Overall Summary

Influenza activity in the DON continues to decline. Laboratory positive cases are slightly above baseline levels and dispensed antivirals are comparable to baseline levels.

Key Findings

### Influenza Activity and Surveillance

**Laboratory**
- Laboratory-positive influenza cases were slightly above baseline.
- 72 laboratory cases identified. [Details]

**Antivirals (AVs)**
- Dispensed AVs were comparable to baseline.
- 99 AVs dispensed. [Details]

**Influenza-Like Illness (ILI)**
- ILI outpatient encounters were slightly below baseline at 3.5% of outpatient medical encounters. [Details]

### Severity Indicators

**Inpatient**
- 3 inpatient laboratory-positive cases identified.
- 7 inpatient AVs dispensed, below baseline.
- 1 influenza case reported to DRSi. [Details]

**Coinfections**
- 3 bacterial coinfections among laboratory-positive cases were identified from upper respiratory (2) and lower-respiratory (1) specimens.
- 2 positive rapid strep tests were identified among influenza cases. [Details]

### Select Populations

**Active Duty**
- 11 laboratory-positive cases identified.
- 17 AVs dispensed. [Details]

**Recruits**
- No laboratory-positive cases identified.
- 1 AV dispensed. [Details]
- Febrile respiratory illness rates were at or below expected values at recruit training centers.

**Children**
- Laboratory cases among children were slightly above baseline levels with 36 laboratory-positive cases identified. [Details]
Overall Burden*
- The weekly burden of influenza in the DON was 150 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (66.0%).
- 8 cases were identified in all three sources.
- 9,313 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 slightly above baseline levels with 72 cases.
- Influenza case types: A (30), B (39), and AB (3).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Jacksonville (9), NMC San Diego (7), and 81st Med Grp-Keesler (7).
  - Season: NH Camp Lejeune (587), NH Jacksonville (307), and NMC San Diego (293).

Specimen Positivity
- 13.8% of all influenza specimens tested during Week 15 were positive, below last season (16.0%).
- When grouped by parent facility, 10 (35.7%) locations tested more than ten specimens.

Antiviral Prescriptions
- 99 AVs were dispensed (comparable to baseline).
- AVs dispensed: Oseltamivir (97) and Amantadine (2).
- Facilities dispensing the most AVs this week: NMC Portsmouth (11), NH Pensacola (10), NH Bremerton (7), and NH Jacksonville (7).

<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 13</td>
<td>172(77.1)</td>
<td>18(8.1)</td>
<td>33(14.8)</td>
<td>223</td>
</tr>
<tr>
<td>Week 14</td>
<td>102(73.9)</td>
<td>12(8.7)</td>
<td>24(17.4)</td>
<td>138</td>
</tr>
<tr>
<td>Week 15</td>
<td>47(65.3)</td>
<td>1(1.4)</td>
<td>24(33.3)</td>
<td>72</td>
</tr>
<tr>
<td>Season</td>
<td>2,830(69.3)</td>
<td>322(7.9)</td>
<td>929(22.8)</td>
<td>4,081</td>
</tr>
</tbody>
</table>

<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 13</td>
<td>0(0.0)</td>
<td>247(100.0)</td>
<td>0(0.0)</td>
<td>247</td>
</tr>
<tr>
<td>Week 14</td>
<td>1(0.6)</td>
<td>177(99.4)</td>
<td>0(0.0)</td>
<td>178</td>
</tr>
<tr>
<td>Week 15</td>
<td>2(2.0)</td>
<td>97(98.0)</td>
<td>0(0.0)</td>
<td>99</td>
</tr>
<tr>
<td>Season</td>
<td>40(0.7)</td>
<td>5,509(99.3)</td>
<td>1(0.0)</td>
<td>5,550</td>
</tr>
</tbody>
</table>
Syndromic Surveillance

Influenza-Like Illness (ILI) *
- The percentage of medical encounters that included an ILI diagnosis:
  - 3.5% of outpatient encounters (slightly below baseline).
  - 13.3% of ER encounters (below baseline).
- 7 DON facilities (25.0%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - No facilities had an increase of 25% or higher.
  - NHC Annapolis had the greatest increase (23.0%) in the percentage of ILI visits.

*For Week 14, lagged due to data availability.

Severity Indicators

Inpatient Laboratory
- 3 inpatient laboratory cases were identified, slightly below baseline.
- Cases were identified among children (2) and a retiree (1).
- Cases were identified at NMC Portsmouth (2) and NMC San Diego (1).

Inpatient Pharmacy
- The percentage of inpatient AVs (7.1% of all influenza AVs) was slightly below baseline; 7 inpatient AVs were dispensed.
- Inpatient AVs were most frequently dispensed at NMC Portsmouth (2), NMC San Diego (3), AMC Tripler-Shafter (1), NH Camp Pendleton (1), and WRNMMC (1).
- AVs were dispensed to non-active duty sponsors (3), children (2), spouses (1), and an active duty sponsor (1).

Influenza-Associated Hospitalization Reports
- 1 influenza-associated hospitalization was reported to DRSi.

Bacterial Coinfections
- 3 coinfections were identified; *Streptococcus* (2 upper respiratory) and *Acinetobacter* (lower respiratory. Additionally, two *Streptococcus* infections were identified through rapid tests. Details.

<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>Upper Respiratory</td>
</tr>
<tr>
<td>Current Season (n=174)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=104.2)</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

- 11 laboratory-positive influenza cases were identified among active duty service members, 8 Navy and 3 Marine Corps (6 Type A, 5 Type B).
- 11 facilities had 1 case each.
- 17 active duty service members (14 Navy, 3 Marine Corps) were dispensed AVs (16 Oseltamivir, 1 Amantadine).

Recruits

- No laboratory-positive influenza cases were identified among recruits.
- One AV (Oseltamivir) was dispensed to a Navy recruit.

<table>
<thead>
<tr>
<th>Case Type</th>
<th>Recruits</th>
<th>Active Duty</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Navy</td>
<td>Marine Corps</td>
<td></td>
</tr>
<tr>
<td>Laboratory</td>
<td>5</td>
<td>12</td>
<td>482</td>
</tr>
<tr>
<td>Antiviral</td>
<td>7</td>
<td>13</td>
<td>799</td>
</tr>
</tbody>
</table>

Children

- Laboratory cases among children were slightly above baseline levels; 36 laboratory-positive influenza cases were identified.
  - Facilities with the greatest number of outpatient cases identified: NHC, Quantico (4), Ft Belvoir Community Hosp-FBC (3), NH Jacksonville (3), NMC Portsmouth (3), and NMC San Diego (3).
  - Two cases were identified from an inpatient setting.
- AVs dispensed to children were slightly above baseline levels; 34 AVs were dispensed (all Oseltamivir).
  - Locations with the most AVs dispensed: NH Pensacola (5), NMC Portsmouth (5), Ft Belvoir Community Hosp-FBC (3), and NHC Quantico (3).
  - Two AVs were dispensed in the inpatient setting.

<table>
<thead>
<tr>
<th>Laboratory Cases and AV Cases, DON Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>0-4 years</td>
</tr>
<tr>
<td>5-17 years</td>
</tr>
</tbody>
</table>

In the News

- The CDC reports that influenza activity continues to decrease, but remains elevated; 18 states reported widespread flu activity and 5 pediatric influenza-associated deaths were reported. Details