Influenza Situation Report: 2018 - 2019 Season
Department of the Navy

Week 46 (November 11 - November 17, 2018)

Weekly Highlights

- Overall influenza activity in the DON is low.
- Laboratory-positive cases, dispensed antivirals, and the percent of outpatient visits for ILI are low and the trend has remained the same over the prior two weeks.
- Inpatient activity for both laboratory-positive cases (N=0) and inpatient dispensed antivirals (N=4) is low.

Influenza Surveillance Indicators

### Overall Burden (Data Lagged, Week 45)

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

Supporting Surveillance

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

Week 45 highlights:
- Activity was low, and there were no reported hospitalizations for influenza.
- Access the full report here.
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=31) are low and below the seasonal threshold. While the trend over the past two weeks has remained the same, the number of laboratory-positive cases has decreased from the prior week by 26.2%.

- **Specimens:** Overall percent positivity is 6.1%, with 77.1% of cases identified as influenza A.

- **Severity:** No inpatient laboratory-positive cases were identified.

- **Age:** children ages 0-4 had the highest rate of laboratory-positive influenza cases at 3.2 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 2.7 cases per 100,000 persons.

- **Location:** NMC Camp Lejeune (N=9), NH Jacksonville (N=3), and NH Camp Pendleton (N=3) 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 Laboratory-Positive Influenza Cases and Seasonal Baseline, 2018 - 2019 Season

### DON Laboratory-Positive Cases, Seasonal Comparison, 2013-2018

### DON Laboratory-Positive Influenza Specimens, by Type

### DON Laboratory-Positive Case Rates by Age Group

---

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

NMCPHC-EDC-TR-534-2018
Week 46: Page 2 of 4
• **Burden:** Dispensed antivirals (N=63) are low and below 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 31.3%.

• **Severity:** 4 inpatient dispensed antivirals were identified in sponsors (N=2) and spouses (N=2).

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

• **Location:** NH Pensacola (N=10), Ft Belvoir Community Hosp-FBCH (N=6), NMC San Diego (N=6), and NMC Camp Lejeune (N=4) had the highest number of dispensed antivirals for the week.

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

---

**DON Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2018 - 2019 Season**

**DON Inpatient Dispensed Antivirals (Severity)**

**Top MTFs, Dispensed Antivirals, Week 46**

- NH Pensacola: 10
- Ft Belvoir Community Hosp-FBCH: 6
- NMC San Diego: 5
- NMC Camp Lejeune: 4
- AMC IRLAND-KNOX: 3
- AMC BANCS FISH: 3
- AMC TRIPLEN SHAFER: 3

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

- NH Pensacola: 41
- NMC Camp Lejeune: 37
- NH Jackson Valley: 36
- AMC San Diego: 36
- AMC Tripler-Shafter: 20
- NMC Portsmouth: 18

**Influenza-Like Illness (Data Lagged, Week 45)**

• **All outpatient:** Influenza-like illness (ILI) activity is low. The percentage of outpatient medical encounters due to ILI was 2.7% in Week 45, below the surveillance threshold of 4.5%.

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

Data source: CAPER

**Outpatient Medical Encounters due to ILI, Week 45**

**Medical Event Reports (MER)**

• 3 MERs for an influenza-associated hospitalization were reported to DRSi this week. All 3 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>N</td>
<td>N</td>
</tr>
<tr>
<td>Week 46</td>
<td>3</td>
</tr>
<tr>
<td>Season</td>
<td>5</td>
</tr>
</tbody>
</table>
**DON Active Duty and Recruits**

- **AD Laboratory Cases:** 5 laboratory-positive cases were identified among AD Sailors (N=3) and Marines (N=2).
- **AD Dispensed Antivirals:** 13 dispensed antivirals were identified among AD Sailors (N=9) and Marines (N=4).
- **Recruits:** 1 dispensed antiviral was identified among recruits. No laboratory-positive cases were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NHC Hawaii (N=2), AMC Tripler-Shafter (N=1), NH Naples (N=1), and NMC Camp Lejeune (N=1).
- **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, 2018 - 2019]

### 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 46</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>5</td>
<td>52</td>
</tr>
<tr>
<td>Navy AD</td>
<td>3</td>
<td>23</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>2</td>
<td>27</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

- The CDC continues to report low influenza activity, but activity is expected to increase over the next month. [Details.](#)
- A phase 2 trial for a new influenza antiviral, a polymerase inhibitor, showed promising results in early stages. [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, J11.12, J11.16, J11.8, J11.81, J11.82, J11.83, J11.89, J12.89, J12.9, J18, 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 20NOV18.