**Weekly Highlights:**

- Overall influenza activity in the DON remains **elevated**. Laboratory-positive cases, dispensed AVs, and the percent of ILI outpatient visits are all **elevated**. Both laboratory-positive cases and dispensed antivirals decreased over the prior week.
- The number of inpatient dispensed antivirals is **elevated**.
- The number of inpatient laboratory cases is **normal** and increased slightly over the prior week.
- Active duty laboratory-positive cases and dispensed antivirals are **elevated**. Recruit laboratory cases and dispensed antivirals are **normal**.

**Influenza Surveillance Indicators**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td>N 566</td>
<td>Elevated</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 1420</td>
<td>Elevated</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 5.6</td>
<td>Elevated</td>
</tr>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>N 7</td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>N 26</td>
<td>Elevated</td>
</tr>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>N 83</td>
<td>Elevated</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>N 227</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>N 1</td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>N 6</td>
<td>Normal</td>
</tr>
</tbody>
</table>

**Overall Burden (Data Lagged, Week 6)**

**DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data**

**Supporting Surveillance**

- **DOD Seasonal Influenza Surveillance Summary (AFHSB).**
  - Week 6 highlights:
    - The percentage of positive lab tests remained high, but continued to decrease to 16.3% for service members and 30.2% for other beneficiaries for Week 6.
    - Access the full report [here](#).

- **Operational Infectious Diseases (OID) Weekly Surveillance Report (NHRC).**
  - 15FEB2018 report highlights:
    - Clusters of influenza among trainees were seen at basic training centers in San Diego, New Jersey, and South Carolina.
    - Access the most recent NHRC OID Surveillance reports [here](#).
Burden: Laboratory activity remains elevated, but is beginning to trend downward. The number of laboratory-positive cases (N=566) decreased 19.7% from the prior week.

Specimens: Overall percent positivity is 27.0%, with 60.7% of cases identified as influenza A.

Severity: Seven inpatient laboratory-positive case were identified among family members (N=3), retirees (N=3), and an AD service member (N=1).

Age: Children ages 5-17 had the highest rate of laboratory-positive influenza cases at 86.1 cases per 100,000 persons, while children ages 0-4 had the second highest rate at 80.5 cases per 100,000 persons.

Location: NH Camp Lejeune (N=73), NMC Portsmouth (N=54), and Ft. Belvoir Community Hospital - FBCH (N=51) had the highest number of laboratory-positive influenza cases for the week.

Data sources: HL7-formatted CHCS chemistry and microbiology databases. Denominators for rates are from M2 enrollment records.
Antiviral Surveillance

- **Burden:** Dispensed AVs (N=1,422) are elevated, far exceeding baseline levels. However, the number of dispensed AVs is beginning to trend downward, decreasing 21.5% over the prior week.

- **Severity:** Twenty-four inpatient AVs were dispensed this week to family members (N=13), retirees (N=6), AD service members (N=4), and a recruit (N=1).

- **Types:** AVs dispensed this week were Oseltamivir (N=1,420), and Peramivir (N=2).

- **Location:** NMC Portsmouth (N=205), NH Pensacola (N=178), and NH Jacksonville (N=114) had the highest weekly number of dispensed AVs.

Data sources: HL7-formatted CHCS pharmacy databases. Denominators for rates are from M2 enrollment records.

Top MTFs, Dispensed Antivirals, Week 7

- **Week 7:**
  - NMC Portsmouth: 205
  - NH Pensacola: 178
  - NH Jacksonville: 114
  - NH Camp Lejeune: 92
  - Walter Reed Natl ML Med Ctr: 71
  - Ft Belvoir Community Hosp - Fed: 64
  - NMC San Diego: 58

Top MTFs, Dispensed Antivirals, Season

- **Season:**
  - NH Pensacola: 1916
  - NMC San Diego: 1259
  - NH Jacksonville: 1013
  - NH Camp Lejeune: 739
  - Walter Reed Natl ML Med Ctr: 696
  - NH Camp Pendleton: 304

Note: Season counts are since Week 37.

Influenza-Like Illness (Data Lagged, Week 6)

- **All outpatient:** ILI activity is elevated. The percentage of outpatient medical encounters due to ILI was 5.6% in Week 6.

- **Location:** ILI activity was highest at NHC Annapolis (12.0%), followed by NHC Charleston (9.6%), and NH Beaufort (8.7%).

