**Influenza Situation Report: 2019 - 2020 Season**
**Department of the Navy**

**Week 45 (November 3 - November 9, 2019)**

**Weekly Highlights**

- Overall influenza activity in the DON is **normal**.
- Laboratory-positive cases and dispensed antivirals are **normal** and the trend has increased over the prior 2 weeks. The percent of outpatient visits for ILI are **low** and the trend has remained the same over the prior 2 weeks.
- Inpatient activity for both laboratory-positive cases (N=1) and inpatient dispensed antivirals (N=3) is **low**.
- Both laboratory-positive cases and antivirals have crossed the seasonal threshold.

**Influenza Surveillance Indicators**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td></td>
<td><strong>Normal</strong></td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td><strong>Normal</strong></td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></td>
<td><strong>Low</strong></td>
</tr>
<tr>
<td>Inpatient Laboratory Cases</td>
<td></td>
<td><strong>Low</strong></td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td></td>
<td><strong>Low</strong></td>
</tr>
</tbody>
</table>

**Active Duty Vaccination Rates, 12 Nov 2019**

<table>
<thead>
<tr>
<th>Service</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Fleet Forces</td>
<td></td>
<td>61.3%</td>
</tr>
<tr>
<td>Navy Active Duty</td>
<td></td>
<td>58.6%</td>
</tr>
<tr>
<td>Marine Corps Active Duty</td>
<td></td>
<td>48.9%</td>
</tr>
</tbody>
</table>

**Overall Burden (Data Lagged, Week 44)**

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

**Supporting Surveillance**

- DOD Seasonal Influenza Surveillance Summary (AFHSB)
  No updates available for Week 44. Week 43 is available.

- Febrile Respiratory Illness Surveillance Report (NHRC)
  No updated reports were available this week.

*Data from NH Oak Harbor, NH Bremerton, NH Lemoore, AMC Madigan, AHC Monterey, AHC Fairchild, Mountain Home AFB, and Travis AFB are not captured due to the transition to MHS GENESIS.*

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

NMCPHC-EDC-TR-546-2019
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Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=134) are normal and above the seasonal threshold. The trend over the past two weeks has increased. The number of laboratory-positive cases increased from the prior week by 30.1%.

- **Specimens:** Overall percent positivity is 13.5%, with 63.2% of cases identified as influenza A.

- **Severity:** One inpatient laboratory-positive case was identified in a child (N=1).

- **Age:** Children ages 5-17 had the highest rate of laboratory-positive influenza cases at 9 cases per 100,000 persons, while adults ages 18-44 had the second highest rate at 8.2 cases per 100,000 persons.

- **Location:** James A Lovell FHCC (N=45), NH Pensacola (N=18), NMC Camp Lejeune (N=13), NH Jacksonville (N=11), and NHC Annapolis (N=6) had the highest number of laboratory-positive cases for the week.

- **Recruits cases, identified as influenza Type B, continue to account for much of the initial influenza activity.**

Data sources: HL7-formatted CHCS chemistry and microbiology databases. Denominators for rates are from M2 eligibility records.

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**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 45**

JAMES A LOVELL FHCC 45
NH PENSACOLA 18
NMC CAMP LEJEUNE 13
NH JACKSONVILLE 11
NH ANNAPOLES 6
NH GUAM-AGANA 5
AMC BUMC-FISH 4

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

JAMES A LOVELL FHCC 131
NMC CAMP LEJEUNE 78
NH PENSACOLA 51
NH JACKSONVILLE 46
NH OKINAWA 27
NH ANNAPOLES 25
NH GUAM-AGANA 17

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=160) 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 29%.

- **Severity:** 3 inpatient dispensed antivirals were identified in sponsors (N=2) and a child (N=1).

- **Balance:** Baloxavir was seen for the first time in the DON (n=1).

- **Location:** James A Lovell FHCC (N=36), NH Pensacola (N=36), NH Jacksonville (N=14), NMC San Diego (N=11), and NMC Camp Lejeune (N=8) had the highest number of dispensed antivirals for the week.

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

### Top MTFs, Dispensed Antivirals, Week 45

- James A Lovell FHCC: 36
- NH Pensacola: 36
- NH Jacksonville: 14
- NMC San Diego: 11
- NMC Camp Lejeune: 8
- NH Guam-Asan: 8

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

- NH Pensacola: 142
- James A Lovell FHCC: 75
- NH Jacksonville: 59
- NMC Camp Lejeune: 59
- NMC San Diego: 40
- NMC Portsmouth: 38
- NH Guantanamo Bay: 28

Note: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 44)

- **All outpatient:** Influenza-like illness (ILI) activity is low. The percentage of outpatient medical encounters due to ILI was 2.8% in Week 44, 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 44

Antiviral Prophylaxis

- **Treatment:** The majority of antiviral prescriptions in Week 45 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 10.8% of antiviral prescriptions in Week 45 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

### Antiviral Prophylaxis Prescriptions

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DON Active Duty and Recruits

- **AD Laboratory Cases:** 33 laboratory-positive cases were identified among AD Sailors (N=28) and Marines (N=5).
- **AD Dispensed Antivirals:** 36 dispensed antivirals were identified among AD Sailors (N=33) and Marines (N=3).
- **Recruits:** 38 laboratory-positive cases and 33 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=8), NH Pensacola (N=7), NH Jacksonville (N=5), NHC New England (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=36), NMC San Diego (N=1), and NH Beaufort (N=1).
- **Vaccination Status:** 7 AD laboratory-positive cases (21.2%) 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 45</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>71</td>
<td>256</td>
</tr>
<tr>
<td>Navy AD</td>
<td>28</td>
<td>112</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>5</td>
<td>36</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>36</td>
<td>100</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>2</td>
<td>8</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- CDC reports increasing influenza activity in the US, with sporadic activity reported across multiple states. [Details.](#)
- Check out state health department influenza surveillance pages for more detailed reporting on what is happening within each state. Florida is currently experiencing mixed levels of activity across counties. [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 13NOV19.