**Weekly Highlights**

- Overall influenza activity in the DON is **normal** and increasing.
- Laboratory-positive cases and dispensed antivirals are **normal** and increasing over the prior 2 weeks. The percent of outpatient visits for ILI are **elevated**.
- Inpatient activity for both laboratory-positive cases (N=3) and inpatient dispensed antivirals (N=15) is **normal**.

### Influenza Surveillance Indicators

#### Overview

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td>197</td>
<td>▲</td>
<td>Normal</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>234</td>
<td>◯</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>5.4</td>
<td>◯</td>
<td>Elevated</td>
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</table>

#### Severity

<table>
<thead>
<tr>
<th>Indicator</th>
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<th>Activity Level</th>
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</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>3</td>
<td>◯</td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>15</td>
<td>◯</td>
<td>Normal</td>
</tr>
</tbody>
</table>

#### Active Duty and Recruits

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Value</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>46</td>
<td>◯</td>
<td>Normal</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>45</td>
<td>◯</td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>0</td>
<td>◯</td>
<td>Low</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>0</td>
<td>◯</td>
<td>Low</td>
</tr>
</tbody>
</table>

### Overall Burden (Data Lagged, Week 1)

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

**Supporting Surveillance**

**DOD Seasonal Influenza Surveillance Summary (AFHSB)**

Week 1 highlights:

- In NORTHCOM, influenza activity increased. Influenza A/H1N1 specimens continued to be the dominate strain identified.
- Access the full report [here](#).
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=197) are normal and above the seasonal threshold. The trend over the past two weeks has increased; the number of laboratory-positive cases increased from the prior week by 35.9%.
- **Specimens:** Overall percent positivity is 19.0%, with 94.6% of cases identified as influenza A.
- **Severity:** 3 inpatient laboratory-positive cases were identified in sponsors (N=2) and a spouse (N=1).
- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 31 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 10.6 cases per 100,000 persons.
- **Location:** NMC Camp Lejeune (N=51), NMC San Diego (N=23), NH Yokosuka (N=21), and NH Camp Pendleton (N=15) had the highest number of laboratory-positive cases for the week.

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

DON Inpatient Laboratory Cases (Severity)

Top MTFs, Laboratory-Positive Cases, Week 2

Top MTFs, Laboratory-Positive Cases, 2018 - 2019 Season

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=234) are normal and above the seasonal threshold. While the trend over the past two weeks has remained the same; the number of dispensed antivirals has increased from the prior week by 36%.

- **Severity:** 15 inpatient dispensed antivirals were identified in sponsors (N=7), spouses (N=6), and children (N=2).

- **Types:** All dispensed AVs were for oseltamivir.

- **Location:** NMC San Diego (N=32), NMC Camp Lejeune (N=29), NH Yokosuka (N=18), NH Camp Pendleton (N=17), and NMC Portsmouth (N=14) had the highest number of dispensed antivirals for the week.

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

### Top MTFs, Dispensed Antivirals, Week 2

- NMC San Diego (N=32)
- NMC Camp Lejeune (N=29)
- NH Yokosuka (N=18)
- NH Camp Pendleton (N=17)
- NMC Portsmouth (N=14)

### Top MTFs, Dispensed Antivirals, Season 2018 - 2019

- NMC San Diego (N=200)
- NH Pensacola (N=151)
- NMC Camp Lejeune (N=123)
- NH Camp Pendleton (N=115)
- NMC Portsmouth (N=105)
- NH Jacksonville (N=97)
- Walter Reed Natl Mil Med Ctr (N=61)

Data: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 1)

- **All outpatient:** Influenza-like illness (ILI) activity is elevated. The percentage of outpatient medical encounters due to ILI was 5.4% in Week 1, above the surveillance threshold of 4.5%.

- **Note:** ILI activity is used to indicate the burden of ILI on healthcare resources.

Data source: CAPER

### Medical Event Reports (MER)

- **Three MERs** for an influenza-associated hospitalization were reported to DRSI this week. All three had a date of onset during Week 2 and matched to either laboratory or pharmacy surveillance data.

- **Note:** An influenza-associated hospitalization for an individual 65 or younger is a reportable medical event.

Data source: Disease Reporting System-internet

### MERs for Influenza-Associated Hospitalizations

<table>
<thead>
<tr>
<th>MER</th>
<th>Match to Surveillance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
</tr>
<tr>
<td>Week 2</td>
<td>3</td>
</tr>
<tr>
<td>Season</td>
<td>25</td>
</tr>
</tbody>
</table>
DON Active Duty and Recruits

- **AD Laboratory Cases**: 46 laboratory-positive cases were identified among AD Sailors (N=33) and Marines (N=13).
- **AD Dispensed Antivirals**: 45 dispensed antivirals were identified among AD Sailors (N=32) and Marines (N=13).
- **Recruits**: No laboratory-positive cases or dispensed antivirals were identified among recruits.
- **Location (Active Duty)**: Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NH Yokosuka (N=9), NMC San Diego (N=8), NMC Camp Lejeune (N=6), and NH Camp Pendleton (N=3).
- **Location (Recruits)**: No laboratory-positive cases occurred among recruit Sailors or Marines.

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

### Laboratory-Positive Cases Among DON Active Duty Service Members, 2018 - 2019

![Graph showing laboratory-positive cases among DON Active Duty Service Members.](image)

### DON 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 2</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>46</td>
<td>230</td>
</tr>
<tr>
<td>Navy AD</td>
<td>33</td>
<td>133</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>13</td>
<td>86</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- The CDC reports that influenza activity during Week 1 remains elevated. The geographic spread of influenza is widespread in 30 states, with 17 others reporting regional activity. Three pediatric influenza-associated deaths were reported to the CDC. [Details.](#)

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 an average of the 2015-2016, 2016-2017, and 2017-2018 seasons.
- **ILI threshold** is calculated based on the off-season percentage outpatient visits for the 2015-2016, 2016-2017, and 2017-2018 seasons, plus two standard deviations.
- **ILI encounters** are defined as those where an ILI ICD-10-CM code, per AFHSB, is found in any diagnostic position. The ICD-10-CM codes in the AFHSB definition include: B97.89, H66.9, H66.90, H66.91, H66.92, H6693, J00, J01.9, J01.90, J06.9, J09, J09.X, J09.X1, J09.X2, J09.X3, J09.X9, J10, J10.0, J10.00, J10.01, J10.08, J10.1, J10.2, J10.8, J10.81, J10.82, J10.83, J10.89, J11, J11.0, J11.00, J11.08, J11.1, J11.2, J11.8, J11.81, J11.82, J11.83, J11.89, J12.89, J12.9, J12.9, J12.9, J18.1, J18.8, J18.9, J20.9, J40, R05, R50.9
- The “Overall Burden” and ILI figures are lagged one week due to encounter data availability.
- Prepared by the EpiData Center on 15JAN19.