Data source: CAPER

Top DON MTFs, Percentage of Outpatient ILI, Week 6

- **Week 6:**
  - NHC Annapolis: 12.0%
  - NMC Charleston: 9.6%
  - NH Beaufort: 8.7%
  - NH Naples: 8.5%
  - James A. Lovell PHC: 8.3%
  - NH Corpus Christi: 8.2%

*Data lagged by one week.

DON Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2017-2018 Season

DON Inpatient Dispensed Antivirals (Severity)

Outpatient Medical Encounters due to ILI, Week 6
Active Duty and Recruits

- **AD Laboratory cases**: 83 laboratory-positive cases among AD Sailors (N=54) and Marines (N=29).
- **AD Dispensed Antivirals**: 227 AVs dispensed among AD Sailors (N=173) and Marines (N=54).
- **Recruits**: One laboratory-positive case and six AVs dispensed among recruits.
- **Location**: Laboratory-positive cases occurred most frequently at NHC Quantico (N=9), NH Camp Lejeune (N=8), and NHC New England (N=7).
- **Vaccination Status**: 67 AD laboratory-positive cases (80.7%) had a vaccination record more than fourteen days prior to infection.

Data Sources: HL7-formatted CHCS chemistry, microbiology and pharmacy databases, MRRS and ITS.

### Laboratory-Positive Cases Among Active Duty Service Members, 2017-2018

#### Summary of Active Duty and Recruit Cases

<table>
<thead>
<tr>
<th>Cases</th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 7</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>84</td>
<td>1,091</td>
</tr>
<tr>
<td>Navy AD</td>
<td>54</td>
<td>688</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>29</td>
<td>303</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>0</td>
<td>55</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>1</td>
<td>45</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

Medical Event Reports (MER)

### MERs for Influenza-Associated Hospitalizations

<table>
<thead>
<tr>
<th>Week</th>
<th>N</th>
<th>Match</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>1</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Season</td>
<td>67</td>
<td>56</td>
<td>83.6%</td>
</tr>
</tbody>
</table>

*Indicates MERs that matched to cases from laboratory or pharmacy surveillance data
Note: Season counts are since Week 37.

### Bacterial Coinfections

- **Summary**: 3.4% of laboratory-positive influenza cases had a bacterial coinfection identified this season.
- **Upper-respiratory**: 200 upper respiratory infections have been identified among 186 cases, as *Streptococcus* (N=199) and *Staphylococcus* (N=1).
- **Lower-respiratory**: 28 lower respiratory infections have been identified as *Staphylococcus* (N=10), *Haemophilus* (N=3), *Corynebacterium* (N=2), *Enterococcus* (N=2), *Streptococcus* (N=2), *Stenotrophomonas* (N=2), *Enterobacter* (N=1), *Escherichia* (N=1), *Klebsiella* (N=1), *Neisseria* (N=1), *Pantoena* (N=1), *Pseudomonas* (N=1), and *Serratia* (N=1).

Data Sources: HL7-formatted CHCS chemistry and microbiology databases.

#### Bacterial Coinfections as a Percent of Laboratory Cases

<table>
<thead>
<tr>
<th>Coinfections</th>
<th>Lab Cases w/ Coinfection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper (N)</td>
<td>Lower (N)</td>
</tr>
<tr>
<td>Current Season</td>
<td>186</td>
</tr>
<tr>
<td>Baseline</td>
<td>61</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- CDC released an interim report on vaccine effectiveness for the 2017-18 influenza season. The estimated effectiveness of the 2017–18 seasonal influenza vaccine is 36%. [Details](#)
- CDC’s Advisory Committee on Immunization Practices (ACIP) voted to return FluMist (intranasal vaccine) to the recommended product list for the upcoming 2018-19 influenza season. [Details](#)

Medical Event Reports (MER)

### The Influenza SITREP methods can be found [here](#).

- HL7 formatted CHCS data from microbiology and chemistry data are available from 2004 to present. HL7 formatted CHCS data from pharmacy databases are available from 2006 to present.
- Data from NH Oak Harbor, NH Bremerton, AMC Madigan, and Fairchild AFB are not captured due to transition to MHS GENESIS.
- Laboratory-positive and AV baselines are calculated as a weighted average of the 2014-2015, 2015-2016 and 2016-2017 seasons.
- The “Overall Burden” and ILI figures are lagged one week due to encounter data availability.
- AV surveillance no longer captures Amantadine as of 07 Nov 2017.
- All figures prepared by the EpiData Center on 21 Feb 2018.