Influenza Situation Report: 2018 - 2019 Season  
Department of the Navy

Week 14 (March 31 - April 6, 2019)

Weekly Highlights

- Overall influenza activity in the DON is elevated.
- Laboratory-positive cases are elevated and the trend has decreased over the prior two weeks. Dispensed antivirals and the percent of outpatient visits for ILI are normal and the trend has remained the same over the prior weeks.
- Inpatient activity for both laboratory-positive cases (N=3) and inpatient dispensed antivirals (N=7) is normal.
- Of the 267 cases, 25 were identified as having Type B influenza.

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></td>
</tr>
<tr>
<td>N 267</td>
<td></td>
<td>Elevated</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N 385</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>% 3.6</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>N 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N 7</td>
<td></td>
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<table>
<thead>
<tr>
<th>Active Duty and Recruits</th>
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<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td></td>
<td>Elevated</td>
</tr>
<tr>
<td>N 76</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td></td>
<td>Elevated</td>
</tr>
<tr>
<td>N 97</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td></td>
<td>Elevated</td>
</tr>
<tr>
<td>N 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td></td>
<td>Normal</td>
</tr>
<tr>
<td>N 3</td>
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</tbody>
</table>

Overall Burden (Data Lagged, Week 13)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)

Week 13 highlights:
- Influenza activity in NORTHCOM continues to decrease. No states reported high activity.
- Influenza A/H3N2 continues to predominate.
- Access the full report here.
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=267) are elevated 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 22.2%.

- **Specimens:** Overall percent positivity is 21.9%, with 91.2% of cases identified as influenza A.

- **Severity:** 3 inpatient laboratory-positive cases were identified in sponsors (N=2), and a spouse (N=1).

- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 25.2 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 21 cases per 100,000 persons.

- **Location:** NMC Camp Lejeune (N=24), NHC Lemoore (N=21), NMC San Diego (N=20), Ft Belvoir Community Hosp-FBCH(N=19), and NH Camp Pendleton (N=19) 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)

![Graph showing severity of laboratory cases]

### Top MTFs, Laboratory-Positive Cases, Week 14

- **NMC CAMP LEJEUNE:** 24 cases
- **NHC LEMOORE:** 21 cases
- **NMC SAN DIEGO:** 20 cases
- **FT BELVOIR COMMUNITY HOSP/FBCH:** 19 cases
- **NH CAMP PENDLETON:** 19 cases
- **NH TWENTY NINE PALMS:** 18 cases
- **NHC ANNAPOLIS:** 15 cases

### Top MTFs, Laboratory-Positive Cases, 2018 - 2019 Season

- **NMC CAMP LEJEUNE:** 789 cases
- **NH JACKSONVILLE:** 466 cases
- **NMC SAN DIEGO:** 431 cases
- **NH CAMP PENDLETON:** 360 cases
- **NMC PORTSMOUTH:** 365 cases
- **FT BELVOIR COMMUNITY HOSP/FBCH:** 325 cases
- **NH PENSACOLA:** 324 cases

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=385) 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 17.7%.
- **Severity:** 7 inpatient dispensed antivirals were identified in sponsors (N=6), and a spouse (N=1).
- All dispensed AVs were for oseltamivir.
- **Location:** NMC Portsmouth (N=38), NH Pensacola (N=33), NHC Lemoore (N=32), NH Camp Pendleton (N=31), and Ft Belvoir Community Hosp-FBCH (N=26) had the highest number of dispensed antivirals for the week.

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

**Top MTFs, Disomed Antivirals, Week 14**

- NMC PORTSMOUTH (N=38)
- NH PENSACOLA (N=33)
- NMC LEMOORE (N=32)
- NH CAMP PENDLETON (N=31)
- FT BELVOIR COMMUNITY HOSP-FBCH (N=26)

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

- NMC PORTSMOUTH (N=1038)
- NH PENSACOLA (N=1011)
- NMC SAN DIEGO (N=640)
- NH JACKSONVILLE (N=472)
- NMC CAMP LEBEUENE (N=461)
- NH CAMP PENDLETON (N=461)
- WALTER REED NATL MIL MED CNTR (N=373)

**Influenza-Like Illness (Data Lagged, Week 13)**

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.6% in Week 13, 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 13**

**Medical Event Reports (MER)**

- 1 MER for an influenza-associated hospitalization were reported to DRSi this week.
- All MERs 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>
</tr>
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<tbody>
<tr>
<td>Week 14</td>
<td>N</td>
</tr>
<tr>
<td>Season</td>
<td>111</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.
DON Active Duty and Recruits

- **AD Laboratory Cases**: 76 laboratory-positive cases were identified among AD Sailors (N=48) and Marines (N=28).
- **AD Dispensed Antivirals**: 97 dispensed antivirals were identified among AD Sailors (N=75) and Marines (N=22).
- **Recruits**: 6 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 San Diego (N=8), AMC Bamc-FSH (N=8), NMC Camp Lejeune (N=6), NH Camp Pendleton (N=6), and NHC Lemoore (N=5).
- **Location (Recruits)**: Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=3), James A Lovell FHCC (N=2), and NMC San Diego (N=1).
- **Vaccination Status**: 72 AD laboratory-positive cases (94.7%) 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 laboratory-positive cases among DON Active Duty Service Members, 2018 - 2019]

#### DON Active Duty and Recruit Cases

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Week 14</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>82</td>
<td>1,450</td>
</tr>
<tr>
<td>Navy AD</td>
<td>48</td>
<td>915</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>28</td>
<td>467</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>4</td>
<td>52</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

- The CDC reports influenza activity had decreased, but is still elevated in the United States during week 13. Small numbers of influenza B have been reported and influenza A(H3N2) continues to predominate. Six influenza associated pediatric deaths were reported during week 13. [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, J12.99, 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 10APR19.