0)</td>
<td>318</td>
</tr>
<tr>
<td>Week 10</td>
<td>198(77.6)</td>
<td>15(5.9)</td>
<td>42(16.5)</td>
<td>255</td>
</tr>
<tr>
<td>Week 11</td>
<td>138(70.4)</td>
<td>6(3.1)</td>
<td>52(26.5)</td>
<td>196</td>
</tr>
<tr>
<td>Season</td>
<td>2,241(68.3)</td>
<td>253(7.7)</td>
<td>785(23.9)</td>
<td>3,279</td>
</tr>
</tbody>
</table>

Antiviral Prescriptions
- 320 AVs were dispensed (above baseline levels).
- AVs dispensed: Amantadine (1) and Oseltamivir (319).
- Facilities dispensing the most AVs this week: NH Camp Lejeune (35), NMC Portsmouth (31), and NH Pensacola (28).
Syndromic Surveillance

Influenza-Like Illness (ILI) *
- The percentage of medical encounters that included an ILI diagnosis:
  - 4.1% of outpatient encounters (below baseline).
  - 14.7% of ER encounters (below baseline).
- 11 DON facilities (39.3%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - No facilities had an increase of 25% or higher.

*For Week 10, lagged due to data availability.

Severity Indicators

Inpatient Laboratory
- 4 inpatient laboratory cases were identified, below baseline.
- Cases were identified among children (2), sponsor (1), and spouse (1).
- All cases were identified at NMC Portsmouth.

Inpatient Pharmacy
- The percentage of inpatient AVs (3.4% of all influenza AVs) was below baseline; 11 inpatient AVs were dispensed.
- AVs were most frequently dispensed at NMC Portsmouth (5), NMC San Diego (2), and others.
- AVs were dispensed to children (4), non-active duty sponsors (4), spouses (2), and active duty (1).

Influenza-Associated Hospitalization Reports
- 2 influenza-associated hospitalizations were reported to DRSi. One case was identified through laboratory-positive records and DRSi; one case was identified through three sources: laboratory-positive records, pharmacy records, and DRSi.

Bacterial Coinfections
- 7 coinfections were identified; 4 Streptococcus (3 upper respiratory, 1 lower-respiratory) and 3 other non-respiratory infections. Details.
- 4 cases of Group A Streptococcus identified from rapid diagnostic tests.

| Bacterial Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season |
|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|
| Coinfections by Specimen Source, n (%)                         | Lab Cases with Bacterial Coinfection (%)                      |
| Upper Respiratory | Lower Respiratory | Non-Respiratory | Current Season  (n=137) | 60(43.8) | 13(9.5) | 64(46.7) | 4.0 |
| Cumulative Baseline* (n=93.5) | 36.2(38.7) | 9.0(9.6) | 48.3(51.7) | 4.2 |

* 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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Navy and Marine Corps Public Health Center
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Active Duty
- 22 laboratory-positive influenza cases were identified among active duty service members, 16 Navy and 6 Marine Corps (16 Type A, 6 Type B).
- Facilities with the greatest number of active duty cases identified included: NH Pensacola, Naval Health Clinic Charleston, AMC Brooke-SAMMC-Sam Houston, and NMC Portsmouth (all with 2).
- 43 active duty service members (31 Navy, 12 Marine Corps) were dispensed AVs (all Oseltamivir).

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

Children
- Laboratory cases among children exceeded one standard deviation above baseline levels; 97 laboratory-positive influenza cases were identified.
  - Facilities with the greatest number of outpatient cases identified: NH Camp Lejeune, NH Jacksonville (both with 15), and NMC Portsmouth (9).
  - 2 cases were identified from an inpatient setting.
- AVs dispensed to children were above baseline levels; 148 AVs were dispensed (147 Oseltamivir and 1 Amantadine).
  - Locations with most AVs dispensed: NH Camp Lejeune (25), NMC Portsmouth (19), and NH Jacksonville (14).

In the News
- The CDC reports that although influenza activity is declining, it remains elevated; 36 states report widespread influenza activity and the southern and southeastern regions of the US are still experiencing high levels of influenza activity. Details