**Weekly Highlights:**

- Overall influenza activity in the DON is **normal**. Laboratory-positive cases, dispensed AVs, and the percent of ILI outpatient visits are all **normal**.
- The number of inpatient dispensed antivirals is **normal** and increased over the prior week.
- The number of inpatient laboratory cases is **elevated** and increased over the prior week.
- 70.8% of Laboratory-positive cases were identified as influenza B.

**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</td>
<td>96</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N</td>
<td>166</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>%</td>
<td>3.8</td>
</tr>
</tbody>
</table>

**SEVERITY**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>N</td>
<td>9</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>N</td>
<td>15</td>
</tr>
</tbody>
</table>

**ACTIVE DUTY AND RECRUITS**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>N</td>
<td>14</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>N</td>
<td>29</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>N</td>
<td>3</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>N</td>
<td>2</td>
</tr>
</tbody>
</table>

**Overall Burden (Data Lagged, Week 13)**

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

<table>
<thead>
<tr>
<th>Summary for Week 13</th>
<th>Total Cases</th>
<th>305</th>
</tr>
</thead>
<tbody>
<tr>
<td>% in Lab</td>
<td>37.9</td>
<td></td>
</tr>
<tr>
<td>% in Pharmacy</td>
<td>56.1</td>
<td></td>
</tr>
<tr>
<td>% in Encounters</td>
<td>59.5</td>
<td></td>
</tr>
</tbody>
</table>

**Supporting Surveillance**

- **DOD Global Laboratory-based Influenza Surveillance (AFHSB).**
  - Week 13 highlights:
    - Percentage of positive lab tests are at 11.3% for service members, and 18.3% for other beneficiaries
    - Access the full report [here](#).

- **Operational Infectious Diseases (OID) Weekly Surveillance Report (NHRC).**
  - 05APR2018 report highlights:
    - Adenovirus type 14 continues to be detected in recruits at Parris Island.
    - Access the most recent NHRC OID Surveillance reports [here](#).
DON Laboratory-Positive Influenza Cases and Seasonal Baseline, 2017-2018 Season

DON Laboratory-Positive, Seasonal Comparison, 2012-2018

DON Laboratory-Positive Influenza Specimens, by Type

DON Laboratory-Positive Case Rates by Age Group

Note: Season counts are since Week 37.

Laboratory Surveillance

- **Burden:** Laboratory activity is normal. The number of laboratory-positive cases (N=96) decreased 34.7% over the prior week.
- **Specimens:** Overall percent positivity is 14.4%, with 28.1% of cases identified as influenza A.
- **Severity:** Nine inpatient laboratory-positive cases were identified among retirees (N=6), and family members (N=3). Cases occurred at NMC Portsmouth, NMC San Diego, NH Camp Lejeune and AMC William Beaumont-Bliss.
- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases (N=18). Adults ages 45 and up had the second highest rate (N=32).
- **Location:** NMC Portsmouth (N=16), NMC San Diego (N=12), James A Lovell FHCC (N=11), and NH Camp Lejeune (N=11) 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.

DON Inpatient Laboratory Cases (Severity)

Top MTFs, Laboratory-Positive Cases, Week 14

Top MTFs, Laboratory-Positive Cases, 2017-2018 Season

Prepared by the EpiData Center | email | web
Navy and Marine Corps Public Health Center

NMCPHC-EDC-TR-180-2018
Week 14: Page 2 of 4
Antiviral Surveillance

- **Burden**: Dispensed AVs (N=166) are normal. The number of dispensed AVs decreased 23.5% over the prior week.
- **Severity**: 15 inpatient AVs were dispensed this week to retirees (N=8), and family members (N=7).
- **Types**: All AVs dispensed were Oseltamivir (N=166).
- **Location**: NMC Portsmouth (N=28), James A Lovell (N=15), NMC San Diego (N=14), and WRNMMC (N=14) 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 14**

- NMC Portsmouth: 28
- James A Lovell: 15
- NMC San Diego: 14
- Walter Reed National Military Medical Center: 14
- NH Pensacola: 11
- NH Camp Lejeune: 10
- NH Camp Pendleton: 9

**Top MTFs, Dispensed Antivirals, Season**

- NH Pensacola: 2157
- NMC San Diego: 1368
- NMC Portsmouth: 1153
- NH Jacksonville: 885
- NH Camp Pendleton: 487
- Walter Reed National Military Medical Center: 688
- NH Camp Lejeune: 497

Note: Season counts are since Week 37.

**Influenza-Like Illness (Data Lagged, Week 13)**

- **All outpatient**: ILI activity is normal. The percentage of outpatient medical encounters due to ILI was 3.8% in Week 13.
- **Location**: ILI activity was highest at James A Lovell (7.1%), followed by NH Naples (7.1%), and NH Beaufort (5.6%).

Data source: CAPER

**Outpatient Medical Encounters due to ILI, Week 13**

*Data lagged by one week.*
Active Duty and Recruits

- **AD Laboratory cases:** 14 laboratory-positive cases among AD Sailors (N=13) and Marines (N=1).
- **AD Dispensed Antivirals:** 24 AVs dispensed among AD Sailors and 5 AVs dispensed to Marines.
- **Recruits:** Three laboratory-positive cases and two AVs dispensed among recruits.
- **Location:** Laboratory-positive cases occurred most frequently at James A Lovell FHCC (N=5), NH Pensacola (N=3), NH Camp Lejeune (N=2), NH Camp Pendleton (N=2), and NMC San Diego (N=2).
- **Vaccination Status:** 12 AD laboratory-positive cases (85.7%) had a vaccination record more than fourteen days prior to infection.

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

Bacterial Coinfections

- **Summary:** 3.7% of laboratory-positive influenza cases had a bacterial coinfection identified this season.
- **Upper-respiratory:** 276 upper respiratory infections have been identified as *Streptococcus* (N=271), *Staphylococcus* (N=3), and *Haemophilus* (N=2).
- **Lower-respiratory:** 31 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), *Serratia* (N=2), *Enterobacter* (N=1), *Escherichia* (N=1), *Klebsiella* (N=1), *Neisseria* (N=1), *Pantoea* (N=1), and *Saccharomyces* (N=1).

Data Sources: HL7-formatted CHCS chemistry and microbiology databases

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

**Summary of Active Duty and Recruit Cases**

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 14</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>17</td>
<td>1,327</td>
</tr>
<tr>
<td>Navy AD</td>
<td>13</td>
<td>845</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>1</td>
<td>350</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>2</td>
<td>80</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>1</td>
<td>52</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

**Methods and Data Sources**

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.**
- **ILI threshold is calculated based on the off-season percentage outpatient visits for the 2014-2015, 2015-2016 and 2016-2017 seasons, plus two standard deviations.**
- **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 12 Apr 2018.**

**In the News**

* CDC reports higher influenza B activity than influenza A in Week 13, with widespread flu activity in 11 states. Five new flu-associated pediatric deaths reported this week. [Details](#)
* According to WHO, influenza is declining everywhere in the northern hemisphere except eastern Europe, where counts are still rising. [Details](#)