Weekly Highlights

- Overall influenza activity in the DON is low.
- Laboratory-positive cases and dispensed antivirals are low and the trend has remained the same over the prior 2 weeks. The percent of outpatient visits for ILI are normal and the trend has remained the same over the prior 2 weeks.
- Inpatient activity for both laboratory-positive cases (N=0) and inpatient dispensed antivirals (N=2) is low.
- Although DON influenza activity is low, the frequency of laboratory cases at Week 43 is higher compared to the past 5 seasons.

Active Duty Vaccination Rates, 20 OCT 2019

<table>
<thead>
<tr>
<th></th>
<th>US Fleet Forces</th>
<th>Navy Active Duty</th>
<th>Marine Corps Active Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal</td>
<td>90%</td>
<td>90%</td>
<td>90%</td>
</tr>
<tr>
<td>Achieved</td>
<td>34.4%</td>
<td>30.4%</td>
<td>21.7%</td>
</tr>
</tbody>
</table>

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>Low</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td>Low</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></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></td>
<td>Low</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td></td>
<td>Low</td>
</tr>
</tbody>
</table>

Active Duty and Recruits

| Active Duty Laboratory Cases      |       | Normal         |
| Active Duty Dispensed Antivirals  |       | Normal         |
| Recruit Laboratory Cases          |       | Elevated       |
| Recruit Dispensed Antivirals      |       | Elevated       |

Overall Burden (Data Lagged, Week 42)

<table>
<thead>
<tr>
<th>DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data</th>
</tr>
</thead>
</table>

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)
Week 43 highlights:
- No recent updates available at this time.

Febrile Respiratory Illness Surveillance Report (NHRC)
25 OCT 2019 report highlights:
- No recent updates available at this time.

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.
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=63) are low and below the seasonal threshold. The trend over the past two weeks has remained the same. The number of laboratory-positive cases remained the same from the prior week.
- **Specimens:** Overall percent positivity is 8.6%, with 46.9% of cases identified as influenza A.
- **Severity:** No inpatient laboratory-positive cases were identified.
- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 5.2 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 4.0 cases per 100,000 persons.
- **Location:** James A Lovell FHCC (N=12), NMC Camp Lejeune (N=10), NH Jacksonville (N=6), NH Pensacola (N=6), and NHC Annapolis (N=5) 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)

*Note: Season counts are since Week 37.*
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=114) are low and below the seasonal threshold. The trend over the past two weeks has increased. The number of dispensed antivirals increased from the prior week by 26.7%.

- **Severity:** 2 inpatient dispensed antivirals were identified among sponsors (N=2).

- **Location:** NH Pensacola (N=23), NMC Camp Lejeune (N=11), NMC Portsmouth (N=11), NH Jacksonville (N=9), and NMC San Diego (N=8) had the highest number of dispensed antivirals for the week.

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

DON Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2019 - 2020 Season

Influenza-Like Illness (Data Lagged, Week 42)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 2.9% in Week 42, below the surveillance threshold of 4.1%.

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

Data source: CAPER

Antiviral Prophylaxis

- **Treatment:** The majority (83.9%) of antiviral prescriptions in Week 43 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 15.2% of antiviral prescriptions in Week 43 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

Outpatient Medical Encounters due to ILI, Week 42

Antiviral Prophylaxis Prescriptions
DON Active Duty and Recruits

- **AD Laboratory Cases:** 17 laboratory-positive cases were identified among AD Sailors (N=13) and Marines (N=4).
- **AD Dispensed Antivirals:** 33 dispensed antivirals were identified among AD Sailors (N=28) and Marines (N=5).
- **Recruits:** 11 laboratory-positive cases and 8 dispensed antivirals were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at James A Lovell FHCC (N=2), NMC Camp Lejeune (N=2), NH Guantanamo Bay (N=2), and NH Pensacola (N=2).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at James A Lovell FHCC (N=9), and NH Beaufort (N=2).
- **Vaccination Status:** 2 AD laboratory-positive cases (11.8%) 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

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 43</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>28</td>
<td>128</td>
</tr>
<tr>
<td>Navy AD</td>
<td>13</td>
<td>60</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>4</td>
<td>26</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>9</td>
<td>38</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Note:** Season counts are since Week 37.

### In the News

- The CDC reported that two pediatric influenza-related deaths occurred during the week ending 10/12/2019. One was linked to an unsubtyped influenza A virus, and the other related to an influenza B/Victoria-lineage virus. [Details.](#)
- The CDC reported that ILI-related patient visits increased during Week 42. "Hot spots" included Louisiana and Puerto Rico with high ILI activity. [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.
- Laboratory-positive and AV baselines are calculated as an average of the 2015-2016, 2016-2017, and 2017-2018 seasons.
- ILI threshold is calculated based on the off-season percentage outpatient visits for the 2015-2016, 2016-2017, and 2017-2018 seasons, plus two standard deviations.
- 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 29OCT19.