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=4) and inpatient dispensed antivirals (N=18) is normal.
- Active duty and recruit laboratory positive cases and recruit 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>N 477</td>
<td>Normal</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 651</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 3.8</td>
<td>Normal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Severity</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>N 4</td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>N 18</td>
<td>Normal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active Duty and Recruits</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>N 112</td>
<td>Elevated</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>N 127</td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>N 13</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>N 9</td>
<td>Elevated</td>
</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 3)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)
Week 3 highlights:
- Influenza B continued to predominate in NORTHCOM.
- 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=477) 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 18.4%.

- **Specimens:** Overall percent positivity is 29.5%, with 64.9% of cases identified as influenza A.

- **Severity:** 4 inpatient laboratory-positive cases were identified in sponsors (N=4).

- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 46 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 40.3 cases per 100,000 persons.

- **Location:** NMC San Diego (N=54), NH Pensacola (N=40), NH Jacksonville (N=37), NMC Camp Lejeune (N=33), and NH Camp Pendleton (N=33) 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)
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=651) 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 35.6%.
- **Severity:** 18 inpatient dispensed antivirals were identified in spouses (N=8), sponsors (N=7), and children (N=3).
- **Types:** All dispensed AVs were for oseltamivir.
- **Location:** NMC San Diego (N=96), NH Pensacola (N=85), NMC Portsmouth (N=57), NH Camp Pendleton (N=52), and NH Jacksonville (N=42) had the highest number of dispensed antivirals for the week.

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

### Top MTFs, Dispensed Antivirals, Week 4

- NMC SAN DIEGO: 96
- NH PENSAKOLO: 85
- NMC PORTSMOUTH: 57
- NH CAMP PENDLETON: 52
- NH JACKSONVILLE: 42
- FT BELVOIR COMMUNITY HOSP-FICH: 23
- JAMES A LOVELL PHCC: 21

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

- NH PENSAKOLO: 638
- NMC SAN DIEGO: 513
- NMC PORTSMOUTH: 440
- NH JACKSONVILLE: 274
- NH CAMP PENDLETON: 229
- NMC CAMP LEJEUNE: 162
- JAMES A LOVELL PHCC: 112

Note: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 3)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.8% in Week 3, 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 (89.3%) of antiviral prescriptions in Week 4 were for treatment of influenza or influenza symptoms.
- **Prophylaxis:** 10.7% (N=68) of antiviral prescriptions in Week 4 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

### Outpatient Medical Encounters due to ILI, Week 3

- **ILI % 2019 - 2020 Baseline**

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Prepared by the EpiData Center | email | web
Navy and Marine Corps Public Health Center
• **AD Laboratory Cases:** 112 laboratory-positive cases were identified among AD Sailors (N=82) and Marines (N=30).

• **AD Dispensed Antivirals:** 127 dispensed antivirals were identified among AD Sailors (N=95) and Marines (N=32).

• **Recruits:** 13 laboratory-positive cases and 9 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=16), James A Lovell FHCC (N=10), NH Jacksonville (N=10), and NMC Portsmouth (N=8).

• **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at James A Lovell FHCC (N=6), NH Beaufort (N=4), NMC San Diego (N=2), and NH Twentynine Palms (N=1).

• **Vaccination Status:** 96 AD laboratory-positive cases (85.7%) 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 rates of laboratory-positive cases among Navy and Marine Corps service members over weeks 41 to 13.]

### 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>125</td>
<td>1,250</td>
</tr>
<tr>
<td><strong>Navy AD</strong></td>
<td>82</td>
<td>667</td>
</tr>
<tr>
<td><strong>Marine Corps AD</strong></td>
<td>30</td>
<td>345</td>
</tr>
<tr>
<td><strong>Navy Recruit</strong></td>
<td>6</td>
<td>146</td>
</tr>
<tr>
<td><strong>Marine Corps Recruit</strong></td>
<td>7</td>
<td>92</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

• The CDC is reporting 15 new pediatric deaths occurred during week 3. [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 28JAN20.