Weekly Highlights

- Overall influenza activity in the DON is normal.
- Laboratory-positive cases and the percent of outpatient visits for ILI are normal. Dispensed antivirals are elevated and the trend has decreased over the prior two weeks.
- Inpatient activity for both laboratory-positive cases (N=2) and inpatient dispensed antivirals (N=15) is normal.
- Influenza A continues to be the dominant flu type for the latter part of the season.

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 403</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td>Elevated</td>
</tr>
<tr>
<td>N 568</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>% 4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Severity

- Inpatient Laboratory Cases: N=2, Normal
- Inpatient Dispensed Antivirals: N=15, Normal

Active Duty and Recruits

- Active Duty Laboratory Cases: N=142, Elevated
- Active Duty Dispensed Antivirals: N=190, Elevated
- Recruit Laboratory Cases: N=16, Elevated
- Recruit Dispensed Antivirals: N=4, Normal

Overall Burden (Data Lagged, Week 10)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)

Week 10 highlights:
- Four new hospitalizations were reported in Week 10.
- ILI activity remained high in all regions in Week 10.
- 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=403) 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 21%.

- **Specimens:** Overall percent positivity is 17.4%, with 69.9% of cases identified as influenza A.

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

- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 29.8 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 26 cases per 100,000 persons.

- **Location:** NMC Camp Lejeune (N=78), NMC Portsmouth (N=32), James A Lovell FHCC (N=22), NMC San Diego (N=22), and NH Beaufort (N=19) 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 Inpatient Laboratory Cases (Severity)

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

DON Laboratory-Positive Cases, Seasonal Comparison, 2014-2020

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=568) are elevated 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 8.7%.

- **Severity:** 15 inpatient dispensed antivirals were identified in spouses (N=6), children (N=6), and sponsors (N=3).

- **Types:** Dispensed AVs consisted of 4 baloxavir and 564 oseltamivir.

- **Location:** NMC Portsmouth (N=106), NH Pensacola (N=65), NMC Camp Lejeune (N=43), Walter Reed Natl Mil Med Ctr (N=42), and NH Jacksonville (N=27) had the highest number of dispensed antivirals for the week.

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

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### Top MTFs, Dispensed Antivirals, Week 11

<table>
<thead>
<tr>
<th>MTF</th>
<th>Dispensed Antivirals</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMC PORTSMOUTH</td>
<td>106</td>
</tr>
<tr>
<td>NH PENSACOLA</td>
<td>65</td>
</tr>
<tr>
<td>NMC CAMP LEJEUNE</td>
<td>43</td>
</tr>
<tr>
<td>WALTER REED NATL MIL MED CNTR</td>
<td>42</td>
</tr>
<tr>
<td>NH JACKSONVILLE</td>
<td>27</td>
</tr>
<tr>
<td>NH CAMP PENDLETON</td>
<td>23</td>
</tr>
<tr>
<td>NMC SAN DIEGO</td>
<td>21</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>MTF</th>
<th>Dispensed Antivirals</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMC PORTSMOUTH</td>
<td>1249</td>
</tr>
<tr>
<td>NH PENSACOLA</td>
<td>962</td>
</tr>
<tr>
<td>NMC SAN DIEGO</td>
<td>776</td>
</tr>
<tr>
<td>NH JACKSONVILLE</td>
<td>537</td>
</tr>
<tr>
<td>NMC CAMP LEJEUNE</td>
<td>539</td>
</tr>
<tr>
<td>NHC CAMP PENDLETON</td>
<td>466</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 10)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 4% in Week 10, 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 Antiviral Prophylaxis

- **Treatment:** The majority (87.4%) of antiviral prescriptions in Week 11 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 12.6% (N=69) of antiviral prescriptions in Week 11 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

### Outpatient Medical Encounters due to ILI, Week 10

Data source: CAPER

### Outpatient Antiviral Prophylaxis Prescriptions

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

- **AD Laboratory Cases:** 142 laboratory-positive cases were identified among AD Sailors (N=75) and Marines (N=67).
- **AD Dispensed Antivirals:** 190 dispensed antivirals were identified among AD Sailors (N=138) and Marines (N=52).
- **Recruits:** 16 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 NMC Camp Lejeune (N=26), NMC Portsmouth (N=12), James A Lovell FHCC (N=10), NHC Cherry Point (N=10), and NMC San Diego (N=9).

**Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=10), James A Lovell FHCC (N=3), NH Camp Pendleton (N=1), NMC San Diego (N=1), and NHC Charleston (N=1).

**Vaccination Status:** 125 AD laboratory-positive cases (88.0%) 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

In the News

- Flu activity remains elevated in the United States, and more than 174.5 million doses of vaccine have been distributed thus far. [Details.](#)
- CDC reports on an ill patient with an influenza A and SARS-CoV-2 co-infection in China. [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 17MAR20.