Overall Summary
Influenza activity in the DON remains elevated, but has decreased since the prior week. Overall, laboratory positive cases and dispensed antivirals continue to exceed baseline levels, while laboratory-positive cases among children exceeded one standard deviation above baseline.

Key Findings

Influenza Activity and Surveillance

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

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

Influenza-Like Illness (ILI)
- ILI outpatient encounters were slightly below baseline at 3.8% of outpatient medical encounters. [Details]

Severity Indicators

Inpatient
- 6 inpatient laboratory-positive cases identified.
- 11 inpatient AVs dispensed, above baseline.
- 6 influenza cases reported to DRSi. [Details]

Coinfections
- 6 bacterial coinfections among laboratory-positive cases were identified from upper respiratory (5) and non-respiratory (1) specimens.
- 6 positive rapid strep tests were identified among influenza cases. [Details]

Select Populations

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

Recruits
- No laboratory-positive cases identified.
- 1 AV dispensed. [Details]
- Febrile respiratory illness rates were above expected levels at NTRC Great Lakes. [NHRC Report]

Children
- Laboratory cases among children exceeded one standard deviation above baseline levels with 68 laboratory-positive cases identified. [Details]

Active Duty Vaccination Rates

Navy .................... 96.0%
Marine Corps .......... 96.7%
US Fleet Forces ...... 98.3%

View Table
Data source: MRRS, current as of 10 Apr 2017.
**Overall Burden***

- The weekly burden of influenza in the DON was 256 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (66.8%).
- 28 cases were identified in all three sources.
- 9,108 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 124 cases.
- Influenza case types: A (46), B (76), and AB (2).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Lejeune (17), NH Jacksonville (15), and NHC Quantico (15).
  - Season: NH Camp Lejeune (585), NH Jacksonville (298), and NMC San Diego (284).

**Specimen Positivity**

- 16.7% of all influenza specimens tested during Week 14 were positive, above last season (16.6%).
- When grouped by parent facility, 14 (50.0%) locations tested more than ten specimens.

<table>
<thead>
<tr>
<th>Pos. Specimens and Type</th>
<th>% Pos. Specimens by MTF</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEST TYPES AMONG POSITIVE INFLUENZA SPECIMENS, n (%)</td>
<td>Rapid</td>
</tr>
<tr>
<td>Week 12</td>
<td>205(76.5)</td>
</tr>
<tr>
<td>Week 13</td>
<td>172(77.5)</td>
</tr>
<tr>
<td>Week 14</td>
<td>99(78.6)</td>
</tr>
<tr>
<td>Season</td>
<td>2,780(69.6)</td>
</tr>
</tbody>
</table>

**Antiviral Prescriptions**

- 174 AVs were dispensed (above baseline).
- AVs dispensed: Oseltamivir (173) and Amantadine (1).
- Facilities dispensing the most AVs this week: NH Camp Lejeune (18), NMC Portsmouth (16), and Ft Belvoir Community Hosp-FBC (14).

Antiviral Medications Dispensed to DON Beneficiaries, n (%)

<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 12</td>
<td>0(0.0)</td>
<td>364(100.0)</td>
<td>0(0.0)</td>
<td>364</td>
</tr>
<tr>
<td>Week 13</td>
<td>0(0.0)</td>
<td>250(100.0)</td>
<td>0(0.0)</td>
<td>250</td>
</tr>
<tr>
<td>Week 14</td>
<td>1(0.6)</td>
<td>173(99.4)</td>
<td>0(0.0)</td>
<td>174</td>
</tr>
<tr>
<td>Season</td>
<td>38(0.7)</td>
<td>5,412(99.3)</td>
<td>1(0.0)</td>
<td>5,451</td>
</tr>
</tbody>
</table>
**Syndromic Surveillance**

**Influenza-Like Illness (ILI)**
- The percentage of medical encounters that included an ILI diagnosis:
  - 3.8% of outpatient encounters (slightly below baseline).
  - 13.8% of ER encounters (below baseline).
- 9 DON facilities (32.1%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - 1 facility had an increase of 25% or higher.
  - NH Rota had the greatest increase (72.5%) in the percentage of ILI visits.

*For Week 13, lagged due to data availability.

**Severity Indicators**

**Inpatient Laboratory**
- 6 inpatient laboratory cases were identified, slightly below baseline.
- Cases were identified among spouses (2) and retirees (4).
- Cases were identified at AMC Madigan-Lewis (2), NMC Portsmouth (2), NH Jacksonville (1), and WRNMMC (1).

**Inpatient Pharmacy**
- The percentage of inpatient AVs (6.3% of all influenza AVs) was slightly above baseline; 11 inpatient AVs were dispensed.
- Inpatient AVs were most frequently dispensed at AMC Madigan-Lewis (3), NH Jacksonville, NMC Portsmouth, WRNMMC (all with 2), and others.
- AVs were dispensed to non-active duty sponsors (4), spouses (3), children (3), and one recruit.

**Influenza-Associated Hospitalization Reports**
- Six influenza-associated hospitalizations were reported to DRSi.

**Bacterial Coinfections**
- 6 coinfections were identified; all *Streptococcus* (5 upper respiratory, 1 non-respiratory). Details
- 6 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><strong>Coinfections by Specimen Source, n (%)</strong></td>
</tr>
<tr>
<td>Upper Respiratory</td>
</tr>
<tr>
<td>Current Season (n=171)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=102.8)</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.

< Back to Key Findings

Prepared by the EpiData Center (email; web)
Navy and Marine Corps Public Health Center
Active Duty
- 11 laboratory-positive influenza cases were identified among active duty service members, 9 Navy and 2 Marine Corps (4 Type A, 7 Type B).
- Facilities with the greatest number of active duty cases identified included: NHC Quantico (2), Ft Belvoir Community Hosp-FBC (2), and others.
- 25 active duty service members (19 Navy, 6 Marine Corps) were dispensed AVs (all Oseltamivir).

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

| Number of DON Active Duty and Recruit Cases since Week 40, 2016-2017 Season |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Case Type       | Navy | Marine Corps | Navy | Marine Corps | Total |
| Laboratory      | 327  | 127   | 5    | 12   | 471   |
| Antiviral       | 562  | 201   | 6    | 13   | 782   |

Children
- Laboratory cases among children exceeded one standard deviation above baseline levels; 68 laboratory-positive influenza cases were identified.
  - Facilities with the greatest number of outpatient cases identified: NHC, Quantico (11), NH Camp Lejeune (10), Ft Belvoir Community Hosp-FBC (8), and NH Jacksonville (6).
  - All cases were identified from an outpatient setting.
- AVs dispensed to children were above baseline levels; 71 AVs were dispensed (all Oseltamivir).
  - Locations with most AVs dispensed: Ft. Belvoir Community Hosp-FBC and NH Camp Lejeune (both with 7), and others.
  - Two AVs were dispensed in the inpatient setting.

| Number of Influenza Laboratory Cases and AV Cases, DON Children |
|-----------------|-----------------|-----------------|
| Age             | Laboratory Cases | Antiviral Prescriptions |
|                 | Rate (per 100,000) | Count | Rate (per 100,000) |
| 0-4 years       | 21              | 17.5   | 51 | 18.2 |
| 5-17 years      | 47              | 16.8   | 20 | 16.6 |

In the News
- The CDC reports that although influenza activity is declining, it remains elevated; 24 states report widespread flu activity. [Details]
- A study by CDC authors published in Emerging Infectious Diseases found that the CDC’s partnership with 39 countries improved their influenza surveillance and the capacity to identify emerging virologic diseases. [Details]