Week 9 Highlights

- Overall influenza activity in the DON is normal.
- Laboratory-positive cases are normal and the trend has decreased over the prior two weeks. Dispensed antivirals and the percent of outpatient visits for ILI are elevated and the trend has remained the same over the prior weeks.
- Inpatient activity for both laboratory-positive cases (N=5) and inpatient dispensed antivirals (N=18) is normal.
- Among DON AD service members, laboratory-positive cases and dispensed antivirals were elevated during Week 9.

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>Elevated</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
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<table>
<thead>
<tr>
<th>Severity</th>
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<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>▼</td>
<td>Normal</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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</thead>
<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>Normal</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>▼</td>
<td>Normal</td>
</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 8)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB) Week 8 highlights:

- Among active duty service members, ILI increased and remained high during Week 8.
- 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=483) are normal and above the seasonal threshold. The trend over the past two weeks has decreased. The number of laboratory-positive cases decreased from the prior week by 2.6%.
- **Specimens**: Overall percent positivity is 24.5%, with 76.4% of cases identified as influenza A.
- **Severity**: 5 inpatient laboratory-positive cases were identified in sponsors (N=3) and children (N=2).
- **Age**: Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 40.8 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 31 cases per 100,000 persons.
- **Location**: NMC Camp Lejeune (N=95), NMC Portsmouth (N=37), James A Lovell FHCC (N=33), Ft Belvoir Community Hosp-FBCH(N=30), and NH Jacksonville (N=29) 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.
Burden: Dispensed antivirals (N=650) are elevated and above the seasonal threshold. The trend over the past two weeks has decreased. The number of dispensed antivirals decreased from the prior week by 13.2%.

Severity: 18 inpatient dispensed antivirals were identified in sponsors (N=10), spouses (N=6), and children (N=2).

Types: Dispensed AVs consisted of 5 baloxavir and 645 oseltamivir

Location: NMC Portsmouth (N=99), NH Pensacola (N=45), NH Jacksonville (N=42), Walter Reed Natl Mil Med Cntr (N=38), and NMC Camp Lejeune (N=38) had the highest number of dispensed antivirals for the week.

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

Top MTFs, Dispensed Antivirals, Week 9

Top MTFs, Dispensed Antivirals, 2019 - 2020 Season

Note: Season counts are since Week 37.

Influenza-Like Illness (Data Lagged, Week 8)

All outpatient: Influenza-like illness (ILI) activity is elevated. The percentage of outpatient medical encounters due to ILI was 4.9% in Week 8, above 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 8

Outpatient Antiviral Prophylaxis

Treatment: The majority (86.8%) of antiviral prescriptions in Week 9 were for treatment of influenza or influenza symptoms.

Prophylaxis: 13.2% (N=83) of antiviral prescriptions in Week 9 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

Outpatient Antiviral Prophylaxis Prescriptions
**DON Active Duty and Recruits**

- **AD Laboratory Cases:** 168 laboratory-positive cases were identified among AD Sailors (N=98) and Marines (N=70).
- **AD Dispensed Antivirals:** 187 dispensed antivirals were identified among AD Sailors (N=137) and Marines (N=50).
- **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 Camp Lejeune (N=39), James A Lovell FHCC (N=14), NMC Portsmouth (N=12), and NH Jacksonville (N=9).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at James A Lovell FHCC (N=3), NH Camp Pendleton (N=1), and NH Beaufort (N=1).
- **Vaccination Status:** 155 AD laboratory-positive cases (92.3%) 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]

**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 9</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>173</td>
<td>2,287</td>
</tr>
<tr>
<td>Navy AD</td>
<td>98</td>
<td>1,265</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>70</td>
<td>686</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>3</td>
<td>197</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>2</td>
<td>139</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

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**In the News**

- The CDC reports that flu activity decreased during Week 8 but rates of influenza-related hospitalizations among children and young adults remained high. [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.
- 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, J10.02, J10.1, J10.10, 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 03MAR20.