Influenza activity in the DON remains elevated, but has decreased since the prior week. Laboratory positive cases exceeded baseline levels by more than one standard deviations and dispensed antivirals continue to exceed baseline levels.

Key Findings

**Influenza Activity and Surveillance**

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

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

**Influenza-Like Illness (ILI)**
- ILI outpatient encounters were at baseline at 4.1% of outpatient medical encounters. [Details]

**Severity Indicators**

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

**Coinfections**
- 9 bacterial coinfections among laboratory-positive cases were identified from upper respiratory (5) and non-respiratory (4) specimens.
- 8 positive rapid strep tests were identified among influenza cases. [Details]

**Select Populations**

**Active Duty**
- 29 laboratory-positive cases identified.
- 34 AVs dispensed. [Details]

**Recruits**
- No laboratory-positive cases identified.
- 2 AVs dispensed. [Details]
- Febrile respiratory illness rates were at or below expected levels. [NHRC Report]

**Children**
- Laboratory cases among children exceeded one standard deviation above baseline levels with 95 laboratory-positive cases identified. [Details]

Active Duty Vaccination Rates

Navy ......................... 95.9%
Marine Corps ............ 96.4%
US Fleet Forces .......... 98.2%

[View Table]
Data source: MRRS, current as of 03 Apr 2017.
Influenza Activity and Surveillance

Overall Burden*
- The weekly burden of influenza in the DON was 382 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (61.3%).
- 31 cases were identified in all three sources.
- 8,764 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 195 cases.
- Influenza case types: A (82), B (108), AB (1), and unknown (4).
- Facilities with the greatest number of cases:
  - Current week: NMC Portsmouth (23), NHC Quantico (20), and NH Jacksonville (19).
  - Season: NH Camp Lejeune (568), NH Jacksonville (282), and NMC San Diego (277).

Specimen Positivity
- 22.2% of all influenza specimens tested during Week 13 were positive, above last season (19.2%).
- When grouped by parent facility, 16 (57.1%) locations tested more than ten specimens.

Antiviral Prescriptions
- 236 AVs were dispensed (above baseline).
- AVs dispensed: Oseltamivir (236).
- Facilities dispensing the most AVs this week: NMC Portsmouth (29), NH Pensacola (22), and NH Jacksonville (20).
**Syndromic Surveillance**

**Influenza-Like Illness (ILI)** *
- The percentage of medical encounters that included an ILI diagnosis:
  - 4.1% of outpatient encounters (at baseline).
  - 15.0% of ER encounters (below baseline).
- 13 DON facilities (46.4%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - 6 facilities had an increase of 25% or higher.
  - NH Rota had the greatest increase (57.3%) in the percentage of ILI visits.

*For Week 12, lagged due to data availability.

**Severity Indicators**

**Inpatient Laboratory**
- 7 inpatient laboratory cases were identified, above baseline.
- Cases were identified among spouses (3), children (2) and retirees (2).
- Cases were identified at WRNMMC (3), NMC Portsmouth (2), 673rd Med Grp-Elmendorf (1) and NMC San Diego (1).

**Inpatient Pharmacy**
- The percentage of inpatient AVs (5.5% of all influenza AVs) was below baseline; 13 inpatient AVs were dispensed.
- AVs were most frequently dispensed at NMC Portsmouth (5), NMC San Diego (2), and WRNMMC (2).
- AVs were dispensed to spouses (5), active duty sponsors (3), children (3), non-active duty sponsors (2).

**Influenza-Associated Hospitalization Reports**
- Two influenza-associated hospitalizations were reported to DRSi. Both were also identified through laboratory-positive records and pharmacy transactions.

**Bacterial Coinfections**
- 9 coinfections were identified; 4 *Streptococcus* (3 upper respiratory, 1 non-respiratory), 3 other non-respiratory, and 2 upper respiratory infections. Details.
- 8 positive rapid strep tests were identified among influenza cases.

### Bacterial Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season

<table>
<thead>
<tr>
<th>Coinfections by Specimen Source, n (%)</th>
<th>Lab Cases with Bacterial Coinfection (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Respiratory</td>
<td>Lower Respiratory</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=99.2)</td>
<td>38.7(39.0)</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
- 29 laboratory-positive influenza cases were identified among active duty service members, 19 Navy and 10 Marine Corps (17 Type A, 12 Type B).
- Facilities with the greatest number of active duty cases identified included: NHC Quantico (5), NHC Charleston (3), and NH Camp Lejeune (3).
- 34 active duty service members (25 Navy, 9 Marine Corps) were dispensed AVs (all Oseltamivir).

Recruits
- No laboratory-positive influenza cases were identified among recruits.
- Two AVs were dispensed to Navy recruits.

<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>316</td>
<td>124</td>
<td>5</td>
</tr>
<tr>
<td>Antiviral</td>
<td>544</td>
<td>194</td>
<td>6</td>
</tr>
</tbody>
</table>

Children
- Laboratory cases among children exceeded one standard deviation above baseline levels; 95 laboratory-positive influenza cases were identified.
  - Facilities with the greatest number of outpatient cases identified: NMC Portsmouth (14), NHC Quantico (13), and Ft. Belvoir Community Hosp-FBC (8).
  - Two cases were identified from an inpatient setting.
- AVs dispensed to children were above baseline levels; 101 AVs were dispensed (all Oseltamivir).
  - Locations with most AVs dispensed: NMC Portsmouth (16), Ft. Belvoir Community Hosp-FBC (10), and NH Pensacola (9).
  - Three AVs were dispensed in the inpatient setting.

In the News
- The CDC reports that although influenza activity is declining, it remains elevated; six pediatric flu deaths were reported to the CDC. Details
- A Pediatrics article concluded that influenza vaccination reduced the risk of death in a pediatric cohort; the study found a vaccine effectiveness of 65% against death during the study period of 2010-2014. Details