### Overall Summary

Influenza activity continues to increase; both laboratory-positive cases and dispensed antivirals exceeded baseline levels. Laboratory-positive cases among children exceeded one standard deviation above baseline during Week 6.

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### Key Findings

#### Influenza Activity and Surveillance

**Laboratory**
- Laboratory-positive influenza cases were above baseline.
- 222 laboratory cases identified. [Details](#)

**Antivirals (AVs)**
- Dispensed AVs were above baseline.
- 327 AVs dispensed. [Details](#)

**Influenza-Like Illness (ILI)**
-ILI encounters were slightly below baseline at 4.6% of outpatient medical encounters. [Details](#)

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#### Severity Indicators

**Inpatient**
- Seven inpatient laboratory-positive cases identified.
- 21 inpatient AVs dispensed, above baseline.
- One influenza case reported to DRSi. [Details](#)

**Coinfections**
- One bacterial coinfection among laboratory-positive cases was identified from a respiratory specimen and one was identified from a non-respiratory specimen.
- Nine positive rapid strep tests were identified among influenza cases. [Details](#)

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#### Select Populations

**Active Duty**
- 18 laboratory-positive cases identified.
- 32 AVs dispensed. [Details](#)

**Recruits**
- Two laboratory-positive cases identified.
- One AV dispensed. [Details](#)
- Febrile respiratory illness rates were elevated at MCRD Parris Island and NRTC Great Lakes. [NHRC Report](#)

**Children**
- Laboratory cases among children exceeded one standard deviation above baseline levels with 135 laboratory-positive cases identified. [Details](#)

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#### Active Duty Vaccination Rates

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Navy</td>
<td>94.1%</td>
</tr>
<tr>
<td>Marine Corps</td>
<td>95.2%</td>
</tr>
<tr>
<td>US Fleet Forces</td>
<td>96.8%</td>
</tr>
</tbody>
</table>

[View Table](#)

Data source: MRRS, current as of 13 Feb 2017.
### Overall Burden*
- The weekly burden of influenza in the DON was 488 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (62.8%).
- 48 cases were identified in all three sources.
- 3,806 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 lower than the prior week but exceeded baseline levels with 222 cases.
- Influenza case types: A (189), B (31), AB (2).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (43), NMC San Diego (33), NH Camp Pendleton (21).
  - Season: NH Camp Lejeune (181), NMC San Diego (173), NH Camp Pendleton (104).

### Specimen Positivity
- 26.0% of all influenza specimens tested during Week 6 were positive, above last season (18.7%).
- When grouped by parent facility, 15 (53.6%) 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 4</td>
<td>126(71.6)</td>
<td>21(11.9)</td>
<td>29(16.5)</td>
<td>176</td>
</tr>
<tr>
<td>Week 5</td>
<td>182(70.5)</td>
<td>7(2.7)</td>
<td>69(26.7)</td>
<td>258</td>
</tr>
<tr>
<td>Week 6</td>
<td>152(66.1)</td>
<td>4(1.7)</td>
<td>74(32.2)</td>
<td>230</td>
</tr>
<tr>
<td>Season</td>
<td>996(64.5)</td>
<td>137(8.9)</td>
<td>410(26.6)</td>
<td>1,543</td>
</tr>
</tbody>
</table>

### Antiviral Prescriptions
- 327 AVs were dispensed (slightly above baseline levels).
- AVs dispensed: Amantadine (0), Oseltamivir (326), and Rimantadine (1).
- 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>Rimantadine</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 4</td>
<td>3(1.1)</td>
<td>276(98.9)</td>
<td>0(0.0)</td>
<td>279</td>
</tr>
<tr>
<td>Week 5</td>
<td>0(0.0)</td>
<td>372(100.0)</td>
<td>0(0.0)</td>
<td>372</td>
</tr>
<tr>
<td>Week 6</td>
<td>0(0.0)</td>
<td>326(99.7)</td>
<td>1(0.3)</td>
<td>327</td>
</tr>
<tr>
<td>Season</td>
<td>31(1.3)</td>
<td>2,360(98.7)</td>
<td>1(0.0)</td>
<td>2,392</td>
</tr>
</tbody>
</table>
**Syndromic Surveillance**

**Influenza-Like Illness (ILI) * **
- The percentage of medical encounters that included an ILI diagnosis:
  - 4.6% of outpatient encounters (below baseline).
  - 15.2% of ER encounters (below baseline).
- 17 DON facilities (60.7%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Four facilities had an increase of 25% or higher.
  - James Lovell FHCC had the greatest increase (51.0%) in the percent of ILI visits.

*For Week 5, lagged due to data availability.

**Severity Indicators**

**Inpatient Laboratory**
- Seven inpatient laboratory cases were identified, above baseline.
- The cases were among children (3), sponsors and spouses (2 each).
- Cases were most frequently at NMC San Diego, NMC Portsmouth, WRNMMC (2 each), and AMC Brooke—SAMMC-Sam Houston (1).

**Inpatient Pharmacy**
- The percentage of inpatient AVs (6.4% of all influenza AVs) was above baseline; 21 inpatient AVs were dispensed.
- AVs were most frequently dispensed at NMC San Diego (7), WRNMMC, and NMC Portsmouth (both with 3).
- AVs were dispensed to spouses (8), children (6), non-active duty sponsors (6), and one active duty sponsor.

**Influenza-Associated Hospitalization Reports**
- One influenza-associated hospitalization was reported to DRSi. This case was also identified through laboratory-positive records and was dispensed an AV.

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**Bacterial Coinfections**
- Two coinfections were identified; one *Streptococcus* (upper respiratory), and one *Helicobacter* (non-respiratory). **Details**
- Nine positive rapid strep tests were 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 |
| Current Season (n=66) | 27(40.9) | 6(9.1) | 33(50.0) |
| Cumulative Baseline* (n=56.0) | 20.5(36.6) | 6.2(11.0) | 29.3(52.4) |

* 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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Active Duty
- 18 laboratory-positive influenza cases were identified among active duty service members, 12 Navy and 6 Marine Corps (13 Type A, 4 Type B, 1 Type AB).
- Facilities with the greatest number of active duty cases identified: NMC San Diego (4), NH Camp Lejeune (3), NH Camp Pendleton, and WRNMMC (both with 2).
- 32 active duty service members (21 Navy, 11 Marine Corps) were dispensed AVs (all Oseltamivir).

Recruits
- Two laboratory-positive influenza cases were identified among recruits (1 Navy and 1 Marine Corps).
- One AV was dispensed to a Marine Corps recruit (Oseltamivir).

Children
- Laboratory cases were exceeded one standard deviation above baseline levels; 135 laboratory-positive influenza cases were identified.
- Facilities with the greatest number of outpatient cases identified: NH Camp Lejeune (34), NMC San Diego (14), and NH Camp Pendleton (13).
- Three cases were identified from an inpatient setting.
- AVs dispensed to children were above baseline levels; 152 AVs were dispensed (151 Oseltamivir, one Rimantadine).
- Locations with most AVs dispensed: NH Camp Lejeune (30), NHC Corpus Christi (14), Ft Belvoir Community Hosp-FBC (12).
- Six AVs were dispensed in the inpatient setting.

In the News
- The CDC reports that US influenza activity increased and is widespread in 43 states and Puerto Rico. Five influenza-associated pediatric deaths were reported during Week 5 and the proportion of outpatient medical encounters for ILI was more than twice the national baseline. Details