Influenza Situation Report: 2019 - 2020 Season
Department of the Navy

Week 5 (January 26 - February 1, 2020)

Weekly Highlights

- Overall influenza activity in the DON is normal.
- Laboratory-positive cases and dispensed antivirals are normal and the trend has increased over the prior 2 weeks. The percent of outpatient visits for ILI are elevated and the trend has remained the same over the prior 2 weeks.
- Inpatient activity for both laboratory-positive cases (N=4) and inpatient dispensed antivirals (N=16) is normal.
- Active Duty and Recruit laboratory positive cases and dispensed antivirals are elevated.

Influenza Surveillance Indicators

### Overview

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Cases</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td>N 691</td>
<td>▲</td>
<td>Normal</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 912</td>
<td>▲</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 4.2</td>
<td>▼▼</td>
<td>Elevated</td>
</tr>
</tbody>
</table>

### Severity

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Cases</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>N 4</td>
<td>▼▼</td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>N 16</td>
<td>▼▼</td>
<td>Normal</td>
</tr>
</tbody>
</table>

### Active Duty and Recruits

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Cases</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>N 182</td>
<td>▲</td>
<td>Elevated</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>N 220</td>
<td>▼▼</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>N 27</td>
<td>▼▼</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>N 7</td>
<td>▼▼</td>
<td>Elevated</td>
</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 4)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB) Week 4 highlights:

- Influenza B continued to predominate in NORTHCOM
- Access the full report [here](#).

Data from NH Oak Harbor, NH Bremerton, NHC Lemoore, AMC Madigan, AHC Monterey, AHC Fairchild, Mountain Home AFH, and Travis AFB are not captured due to the transition to MHS GENESIS.
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=691) 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 25.4%.

- **Specimens:** Overall percent positivity is 30.6%, with 62.8% of cases identified as influenza A.

- **Severity:** 4 inpatient laboratory-positive cases were identified in spouses (N=3), and a child (N=1).

- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 56.4 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 55.5 cases per 100,000 persons.

- **Location:** NH Jacksonville (N=61), NMC San Diego (N=59), NMC Camp Lejeune (N=46), NH Pensacola (N=46), and James A Lovell FHCC (N=42) 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.

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DON Laboratory-Positive Influenza Cases and Seasonal Baseline, 2019 - 2020 Season

DON Laboratory-Positive Cases, Seasonal Comparison, 2014-2019

DON Laboratory-Positive Influenza Specimens, by Type

DON Laboratory-Positive Case Rates by Age Group

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=912) are normal and above the seasonal threshold. The trend over the past two weeks has increased. The number of dispensed antivirals increased from the prior week by 29.4%.
- **Severity:** 16 inpatient dispensed antivirals were identified in spouses (N=8), sponsors (N=7), and a child (N=1).
- **Types:** Dispensed AVs consisted of 1 baloxavir and 911 oseltamivir.
- **Location:** NH Pensacola (N=105), NMC San Diego (N=73), NMC Portsmouth (N=71), NH Jacksonville (N=69), and Walter Reed Natl Mil Med Cntr (N=45) had the highest number of dispensed antivirals for the week.

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

Top MTFs, Dispensed Antivirals, Week 5

Top MTFs, Dispensed Antivirals, 2019 - 2020 Season

Influenza-Like Illness (Data Lagged, Week 4)

- **All outpatient:** Influenza-like illness (ILI) activity is elevated. The percentage of outpatient medical encounters due to ILI was 4.2% in Week 4, above the surveillance threshold of 4.1%.
- **Note:** ILI activity is used to indicate the burden of ILI on healthcare resources.

Data source: CAPER

Outpatient Medical Encounters due to ILI, Week 4

Outpatient Antiviral Prophylaxis

- **Treatment:** The majority (89.2%) of antiviral prescriptions in Week 5 were for treatment of influenza or influenza symptoms.
- **Prophylaxis:** 10.8% (N=97) of antiviral prescriptions in Week 5 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

Outpatient Antiviral Prophylaxis Prescriptions

Prepared by the EpiData Center | email | web
Navy and Marine Corps Public Health Center
DON Active Duty and Recruits

- **AD Laboratory Cases**: 182 laboratory-positive cases were identified among AD Sailors (N=124) and Marines (N=58).
- **AD Dispensed Antivirals**: 220 dispensed antivirals were identified among AD Sailors (N=163) and Marines (N=57).
- **Recruits**: 27 laboratory-positive cases and 7 dispensed antivirals were identified among recruits.
- **Location (Active Duty)**: Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NH Jacksonville (N=20), NMC San Diego (N=18), NHC Quantico (N=16), NHC Cherry Point (N=12), and NH Pensacola (N=12).
- **Location (Recruits)**: Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at James A Lovell FHCC (N=17), NH Beaufort (N=6), NH Camp Pendleton (N=2), NMC San Diego (N=1), and NH Twentynine Palms (N=1).
- **Vaccination Status**: 162 AD laboratory-positive cases (89.0%) 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 DON Active Duty Service Members, 2019 - 2020 Season

![Graph showing laboratory-positive cases per week among DON Active Duty Service Members.]

<table>
<thead>
<tr>
<th>Week 5</th>
<th>Season</th>
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</thead>
<tbody>
<tr>
<td>Navy AD</td>
<td>124</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>58</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>18</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>9</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

- Pneumonia and influenza mortality has been low, but 68 influenza-associated deaths in children have been reported so far this season. [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, Bremerton, and Lemoore; AMC Madigan and AHC Monterey; and Fairchild, Mt. Home and Travis AFB are not captured due to transition to MHS GENESIS.
- 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, J10.01, J10.0, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01, J10.01.
- The “Overall Burden” and ILI figures are lagged one week due to encounter data availability.
- Prepared by the EpiData Center on 04FEB20.