Overall Summary

PLEASE NOTE: Due to data delays, overall burden and ILI trends are not reported for Week 5.

Influenza activity continues to increase; both laboratory-positive cases and dispensed antivirals exceeded baseline levels. Compared to past influenza seasons, the current week has the second highest count for both laboratory-positive cases and dispensed antivirals.

Key Findings

Influenza Activity and Surveillance

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

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

Influenza-Like Illness (ILI)
- No report due to data delays.

Severity Indicators

Inpatient
- 6 inpatient laboratory-positive cases identified.
- 21 inpatient AVs dispensed, comparable to baseline.
- 4 influenza cases reported to DRSi. Details

Coinfections
- 9 bacterial coinfections among laboratory-positive cases were identified from respiratory specimens, 6 were identified from non-respiratory specimens.
- 6 rapid strep tests were identified among influenza cases. Details

Select Populations

Active Duty
- 24 laboratory-positive cases identified.
- 50 AVs dispensed. Details

Recruits
- 3 laboratory-positive cases identified.
- 3 AVs dispensed. Details
- Febrile respiratory illness rates were substantially elevated at MCRD Parris Island.

Children
- Laboratory cases among children exceeded 1 standard deviation above baseline levels with 139 laboratory-positive cases identified. Details

Active Duty Vaccination Rates

Navy ....................... 93.9%
Marine Corps ............ 95.0%
US Fleet Forces ........ 96.5%

View Table
Data source: MRRS, current as of 06 Feb 2017.

Prepared by the EpiData Center (email; web)
Navy and Marine Corps Public Health Center
Overall Burden*
No report for Week 5 due to data delays.

**Laboratory Cases**
- Laboratory-positive cases were higher than the prior week and exceeded baseline levels with 229 cases.
- Influenza case types: A (196), B (24), AB (3) and unknown (6).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (45), NMC San Diego (23), Ft Belvoir Community Hosp-FBC (16).
  - Season: NMC San Diego (137), NH Camp Lejeune (136), and NH Bremerton (93).

**Specimen Positivity**
- 24.2% of all influenza specimens tested during Week 5 were positive, above last season (14.0%).
- When grouped by parent facility, 18 (64.3%) 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 3</td>
<td>114(67.9)</td>
<td>15(8.9)</td>
<td>39(23.2)</td>
<td>168</td>
</tr>
<tr>
<td>Week 4</td>
<td>126(71.6)</td>
<td>19(10.8)</td>
<td>31(17.6)</td>
<td>176</td>
</tr>
<tr>
<td>Week 5</td>
<td>171(73.1)</td>
<td>5(2.1)</td>
<td>58(24.8)</td>
<td>234</td>
</tr>
<tr>
<td>Season</td>
<td>833(64.6)</td>
<td>129(10.0)</td>
<td>327(25.4)</td>
<td>1,289</td>
</tr>
</tbody>
</table>

**Antiviral Prescriptions**
- 356 AVs were dispensed (above baseline levels).
- AVs dispensed: Amantadine (0), and Oseltamivir (356).
- Facilities dispensing most AVs this week: NH Camp Lejeune (42), NMC San Diego (35), and NH Bremerton (33).

<table>
<thead>
<tr>
<th>Antiviral Medications Dispensed to DON Beneficiaries, n (%)</th>
<th>Amantadine</th>
<th>Oseltamivir</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 3</td>
<td>1(0.4)</td>
<td>230(99.6)</td>
<td>231</td>
</tr>
<tr>
<td>Week 4</td>
<td>3(1.1)</td>
<td>277(98.9)</td>
<td>280</td>
</tr>
<tr>
<td>Week 5</td>
<td>0(0.0)</td>
<td>356(100.0)</td>
<td>356</td>
</tr>
<tr>
<td>Season</td>
<td>31(1.5)</td>
<td>2,021(98.5)</td>
<td>2,052</td>
</tr>
</tbody>
</table>
Symdromatic Surveillance

Influenza-Like Illness (ILI) *
No report for Week 5 due to data delays.

### Severity Indicators

#### Inpatient Laboratory
- Six inpatient laboratory cases were identified, slightly below baseline.
- The cases were among children, sponsors and spouses (2 each).
- Cases were most frequently at NMC San Diego (5) and WRNMMC (1).

#### Inpatient Pharmacy
- The percentage of inpatient AVs (5.9% of all influenza AVs) was at baseline; 21 inpatient AVs were dispensed.
- AVs were most frequently dispensed at NMC San Diego (9); WRNMMC (4), 60th Med Grp- Travis (2), and AMC Womack-Bragg (2).
- AVs were dispensed to spouses (11), children (4), non-active duty sponsors (3), recruits (2) and one active duty sponsor.

#### Influenza-Associated Hospitalization Reports
- Four influenza-associated hospitalizations were reported to DRSi. All four DRSi reports were also identified as laboratory-positive cases and were dispensed AVs.

#### Bacterial Coinfections
- Fifteen coinfections were identified; nine *Streptococcus* (upper respiratory), and six non-respiratory infections (*Streptococcus, Staphylococcus, Escherichia, and Rothia*). Details.
- Six positive 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>Coinfections by Specimen Source, n (%)</td>
</tr>
<tr>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Upper Respiratory</td>
</tr>
<tr>
<td>Current Season (n=64)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=51.7)</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**
- 24 laboratory-positive influenza cases were identified among active duty service members, 18 Navy and 6 Marine Corps (22 Type A, 2 Type B).
  - Vaccination records were available for 22 cases.
- Facilities with the greatest number of active duty cases identified: NMC San Diego (5), NHC Quantico (5), and NH Bremerton (3).
- 50 active duty service members (39 Navy, 11 Marine Corps) were dispensed AVs (all Oseltamivir).

**Recruits**
- 3 laboratory-positive influenza cases were identified among recruits (1 Navy and 2 Marine Corps).
- 3 AVs were dispensed to recruits (all Marine Corps).

<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>126</td>
<td>45</td>
<td>2</td>
</tr>
<tr>
<td>Antiviral</td>
<td>247</td>
<td>81</td>
<td>2</td>
</tr>
</tbody>
</table>

**Children**
- Laboratory cases were exceeded one standard deviation above baseline levels; 139 laboratory-positive influenza cases were identified.
  - Two cases were identified from an inpatient setting.
- Facilities with the greatest number of outpatient cases identified: NH Camp Lejeune (38) and Ft Belvoir Community Hosp-FBC (13).
- AVs dispensed to children were above baseline levels; 148 AVs were dispensed (all Oseltamivir).
  - 4 AVs were dispensed in the inpatient setting.
- Locations with most AVs dispensed: NH Camp Lejeune (33); Ft Belvoir Community Hosp-FBC (12) and NH Bremerton (11).

**In the News**
- The CDC reports that US influenza activity increased and is widespread in 40 states and Puerto Rico. ILI activity is above baseline levels and seven influenza-associated pediatric deaths were reported. Details