**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.
- No inpatient laboratory-positive influenza cases or dispensed antivirals occurred this week.

**Active Duty Vaccination Rates, 6 OCT 2019**

<table>
<thead>
<tr>
<th>DON Goal = 90% (by 15 Dec 2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Fleet Forces</td>
</tr>
<tr>
<td>Navy Active Duty</td>
</tr>
<tr>
<td>Marine Corps Active Duty</td>
</tr>
</tbody>
</table>

### Influenza Surveillance Indicators

#### Overview

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Cases</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td>N</td>
<td>33</td>
<td>Low</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N</td>
<td>44</td>
<td>Low</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>%</td>
<td>2.9</td>
<td>Normal</td>
</tr>
</tbody>
</table>

#### Severity

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Cases</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>N</td>
<td>0</td>
<td>Low</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>N</td>
<td>0</td>
<td>Low</td>
</tr>
</tbody>
</table>

#### Active Duty and Recruits

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Cases</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>N</td>
<td>13</td>
<td>Normal</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>N</td>
<td>14</td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>N</td>
<td>3</td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>N</td>
<td>2</td>
<td>Low</td>
</tr>
</tbody>
</table>

### Overall Burden (Data Lagged, Week 39)

**DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data**

- Total Cases: 64
- % in Lab: 26.6
- % in Pharmacy: 43.3
- % in Encounters: 57.8

### Supporting Surveillance

- **DOD Seasonal Influenza Surveillance Summary (AFHSB)**
  - Week 40 highlights:
    - No recent updates available at this time.

- **Febrile Respiratory Illness Surveillance Report (NHRC)**
  - 09 OCT 2019 report highlights:
    - No recent updates available at this time.
• **Burden:** Laboratory-positive influenza cases (N=33) are low and below 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 94.1%.

• **Specimens:** Overall percent positivity is 6.3%, with 48.5% of cases identified as influenza A.

• **Severity:** No inpatient laboratory-positive cases were identified.

• **Age:** Children ages 5-17 had the highest rate of laboratory-positive influenza cases at 2.1 cases per 100,000 persons, while adults ages 44+ had the second highest rate at 1.7 cases per 100,000 persons.

• **Location:** James A Lovell FHCC (N=5), NH Okinawa (N=4), AMC Tripler-Shafter (N=3), NH Pensacola (N=3), and NMC Camp Lejeune (N=3) 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.
Antiviral Surveillance

- **Burden**: Dispensed antivirals (N=44) 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 57.1%.
- **Severity**: No inpatient dispensed antivirals cases were identified.
- **Types**: All dispensed AVs were for oseltamivir.
- **Location**: NH Pensacola (N=9), AF-Mc-99th Medgrp-Nellis (N=4), and James A Lovell FHCC (N=3) had the highest number of dispensed antivirals for the week.

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

Top MTFs, Dispensed Antivirals, Week 40

![Top MTFs, Dispensed Antivirals, Week 40](image1)

Top MTFs, Dispensed Antivirals, 2019 - 2020 Season

![Top MTFs, Dispensed Antivirals, 2019 - 2020 Season](image2)

Note: Season counts are since Week 37.

Influenza-Like Illness (Data Lagged, Week 39)

- **All outpatient**: Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 2.9% in Week 39, 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 39

![Outpatient Medical Encounters due to ILI, Week 39](image3)

Antiviral Prophylaxis

- The majority of prescriptions for oseltamivir were for treatment of influenza or influenza-like illness in Week 40.

Data source: HL7-formatted CHCS pharmacy databases

Antiviral Prophylaxis Prescriptions

![Antiviral Prophylaxis Prescriptions](image4)
DON Active Duty and Recruits

- **AD Laboratory Cases:** 13 laboratory-positive cases were identified among AD Sailors (N=8) and Marines (N=5).
- **AD Dispensed Antivirals:** 14 dispensed antivirals were identified among AD Sailors (N=9) and Marines (N=5).
- **Recruits:** 3 laboratory-positive cases and 2 dispensed antivirals were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NH Okinawa (N=3), James A Lovell FHCC (N=2), NH Guam-Agana (N=2), and NMC Camp Lejeune (N=2).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at James A Lovell FHCC (N=3).
- **Vaccination Status:** No AD laboratory-positive cases had a vaccination record more than fourteen days prior to infection.

Data Sources: HL7-formatted CHCS chemistry, microbiology and pharmacy databases, MRRS and ITS.

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### Laboratory-Positive Cases Among DON Active Duty Service Members, 2019 - 2020 Season

![Graph showing laboratory-positive cases among DON Active Duty Service Members, 2019 - 2020 Season](image)

### DON Active Duty and Recruit Cases

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cases</td>
<td>Week 40</td>
<td>Week 40</td>
</tr>
<tr>
<td></td>
<td>Season</td>
<td>Season</td>
</tr>
<tr>
<td>Navy AD</td>
<td>8</td>
<td>9</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>5</td>
<td>18</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

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### In the News

- Australia had an unusually early and fairly severe influenza season this year prompting U.S. public health experts to urge the public to get their flu shots as soon as possible. [Details](#).

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### 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.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 08OCT19.