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

Week 47 (November 17 - November 23, 2019)

Weekly Highlights

- Overall influenza activity in the DON is normal.
- Laboratory-positive cases, dispensed antivirals, and the percent of outpatient visits for ILI are normal and the trend has remained the same over the prior two weeks.
- Inpatient activity for laboratory-positive cases (N=2) is normal, while inpatient activity for dispensed antivirals is (N=6) is low.
- Laboratory cases and dispensed antivirals are elevated among active duty and recruits.

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></td>
<td>Normal</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Laboratory Cases</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td></td>
<td>Low</td>
</tr>
</tbody>
</table>

Active Duty and Recruits

- Active Duty Laboratory Cases: Elevated
- Active Duty Dispensed Antivirals: Normal
- Recruit Laboratory Cases: Elevated
- Recruit Dispensed Antivirals: Elevated

Overall Burden (Data Lagged, Week 46)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)

- Majority of laboratory confirmed influenza cases were type B and there were three new hospitalizations.
- Access the full report here.

Data from NH Oak Harbor, NH Bremerton, NHC Lamoore, 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=194) are normal and above the seasonal threshold. While the trend over the past two weeks has remained the same, the number of laboratory-positive cases has increased from the prior week by 50.4%.

- **Specimens:** Overall percent positivity is 16.9%, with 23.2% of cases identified as influenza A.

- **Severity:** 2 inpatient laboratory-positive cases were identified in sponsor (N=1), spouse (N=1).

- **Age:** Children ages 5-17 had the highest rate of laboratory-positive influenza cases at 18.8 cases per 100,000 persons, while children ages 0-4 had the second highest rate at 16.2 cases per 100,000 persons.

- **Location:** NH Pensacola (N=30), James A Lovell FHCC (N=27), NH Jacksonville (N=20), AF-Mc-81st Medgrp-Keesler (N=18), and NH Twentynine Palms (N=17) 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 Cases, Seasonal Comparison, 2014-2019

DON Laboratory-Positive Specimens, by Type

DON Laboratory-Positive Case Rates by Age Group

Note: Season counts are since Week 37.
**Antiviral Surveillance**

- **Burden:** Dispensed antivirals (N=215) 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 40.5%.

- **Severity:** 6 inpatient dispensed antivirals were identified in sponsors (N=3), children (N=2), and a spouse (N=1).

- There were 2 baloxivir and 1 zanamivir dispensed AVs, all other dispensed antivirals were oseltamivir.

- **Location:** NH Pensacola (N=52), NH Jacksonville (N=26), NMC Portsmouth (N=16), and NH Twentynine Palms (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 47

- **NH Pensacola:** 52
- **NH Jacksonville:** 26
- **NMC Portsmouth:** 18
- **NH Twentynine Palms:** 14
- **James A. Lovell FHCC:** 11
- **NMC San Diego:** 11

### Top MTFs, Dispensed Antivirals, 2019 - 2020 Season

- **NH Pensacola:** 228
- **James A. Lovell FHCC:** 106
- **NH Jacksonville:** 104
- **NMC Camp Lejeune:** 77
- **NMC Portsmouth:** 64
- **NMC San Diego:** 60
- **NH Guantanamo Bay:** 31

Note: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 46)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.3% in Week 46, below 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 46

Data source: CAPER

### DON Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2019 - 2020 Season

### DON Inpatient Dispensed Antivirals (Severity)

### Outpatient Antiviral Prophylaxis

- **Treatment:** The majority (85.2%) of antiviral prescriptions in Week 47 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 14.8% (N=31) of antiviral prescriptions in Week 47 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

### Outpatient Antiviral Prophylaxis Prescriptions
DON Active Duty and Recruits

- **AD Laboratory Cases**: 58 laboratory-positive cases were identified among AD Sailors (N=41) and Marines (N=17).
- **AD Dispensed Antivirals**: 49 dispensed antivirals were identified among AD Sailors (N=36) and Marines (N=13).
- **Recruits**: 10 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 James A Lovell FHCC (N=17), NH Twentynine Palms (N=7), NMC Portsmouth (N=6), NH Pensacola (N=6), and NMC Camp Lejeune (N=5).
- **Location (Recruits)**: Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at James A Lovell FHCC (N=7), NH Camp Pendleton (N=1), NH Beaufort (N=1), and NH Twentynine Palms (N=1).
- **Vaccination Status**: 16 AD laboratory-positive cases (27.6%) 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

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Week 47</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>68</td>
<td>382</td>
</tr>
<tr>
<td>Navy AD</td>
<td>41</td>
<td>176</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>17</td>
<td>64</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>7</td>
<td>127</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>3</td>
<td>15</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- For the 2019-2020 influenza season, the CDC has reported a total of four influenza associated pediatric deaths so far. Details.
- Even though influenza activity varies across the country, ILI activity has been above baseline for two weeks nationally. 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, J10.08, 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, 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 26NOV19.