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

Week 8 (February 16 - February 22, 2020)

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 decreased over the prior two weeks.
- Inpatient activity for both laboratory-positive cases (N=8) and inpatient dispensed antivirals (N=28) is **normal**.
- Active duty and recruit laboratory positive cases and dispensed antivirals are **elevated**.

Active Duty Vaccination Rates, 23 FEB 2020

<table>
<thead>
<tr>
<th>Component</th>
<th>2019 - 2020</th>
<th>DON Goal = 90% (by 15 Dec 2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Fleet Forces</td>
<td></td>
<td>97.2%</td>
</tr>
<tr>
<td>Navy Active Duty</td>
<td></td>
<td>93.8%</td>
</tr>
<tr>
<td>Marine Corps Active Duty</td>
<td></td>
<td>94.9%</td>
</tr>
</tbody>
</table>

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

Influenza Surveillance Indicators

### Overview

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Count</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td>N 457</td>
<td>▼</td>
<td>Normal</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 715</td>
<td>▼</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 4.1</td>
<td>◄►</td>
<td>Normal</td>
</tr>
</tbody>
</table>

### Severity

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Count</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>N 8</td>
<td>◄►</td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>N 28</td>
<td>◄►</td>
<td>Normal</td>
</tr>
</tbody>
</table>

### Active Duty and Recruits

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Count</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>N 124</td>
<td>▼</td>
<td>Elevated</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>N 196</td>
<td>◄►</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>N 14</td>
<td>▼</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>N 8</td>
<td>◄►</td>
<td>Elevated</td>
</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 7)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)

Week 7 highlights:

- ILI activity remained high. Influenza A and B each accounted for roughly half of the positive specimens. Among subtyped influenza A specimens, A(H1N1) has predominated.
- 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=457) are normal and above the seasonal threshold. The trend over the past two weeks has decreased. The number of laboratory-positive cases decreased from the prior week by 34.7%.
- **Specimens:** Overall percent positivity is 25.8%, with 71.3% of cases identified as influenza A.
- **Severity:** 8 inpatient laboratory-positive cases were identified in children (N=5), spouses (N=2), and sponsor (N=1).
- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 36.9 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 32.6 cases per 100,000 persons.
- **Location:** NH Camp Pendleton (N=44), NMC San Diego (N=41), NMC Camp Lejeune (N=41), NH Jacksonville (N=33), and James A Lovell FHCC (N=26) 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=715) are normal and above the seasonal threshold. The trend over the past two weeks has decreased. The number of dispensed antivirals decreased from the prior week by 29.6%.
- **Severity:** 28 inpatient dispensed antivirals were identified in sponsors (N=13), children (N=8), and spouses (N=7).
- **Types:** Dispensed AVs consisted of 2 baloxavir and 713 oseltamivir.
- **Location:** NMC Portsmouth (N=102), NMC San Diego (N=73), NH Pensacola (N=54), NH Camp Pendleton (N=50), and NMC Camp Lejeune (N=40) had the highest number of dispensed antivirals for the week.

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

### Top MTFs, Dispensed Antivirals, Week 8

- NMC PORTSMOUTH: 102
- NMC SAN DIEGO: 73
- NH PENSACOLA: 54
- NH CAMP PENDLETON: 50
- NMC CAMP LEJEUNE: 40
- NH JACKSONVILLE: 39
- WALTER REED NATL MIL MED CNTR: 32

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

- NH PENSACOLA: 950
- NMC PORTSMOUTH: 943
- NMC SAN DIEGO: 665
- NH JACKSONVILLE: 999
- NH CAMP PENDLETON: 479
- NMC CAMP LEJEUNE: 418
- JAMES A LOVELL PHCC: 301

Data: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 7)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 4.1% in Week 7, comparable to the surveillance threshold of 4.1%.
- **Note:** ILI activity is used to indicate the burden of ILI on healthcare resources.

Data source: CAPER

### Outpatient Antiviral Prophylaxis

- **Treatment:** The majority (90.7%) of antiviral prescriptions in Week 8 were for treatment of influenza or influenza symptoms.
- **Prophylaxis:** 9.3% (N=64) of antiviral prescriptions in Week 8 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

### Outpatient Medical Encounters due to ILI, Week 7

Data: Season counts are since Week 37.

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

- **AD Laboratory Cases:** 124 laboratory-positive cases were identified among AD Sailors (N=80) and Marines (N=44).
- **AD Dispensed Antivirals:** 196 dispensed antivirals were identified among AD Sailors (N=157) and Marines (N=39).
- **Recruits:** 14 laboratory-positive cases and 8 dispensed antivirals were identified among recruits.

**Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NH Camp Pendleton (N=12), NH Jacksonville (N=11), NHC Quantico (N=9), and NMC San Diego (N=9).

**Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=8), NH Camp Pendleton (N=3), James A Lovell FHCC (N=2), and NMC San Diego (N=1).

**Vaccination Status:** 111 AD laboratory-positive cases (89.5%) 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 8</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>138</td>
<td>2,101</td>
</tr>
<tr>
<td>Navy AD</td>
<td>80</td>
<td>1,160</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>44</td>
<td>611</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>3</td>
<td>194</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>11</td>
<td>136</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- After a month-long rise, the Centers for Disease Control and Prevention (CDC) is reporting a drop in US flu levels during week 7. [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 26FEB20.