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 increased over the prior two weeks.
- Inpatient activity for laboratory-positive cases (N=1) is low, while inpatient activity for dispensed antivirals is (N=8) is normal.
- Among active duty and recruits, both laboratory-positive 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>Elevated</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>▲</td>
<td>Elevated</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
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</table>

<table>
<thead>
<tr>
<th>Severity</th>
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<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>▲</td>
<td>Low</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>▲</td>
<td>Normal</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Active Duty and Recruits</th>
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<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>▲</td>
<td>Elevated</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>▲</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>▲</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>▲</td>
<td>Elevated</td>
</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 50)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Summary for Week 50
- Total Cases: 621
- % in Lab: 57.2
- % in Pharmacy: 57.6
- % in Encounters: 55.9

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)
Week 50 highlights:
- Influenza type B continues to be 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=350) 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 1.4%.
- **Specimens:** Overall percent positivity is 22.8%, with 43.8% of cases identified as influenza A.
- **Severity:** One inpatient laboratory-positive cases case was identified in a spouse (N=1).
- **Age:** Children ages 5-17 had the highest rate of laboratory-positive influenza cases at 40.3 cases per 100,000 persons, while children ages 0-4 had the second highest rate at 29.8 cases per 100,000 persons.
- **Location:** NH Jacksonville (N=55), NH Camp Pendleton (N=32), NH Twentynine Palms (N=31), NMC Camp Lejeune (N=29), and Ft Belvoir Community Hosp-FBCH(N=24) 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 Laboratory-Positive Influenza Cases and Seasonal Baseline, 2019 - 2020 Season

DON Laboratory-Positive Cases, Seasonal Comparison, 2014-2019

DON Laboratory-Positive Influenza Specimens, by Type

DON Laboratory-Positive Case Rates by Age Group

**Top MTFs, Laboratory-Positive Cases, Week 51**

- NH Jacksonville: 55
- NH Camp Pendleton: 32
- NH Twentynine Palms: 31
- NMC Camp Lejeune: 29
- Ft Belvoir Community Hosp-FBCH: 24
- NMC San Diego: 21
- NH Pensacola: 20

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

- NH Jacksonville: 222
- James A. Lovell FHC: 210
- NMC Camp Lejeune: 196
- NH Pensacola: 158
- NH Camp Pendleton: 153
- NH Twentynine Palms: 136
- NMC San Diego: 87

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=506) are elevated and above the seasonal threshold. The trend over the past two weeks has increased. The number of dispensed antivirals increased from the prior week by 41.7%.

- **Severity:** 8 inpatient dispensed antivirals were identified in sponsors (N=5) and spouses (N=3).

- **Types:** Dispensed AVs consisted of 1 baloxavir and 505 oseltamivir.

- **Location:** NH Jacksonville (N=61), NMC Portsmouth (N=58), NH Pensacola (N=55), NMC San Diego (N=36), and NH Twentynine Palms (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 51

Top MTFs, Dispensed Antivirals, 2019 - 2020 Season

Note: Season counts are since Week 37.

Influenza-Like Illness (Data Lagged, Week 50)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.7% in Week 50, 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 Medical Encounters due to ILI, Week 50

Outpatient Antiviral Prophylaxis

- **Treatment:** The majority (87.1%) of antiviral prescriptions in Week 51 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 12.9% (N=64) of antiviral prescriptions in Week 51 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

Outpatient Antiviral Prophylaxis Prescriptions

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

Week 51: Page 3 of 4
DON Active Duty and Recruits

- **AD Laboratory Cases**: 64 laboratory-positive cases were identified among AD Sailors (N=37) and Marines (N=27).
- **AD Dispensed Antivirals**: 95 dispensed antivirals were identified among AD Sailors (N=68) and Marines (N=27).
- **Recruits**: 13 laboratory-positive cases and 14 dispensed antivirals were identified among recruits.
- **Location (Active Duty)**: Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NH Twentynine Palms (N=8), NH Jacksonville (N=8), NMC Camp Lejeune (N=7), and NMC San Diego (N=7).
- **Location (Recruits)**: Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=9), NH Camp Pendleton (N=2), James A Lovell FHCC (N=1), and NH Twentynine Palms (N=1).
- **Vaccination Status**: 50 AD laboratory-positive cases (78.1%) 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-positive cases among Active Duty members](image)

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Cases</strong></td>
<td>77</td>
<td>681</td>
</tr>
<tr>
<td><strong>Navy AD</strong></td>
<td>37</td>
<td>306</td>
</tr>
<tr>
<td><strong>Marine Corps AD</strong></td>
<td>27</td>
<td>183</td>
</tr>
<tr>
<td><strong>Navy Recruit</strong></td>
<td>1</td>
<td>137</td>
</tr>
<tr>
<td><strong>Marine Corps Recruit</strong></td>
<td>12</td>
<td>55</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

- Nine influenza-associated pediatric deaths were reported to CDC during week 50. [Details.](#)
- A study from *Emerging Infectious Diseases* concludes that workers with a telework option worked more days then workers without when they had an acute respiratory illness. [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 23DEC19.