Weekly Highlights

- Overall influenza activity in the DON is low.
- Laboratory-positive cases and dispensed antivirals are low and the trend has increased 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=1) and inpatient dispensed antivirals (N=5) is low.
- US Fleet Forces has achieved their vaccination goal.

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>N 55</td>
<td>Up Low</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 96</td>
<td>Up Low</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 3.5</td>
<td>Down Up Normal</td>
</tr>
</tbody>
</table>

Severity

| Inpatient Laboratory Cases     | N 1   | Down Up Low    |
| Inpatient Dispensed Antivirals | N 5   | Down Up Low    |

Active Duty and Recruits

| Active Duty Laboratory Cases   | N 8   | Down Up Normal |
| Active Duty Dispensed Antivirals| N 16  | Down Up Normal |
| Recruit Laboratory Cases       | N 0   | Down Up Low    |
| Recruit Dispensed Antivirals   | N 1   | Down Up Low    |

Overall Burden (Data Lagged, Week 48)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)

Week 48 highlights:

- Texas, Virginia, and Massachusetts all have high activity levels.
- The percentage of outpatient visits due to ILI continue to increase and remain above baseline.
- Access the full report here.
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=55) are low and below the seasonal threshold. The trend over the past two weeks has increased; the number of laboratory-positive cases increased from the prior week by 14.6%.

- **Specimens:** Overall percent positivity is 8.2%, with 84.2% of cases identified as influenza A.

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

- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 10.3 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 4 cases per 100,000 persons.

- **Location:** NMC San Diego (N=13), NMC Camp Lejeune (N=12), NH Camp Pendleton (N=10), AF-H-633rd Medgrp Jble-Langley(N=7), and AHC McDonald-Eustis (N=2) 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)**

**DON Laboratory-Positive Influenza Cases and Seasonal Baseline, 2018 - 2019 Season**

**DON Laboratory-Positive Cases, Seasonal Comparison, 2013-2018**

**DON Laboratory-Positive Influenza Specimens, by Type**

**DON Laboratory-Positive Case Rates by Age Group**

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=96) 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 12.9%.
- **Severity:** 5 inpatient dispensed antivirals were identified in children (N=3), a spouse (N=1), and a sponsor (N=1).
- **Types:** All dispensed AVs were for oseltamivir.
- **Location:** NMC San Diego (N=20), NH Camp Pendleton (N=10), NMC Portsmouth (N=8), NMC Camp Lejeune (N=7), and NH Pensacola (N=6) had the highest number of dispensed antivirals for the week.

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

**Top MTFs, Dispensed Antivirals, Week 49**

- NMC SAN DIEGO: 20
- NH CAMP PENDLETON: 16
- NMC PORTSMOUTH: 8
- NMC CAMP LEJEUNE: 7
- NH PENSACOLA: 6
- AFH453HD MEDGRP JBLE-LANGLEY: 5
- WALTER REED NATL MIL MED CNTR: 5

**Top MTFs, Dispensed Antivirals, Season 2018 - 2019**

- NMC SAN DIEGO: 81
- NH PENSACOLA: 63
- NMC CAMP LEJEUNE: 56
- NH JACKSONVILLE: 45
- NMC PORTSMOUTH: 41
- NMC CAMP PENDLETON: 38
- WALTER REED NATL MIL MED CNTR: 26

Note: Season counts are since Week 37.

**Influenza-Like Illness (Data Lagged, Week 48)**

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.5% in Week 48, below the surveillance threshold of 4.5%.
- **Note:** ILI activity is used to indicate the burden of ILI on healthcare resources.

Data source: CAPER

**Outpatient Medical Encounters due to ILI, Week 48**

**DON Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2018 - 2019 Season**

**DON Inpatient Dispensed Antivirals (Severity)**

**Medical Event Reports (MER)**

- **3 MERs for an influenza-associated hospitalization were reported to DRSi this week. 3 matched to either laboratory or pharmacy surveillance data. Only 1 MER had a date of onset during week 49.**
- **Note:** An influenza-associated hospitalization for an individual 65 or younger is a reportable medical event.

Data source: Disease Reporting System-internet

**MERs for Influenza-Associated Hospitalizations**

<table>
<thead>
<tr>
<th>MER</th>
<th>Match to Surveillance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Week 49</td>
<td>1</td>
</tr>
<tr>
<td>Season</td>
<td>8</td>
</tr>
</tbody>
</table>
DON Active Duty and Recruits

- **AD Laboratory Cases**: 8 laboratory-positive cases were identified among AD Sailors (N=2) and Marines (N=6).
- **AD Dispensed Antivirals**: 16 dispensed antivirals were identified among AD Sailors (N=11) and Marines (N=5).
- **Recruits**: 1 dispensed antiviral was identified among recruits. No laboratory-positive cases were identified among recruits.
- **Location (Active Duty)**: Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NMC Camp Lejeune (N=5), NH Okinawa (N=1), AF-H-633rd Medgrp Jble-Langley(N=1), and NH Camp Pendleton (N=1).
- **Location (Recruits)**: No laboratory-positive cases occurred among recruit Sailors or Marines.

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

### Laboratory-Positive Cases Among DON Active Duty Service Members, 2018 - 2019

<table>
<thead>
<tr>
<th>Week</th>
<th>Labrador Positive</th>
<th>Dispensed Antivirals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Total Cases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Navy AD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine Corps AD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Navy Recruit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine Corps Recruit</td>
</tr>
<tr>
<td>49</td>
<td>8</td>
<td>2</td>
</tr>
<tr>
<td>49</td>
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<td>6</td>
</tr>
<tr>
<td>49</td>
<td></td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>82</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>96</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1</td>
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<tr>
<td></td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

- **WHO** is reporting that flu is on the rise globally, with influenza A representing more than 90% of detections. [Details.](#)
- **CDC** is reporting influenza activity in the United States increased slightly and no influenza-associated pediatric deaths were reported for week 48. [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, NH Bremerton, AMC Madigan, and Fairchild 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, J12.9, J12.9, J13.8, 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 12DEC18.

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