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 cases (N=9) and inpatient dispensed antivirals (N=28) is normal.
- Half of laboratory-positive influenza cases were identified as influenza B.

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>
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<tr>
<td>ILI Outpatient Visits</td>
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<table>
<thead>
<tr>
<th>Severity</th>
<th></th>
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<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td></td>
<td>Normal</td>
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<tr>
<td>Inpatient Dispensed Antivirals</td>
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<td>Normal</td>
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</tbody>
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<thead>
<tr>
<th>Active Duty and Recruits</th>
<th></th>
<th>Normal</th>
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</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 51)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

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=308) 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 decreased from the prior week by 23%.

**Specimens:** Overall percent positivity is 29.5%, with 50.0% of cases identified as influenza B.

**Severity:** 9 inpatient laboratory-positive cases were identified in sponsor (N=5), child (N=3), spouse (N=1).

**Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 37.6 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 27.9 cases per 100,000 persons.

**Location:** NH Jacksonville (N=36), AMC BAMC-FSH (N=32), NMC San Diego (N=29), and Ft Belvoir Community Hosp-FBCH(N=23) 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)**

**Top MTFs, Laboratory-Positive Cases, Week 52**

NH JACKSONVILLE: 36
AMC BAMC-FSH: 29
NMC SAN DIEGO: 23
FT BELVOIR COMMUNITY HOSPITAL: 19
WALTER REED NATIONAL MILITARY MEDICAL CENTER: 19

**Top MTFs, Laboratory-Positive Cases, 2019 - 2020 Season**

NH JACKSONVILLE: 259
JAMES A LOVELL FHC: 217
NMC CAMP LEJEUNE: 217
NH CAMP PENDLETON: 181
NH PENSACOLA: 171
NH TWENTY NINE PALMS: 167
NMC SAN DIEGO: 134

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=428) 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 decreased from the prior week by 19.9%.

- **Severity:** 28 inpatient dispensed antivirals were identified in sponsor (N=13), child (N=9), spouse (N=6).

- **Types:** All dispensed AVs were for oseltamivir.

- **Location:** NMC Portsmouth (N=50), NMC San Diego (N=43), NH Pensacola (N=39), NH Jacksonville (N=38), and Walter Reed Natl Mil Med Cntr (N=36) had the highest number of dispensed antivirals for the week.

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

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### Influenza-Like Illness (Data Lagged, Week 51)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 4% in Week 51, below the surveillance threshold of 4.1%.

- **Note:** ILI activity is used to indicate the burden of ILI on healthcare resources.

Data source: CAPER

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### Outpatient Medical Encounters due to ILI, Week 51

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### Outpatient Antiviral Prophylaxis Prescriptions

- **Treatment:** The majority (90.5%) of antiviral prescriptions in Week 52 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 9.5% (N=38) of antiviral prescriptions in Week 52 were for prevention of influenza or influenza symptoms.

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

- **AD Laboratory Cases:** 39 laboratory-positive cases were identified among AD Sailors (N=23) and Marines (N=16).
- **AD Dispensed Antivirals:** 51 dispensed antivirals were identified among AD Sailors (N=42) and Marines (N=9).
- **Recruits:** 5 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 NMC San Diego (N=5), and NH Jacksonville (N=5).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=4), and NMC San Diego (N=1).
- **Vaccination Status:** 30 AD laboratory-positive cases (76.9%) 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></td>
<td>Week 52</td>
<td>Season</td>
</tr>
<tr>
<td><strong>Total Cases</strong></td>
<td>44</td>
<td>735</td>
</tr>
<tr>
<td><strong>Navy AD</strong></td>
<td>23</td>
<td>335</td>
</tr>
<tr>
<td><strong>Marine Corps AD</strong></td>
<td>16</td>
<td>202</td>
</tr>
<tr>
<td><strong>Navy Recruit</strong></td>
<td>0</td>
<td>137</td>
</tr>
<tr>
<td><strong>Marine Corps Recruit</strong></td>
<td>5</td>
<td>61</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- ILI-related encounter visits have been above the national baseline for 7 weeks. [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 31DEC19.