Weekly Highlights

- Overall influenza activity in the DON is low.
- Laboratory-positive cases, dispensed antivirals, and the percent of outpatient visits for ILI are low and the trend has remained neutral over the prior two weeks.
- Inpatient activity for both laboratory-positive cases (N=3) and inpatient dispensed antivirals (N=5) is normal.

Active Duty Vaccination Rates, 29 OCT 2018

**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>Low</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td></td>
<td>Low</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td></td>
<td>Low</td>
</tr>
</tbody>
</table>

**Severity**

- Inpatient Laboratory Cases N 3
- Inpatient Dispensed Antivirals N 5

**Active Duty and Recruits**

- Active Duty Laboratory Cases N 6
- Active Duty Dispensed Antivirals N 6
- Recruit Laboratory Cases N 0
- Recruit Dispensed Antivirals N 0

**Overall Burden (Data Lagged, Week 42)**

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

**Supporting Surveillance**

DOD Seasonal Influenza Surveillance Summary (AFHSB)

Week 42 highlights:
- ILI activity for NORTHCOM was minimal to low.
- Access the full report [here](#).
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=25) are low and below the seasonal threshold. The trend over the past two weeks has remained neutral.
- **Specimens:** Overall percent positivity is 4.7%, with 88.5% of cases identified as influenza A.
- **Severity:** 3 inpatient laboratory-positive cases were identified among sponsors (N=2) and a spouse (N=1).
- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 3.9 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 1.9 cases per 100,000 persons.
- **Location:** NH Jacksonville (N=8), NMC Camp Lejeune (N=6), NHC Cherry Point (N=3), and NH Pensacola (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.

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**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=42) are low and below the seasonal threshold. The trend over the past two weeks has remained neutral.

- **Severity:** 5 inpatient dispensed antivirals were identified among spouses (N=2), sponsors (N=2), and a child (N=1).

- **Types:** All dispensed AVs were for oseltamivir.

- **Location:** NMC San Diego (N=7), NH Pensacola (N=6), NMC Camp Lejeune (N=5), WRNMMC (N=5), and NH Jacksonville (N=3) had the highest number of dispensed antivirals for the week.

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

### Top MTFs, Dispensed Antivirals, Week 43

<table>
<thead>
<tr>
<th>MTF</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMC SAN DIEGO</td>
<td>7</td>
</tr>
<tr>
<td>NH PENSACOLA</td>
<td>6</td>
</tr>
<tr>
<td>NMC CAMP LEJEUNE</td>
<td>5</td>
</tr>
<tr>
<td>WALTER REED NATL Mil MED CNTR</td>
<td>5</td>
</tr>
<tr>
<td>NH JACKSONVILLE</td>
<td>3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>MTF</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH JACKSONVILLE</td>
<td>25</td>
</tr>
<tr>
<td>NH PENSACOLA</td>
<td>25</td>
</tr>
<tr>
<td>NMC SAN DIEGO</td>
<td>24</td>
</tr>
<tr>
<td>NMC CAMP LEJEUNE</td>
<td>21</td>
</tr>
<tr>
<td>NMC PORTSMOUTH</td>
<td>12</td>
</tr>
<tr>
<td>WALTER REED NATL Mil MED CNTR</td>
<td>12</td>
</tr>
<tr>
<td>NH CAMP PENDLETON</td>
<td>9</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 42)

- **All outpatient:** Influenza-like illness (ILI) activity is low. The percentage of outpatient medical encounters due to ILI was 2.4% in Week 42, below the surveillance threshold of 4.5%.

- **Note:** ILI activity is used to indicate the burden of ILI on healthcare resources.

Data source: CAPER

### Medical Event Reports (MER)

- **No MERs for an influenza-associated hospitalization were reported to DRSi this week.**

- **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>Week 43</th>
<th>Match to Surveillance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Season</th>
<th>Match to Surveillance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

### Outpatient Medical Encounters due to ILI, Week 42

**ILI% 2018 - 2019 Baseline**

**Surveillance Threshold**

**Week**

**0%**

**2%**

**4%**

**6%**

**8%**

**Week 43**

**Season**

**1**

**100.0%**

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

NMC PHC-EDC-TR-486-2018
Week 43: Page 3 of 4
DON Active Duty and Recruits

- **AD Laboratory Cases**: 6 laboratory-positive cases were identified among AD Sailors (N=2) and Marines (N=4).
- **AD Dispensed Antivirals**: 6 dispensed antivirals were identified among AD Sailors (N=2) and Marines (N=4).
- **Recruits**: No laboratory-positive cases or dispensed antivirals were identified among recruits.
- **Location (Active Duty)**: Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NHC Cherry Point (N=2), NMC Camp Lejeune (N=1), NH Guam-Agana (N=1), NH Pensacola (N=1), and NHC Quantico (N=1).
- **Location (Recruits)**: No laboratory-positive cases occurred among recruit Sailors or Marines.
- **Vaccination Status**: One AD laboratory-positive cases (16.7%) had a vaccination record less 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

<table>
<thead>
<tr>
<th></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 43</td>
<td>Season</td>
</tr>
<tr>
<td><strong>Total Cases</strong></td>
<td>6</td>
<td>31</td>
</tr>
<tr>
<td><strong>Navy AD</strong></td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td><strong>Marine Corps AD</strong></td>
<td>4</td>
<td>15</td>
</tr>
<tr>
<td><strong>Navy Recruit</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Marine Corps Recruit</strong></td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

- The CDC is reporting low levels of influenza activity for the US during week 42. [Details.](#)
- A study in *Clinical Infectious Diseases* examined the relationship between statin use and influenza vaccine effectiveness (VE) among adults age 45 and older. The authors conclude that stain use did not affect VE. [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, J18, J18.1, J18.8, J18.9, J20.9, J40, R05, R05.9
- The "Overall Burden" and ILI figures are lagged one week due to encounter data availability.
- Prepared by the EpiData Center on 30OCT18.