Weekly Highlights

- Overall influenza activity in the DON is normal.
- Laboratory-positive cases and dispensed antivirals are normal and the trend has decreased over the prior 2 weeks. The percent of outpatient visits for ILI are elevated and the trend has increased over the prior 2 weeks.
- Inpatient activity for both laboratory-positive cases (N=3) and inpatient dispensed antivirals (N=28) is normal.
- Active duty laboratory cases and dispensed antivirals are elevated.

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>Dispensed Antivirals</td>
<td>▼</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>▲</td>
<td>Elevated</td>
</tr>
</tbody>
</table>

Severity

- Inpatient Laboratory Cases N 3 ▼ ▼ Normal
- Inpatient Dispensed Antivirals N 28 ▼ ▼ Normal

Active Duty and Recruits

- Active Duty Laboratory Cases N 88 ▼ ▼ Elevated
- Active Duty Dispensed Antivirals N 100 ▼ ▼ Elevated
- Recruit Laboratory Cases N 4 ▼ Normal
- Recruit Dispensed Antivirals N 4 ▼ ▼ Normal

Overall Burden (Data Lagged, Week 52)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)

Week 51 highlights:
- Majority of laboratory-confirmed influenza cases continued to be type B.
- Overall laboratory-confirmed influenza cases continued to increase.
- 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.
• **Burden:** Laboratory-positive influenza cases (N=315) 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 12.3%.

• **Specimens:** Overall percent positivity is 25.7%, with 47.8% of cases identified as influenza A.

• **Severity:** 3 inpatient laboratory-positive cases were identified in sponsors (N=2) and child (N=1).

• **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 40.8 cases per 100,000 persons, while adults ages 18-44 had the second highest rate at 14.9 cases per 100,000 persons.

• **Location:** NH Camp Pendleton (N=43), NMC San Diego (N=34), NH Jacksonville (N=33), Walter Reed Natl Mil Med Cntr (N=31), and NH Pensacola (N=28) 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=437) 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 9%.

- **Severity:** 28 inpatient dispensed antivirals were identified in sponsors (N=14), spouses (N=9), and children (N=5).

- **Types:** Dispensed AVs consisted of 1 baloxavir and 436 oseltamivir.

- **Location:** NMC Portsmouth (N=58), NH Pensacola (N=53), NMC San Diego (N=50), NH Jacksonville (N=34), and Walter Reed Natl Mil Med Cntr (N=33) had the highest number of dispensed antivirals for the week.

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

Top MTFs, Dispensed Antivirals, Week 1

- NMC Portsmouth: 58
- NH Pensacola: 53
- NMC San Diego: 50
- NH Jacksonville: 34
- Walter Reed Natl Mil Med Cntr: 33
- NH Camp Pendleton: 25
- AMC Tripler-Shafer: 16

Top MTFs, Dispensed Antivirals, 2019 - 2020 Season

- NH Pensacola: 496
- NMC Portsmouth: 321
- NH Jacksonville: 288
- NMC San Diego: 171
- NMC Camp Lejeune: 145
- NH Camp Pendleton: 143
- James A Lovell PHCC: 140

Note: Season counts are since Week 37.

Influenza-Like Illness (Data Lagged, Week 52)

- **All outpatient:** Influenza-like illness (ILI) activity is elevated. The percentage of outpatient medical encounters due to ILI was 6.4% in Week 52, 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 52

Outpatient Antiviral Prophylaxis

- **Treatment:** The majority (87.4%) of antiviral prescriptions in Week 1 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 12.6% (N=52) of antiviral prescriptions in Week 1 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:** 88 laboratory-positive cases were identified among AD Sailors (N=67) and Marines (N=21).
- **AD Dispensed Antivirals:** 100 dispensed antivirals were identified among AD Sailors (N=78) and Marines (N=22).
- **Recruits:** 4 laboratory-positive cases and 4 dispensed antivirals were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NH Pensacola (N=13), NH Camp Pendleton (N=13), Walter Reed Natl Mil Med Cntr (N=13), NH Jacksonville (N=10), and NMC San Diego (N=10).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=3) and NMC San Diego (N=1).
- **Vaccination Status:** 74 AD laboratory-positive cases (84.1%) 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-positivity rate per 100,000 for Navy and Marine Corps, with a Marine Corps baseline line]

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>92</td>
<td>104</td>
</tr>
<tr>
<td><strong>Navy AD</strong></td>
<td>67</td>
<td>78</td>
</tr>
<tr>
<td><strong>Marine Corps AD</strong></td>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td><strong>Navy Recruit</strong></td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td><strong>Marine Corps Recruit</strong></td>
<td>4</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- Influenza activity in the United States has been elevated for eight weeks and continues to increase. There has been an estimated 6.4 million influenza illnesses in the United States. 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 07JAN20.