Weekly Highlights

- Due to a data migration, data for week 8 is incomplete.
- Overall influenza activity in the DON is normal.
- Laboratory-positive cases, dispensed antivirals, and the percent of outpatient visits for ILI are normal and the trend has decreased over the prior two weeks.
- Inpatient activity for both laboratory-positive cases (N=5) and inpatient dispensed antivirals (N=22) is normal.

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>N 364</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N 546</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>% 4.4</td>
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<table>
<thead>
<tr>
<th>Severity</th>
<th></th>
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<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N 5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N 22</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active Duty and Recruits</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td></td>
<td>Elevated</td>
</tr>
<tr>
<td>N 82</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N 99</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td></td>
<td>Low</td>
</tr>
<tr>
<td>N 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td></td>
<td>Low</td>
</tr>
<tr>
<td>N 1</td>
<td></td>
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</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 7)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)
Week 7 highlights:
- Influenza activity increased in many states during week 7.
- The percentage of outpatient visits due to ILI increases and was above baseline.
- Access the full report here.

Febrile Respiratory Illness Surveillance Report (NHRC)
21 FEB 2019 report highlights:
- Influenza A H3 clusters were detected at Coast Guard Training Center Cape May, NH Yokosuka, NHC Lemoore, and MCRD San Diego.
- Access the full report here.
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=364) 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 37.8%.

- **Specimens:** Overall percent positivity is 26.2%, with 93.5% of cases identified as influenza A.

- **Severity:** 5 inpatient laboratory-positive cases were identified in spouses (N=4) and a sponsor (N=1)

- **Age:** Children ages 5-17 had the highest rate of laboratory-positive influenza cases at 36.2 cases per 100,000 persons, while children ages 1-4 had the second highest rate at 32.9 cases per 100,000 persons.

- **Location:** NH Pensacola (N=44), NH Jacksonville (N=41), NMC Portsmouth (N=37), NMC Camp Lejeune (N=31), and NMC San Diego (N=25) 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 Laboratory-Positive Cases, Seasonal Comparison, 2013-2018

DON Laboratory-Positive Influenza Specimens, by Type

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

DON Laboratory-Positive Case Rates by Age Group

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=546) are normal 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 30.6%.
- **Severity:** 22 inpatient dispensed antivirals were identified in spouse (N=9), sponsor (N=7), and child (N=6).
- All dispensed AVs were for oseltamivir.
- **Location:** NH Pensacola (N=120), NMC Portsmouth (N=85), NMC San Diego (N=38), NH Jacksonville (N=36), and Walter Reed Natl Mil Med Cntr (N=24) had the highest number of dispensed antivirals for the week.

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

### Top MTFs, Dispensed Antivirals, Week 8

- NH Pensacola: 120
- NMC Portsmouth: 85
- NMC San Diego: 38
- NH Jacksonville: 38
- Walter Reed Natl Mil Med Cntr: 24
- NMC Camp Lejeune: 19
- NMC Patuxent River: 18

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

- NH Pensacola: 671
- NMC Portsmouth: 537
- NMC Camp Lejeune: 325
- NMC San Diego: 224
- NH Jacksonville: 252
- NH Camp Pendleton: 232
- NY Yokosuka: 232

Note: Season counts are since Week 37.

### Medical Event Reports (MER)

- **6 MERs** for an influenza-associated hospitalization were reported to DRSi this week. 4 matched to either laboratory or pharmacy surveillance data.
- **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>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 8</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Season</td>
<td>75</td>
<td>66</td>
</tr>
</tbody>
</table>

### Influenza-Like Illness (Data Lagged, Week 7)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 4.4% in Week 7, compared to 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 7

Prepared by the EpiData Center | email | web
Navy and Marine Corps Public Health Center
DON Active Duty and Recruits

- **AD Laboratory Cases:** 82 laboratory-positive cases were identified among AD Sailors (N=58) and Marines (N=24).
- **AD Dispensed Antivirals:** 99 dispensed antivirals were identified among AD Sailors (N=81) and Marines (N=18).
- **Recruits:** 1 laboratory-positive case and 1 dispensed antiviral were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NMC Portsmouth (N=10), NH Pensacola (N=7), NH Jacksonville (N=7), and NMC Camp Lejeune (N=7).
- **Location (Recruits):** The laboratory-positive case for recruit Sailors or Marines occurred at NMC San Diego (N=1).
- **Vaccination Status:** 74 AD laboratory-positive cases (90.2%) 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, 2018 - 2019**

![Graph showing rates per 100,000](image)

**DON Active Duty and Recruit Cases**

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Week 8</strong></td>
<td><strong>Season</strong></td>
<td><strong>Week 8</strong></td>
</tr>
<tr>
<td>Total Cases</td>
<td>83</td>
<td>765</td>
</tr>
<tr>
<td>Navy AD</td>
<td>58</td>
<td>497</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>24</td>
<td>238</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>1</td>
<td>23</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

**In the News**

- The CDC reports that influenza activity continues to increase in the United States in week 7. Seven influenza-associated pediatric deaths were reported in week 7. [Details](#).
- The CDC reports the interim estimates for influenza vaccine effectiveness for the 2018-2019 season as 47% effective. [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, J09.81, J10.82, J10.83, J10.89, J11, J11.0, J11.00, J11.08, J11.1, J11.2, J11.6, J11.81, J11.82, J11.83, J11.89, J12.89, J12.9, J18.9, J18.9, 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 27FEB19.