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

Week 49 (December 1 - December 7, 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 both laboratory-positive case (N=1) and inpatient dispensed antiviral (N=1) is low.
- Laboratory cases and dispensed antivirals are elevated in both active duty and recruits.

Influenza Surveillance Indicators

<table>
<thead>
<tr>
<th>Overview</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N</td>
<td>205</td>
<td></td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N</td>
<td>261</td>
<td></td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>%</td>
<td>3.8</td>
<td></td>
</tr>
</tbody>
</table>

Severity

| Inpatient Laboratory Cases            |       | Low            |
| N                                      | 1     |                |
| Inpatient Dispensed Antivirals        |       | Low            |
| N                                      | 1     |                |

Active Duty and Recruits

| Active Duty Laboratory Cases          |       | Elevated       |
| N                                      | 68    |                |
| Active Duty Dispensed Antivirals      |       | Elevated       |
| N                                      | 70    |                |
| Recruit Laboratory Cases             |       | Elevated       |
| N                                      | 4     |                |
| Recruit Dispensed Antivirals          |       | Elevated       |
| N                                      | 3     |                |

Overall Burden (Data Lagged, Week 48)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)
Week 48 highlights:

- The majority of laboratory-confirmed influenza cases continued to be type B.
- There was one new laboratory-confirmed influenza hospitalization reported.
- Access the full report [here](https://example.com).

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.
Burden: Laboratory-positive influenza cases (N=205) 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 50.7%.

Specimens: Overall percent positivity is 16.2%, with 32.5% of cases identified as influenza A.

Severity: One inpatient laboratory-positive case was identified in a child (N=1).

Age: Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 18.1 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 14.9 cases per 100,000 persons.

Location: NH Twentynine Palms (N=27), NH Jacksonville (N=24), NMC Camp Lejeune (N=23), NH Camp Pendleton (N=20), and NMC Portsmouth (N=18) 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.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=261) 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 38.1%.
- **Severity:** One inpatient dispensed antivirals case was identified in a child (N=1).
- **Types:** All dispensed AVs were for oseltamivir.
- **Location:** NMC Portsmouth (N=40), NH Jacksonville (N=33), NH Pensacola (N=28), NH Twentynine Palms (N=23), and NMC San Diego (N=15) had the highest number of dispensed antivirals for the week.

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

![Top MTFs, Dispensed Antivirals, Week 49](image)

![Top MTFs, Dispensed Antivirals, 2019 - 2020 Season](image)

Influenza-Like Illness (Data Lagged, Week 48)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.8% in Week 48, 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 48

Outpatient Antiviral Prophylaxis

- **Treatment:** The majority (90.0%) of antiviral prescriptions in Week 49 were for treatment of influenza or influenza symptoms.
- **Prophylaxis:** 10.0% (N=26) of antiviral prescriptions in Week 49 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases
DON Active Duty and Recruits

- **AD Laboratory Cases:** 68 laboratory-positive cases were identified among AD Sailors (N=32) and Marines (N=36).
- **AD Dispensed Antivirals:** 70 dispensed antivirals were identified among AD Sailors (N=45) and Marines (N=25).
- **Recruits:** 4 laboratory-positive cases and 3 dispensed antivirals were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NH Twentynine Palms (N=12), NMC Camp Lejeune (N=10), NH Camp Pendleton (N=8), NH Okinawa (N=5), and NH Jacksonville (N=5).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Camp Pendleton (N=4).
- **Vaccination Status:** 46 AD laboratory-positive cases (67.6%) 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

DON Active Duty and Recruit Cases

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Cases</strong></td>
<td>72</td>
<td>496</td>
</tr>
<tr>
<td><strong>Navy AD</strong></td>
<td>32</td>
<td>221</td>
</tr>
<tr>
<td><strong>Marine Corps AD</strong></td>
<td>36</td>
<td>122</td>
</tr>
<tr>
<td><strong>Navy Recruit</strong></td>
<td>0</td>
<td>133</td>
</tr>
<tr>
<td><strong>Marine Corps Recruit</strong></td>
<td>4</td>
<td>20</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- Flu activity has been elevated since the start of November and is expected to continue climbing. 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 10DEC19.