**Weekly Highlights**

- Overall influenza activity in the DON is **elevated**.
- Laboratory-positive cases are **elevated** and the trend has remained the same 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 laboratory-positive cases (N=1) is **low**, while inpatient activity for dispensed antivirals is (N=13) is **normal**.
- Of the 347 cases, 21 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>N 347</td>
<td>Elevated</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 471</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 3.8</td>
<td>Normal</td>
</tr>
</tbody>
</table>

**Severity**

| Inpatient Laboratory Cases       | N 1   | Low            |
| Inpatient Dispensed Antivirals   | N 13  | Normal         |

**Active Duty and Recruits**

| Active Duty Laboratory Cases     | N 77  | Elevated       |
| Active Duty Dispensed Antivirals | N 84  | Normal         |
| Recruit Laboratory Cases         | N 2   | Low            |
| Recruit Dispensed Antivirals     | N 1   | Low            |

**Overall Burden (Data Lagged, Week 11)**

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

Summary for Week 11:
- Total Cases: 10455
- % in Lab: 50.4
- % in Pharmacy: 65.5
- % in Encounters: 54.7

**Supporting Surveillance**

**DOD Seasonal Influenza Surveillance Summary (AFHSB)**

Week 11 highlights:
- Influenza A/H3N2 has become the predominant flu subtype in Northcom in Week 11.
- Flu activity has declined in several states.
- Access the full report [here](#).
- **Burden:** Laboratory-positive influenza cases (N=347) are elevated and above the seasonal threshold. While the trend over the past two weeks has remained the same, the number of laboratory-positive cases has decreased from the prior week by 34.2%.
- **Specimens:** Overall percent positivity is 26.2%, with 92.2% of cases identified as influenza A.
- **Severity:** One inpatient laboratory-positive cases case was identified in a spouse (N=1).
- **Age:** Children ages 5-17 had the highest rate of laboratory-positive influenza cases at 35.9 cases per 100,000 persons, while children ages 1-4 had the second highest rate at 34.8 cases per 100,000 persons.
- **Location:** NHC Lemoore (N=41), NH Camp Pendleton (N=35), NMC San Diego (N=28), and Walter Reed Natl Mil Med Cntr (N=23) 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 Inpatient Laboratory Cases (Severity)**

**Top MTFs, Laboratory-Positive Cases, Week 12**

- NHC LEMOORE: 41
- NH CAMP PENDLETON: 35
- NMC SAN DIEGO: 28
- WALTER REED NATL MIL MED CNTR: 23
- NMC CAMP LEJEUNE: 20
- NMC PORTSMOUTH: 20

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

- NMC CAMP LEJEUNE: 431
- NH JACKSONVILLE: 383
- NMC SAN DIEGO: 338
- NH CAMP PENDLETON: 334
- NMC PORTSMOUTH: 305
- FT BELVOIR COMMUNITY HOSP-FRCH: 265

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

Week 12: Page 2 of 4
Antiviral Surveillance

- **Burden:** Dispensed antivirals (N=471) 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 decreased from the prior week by 32.3%.
- **Severity:** 13 inpatient dispensed antivirals were identified in sponsors (N=7), spouses (N=4), and children (N=2).
- All dispensed AVs were for oseltamivir.
- **Location:** NMC Portsmouth (N=65), Walter Reed Natl Mil Med Cntr (N=43), NH Camp Pendleton (N=41), NHC Lemoore (N=40), and NH Pensacola (N=39) had the highest number of dispensed antivirals for the week.

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

### Top MTFs, Dispensed Antivirals, Week 12

<table>
<thead>
<tr>
<th>MTF</th>
<th>Dispensed Antivirals</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMC PORTSMOUTH</td>
<td>65</td>
</tr>
<tr>
<td>WALTER REED NATL</td>
<td>43</td>
</tr>
<tr>
<td>NH CAMP PENDLETON</td>
<td>41</td>
</tr>
<tr>
<td>NHC LEMOORE</td>
<td>40</td>
</tr>
<tr>
<td>NH PENSACOLA</td>
<td>39</td>
</tr>
<tr>
<td>NMC SAN DIEGO</td>
<td>35</td>
</tr>
<tr>
<td>NMC PATEKENT RIVER</td>
<td>22</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>MTF</th>
<th>Dispensed Antivirals</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH PENSACOLA</td>
<td>972</td>
</tr>
<tr>
<td>NMC PORTSMOUTH</td>
<td>900</td>
</tr>
<tr>
<td>NMC SAN DIEGO</td>
<td>577</td>
</tr>
<tr>
<td>NH JACKSONVILLE</td>
<td>428</td>
</tr>
<tr>
<td>NMC CAMP LEJEUNE</td>
<td>422</td>
</tr>
<tr>
<td>NH CAMP PENDLETON</td>
<td>382</td>
</tr>
<tr>
<td>WALTER REED NATL</td>
<td>333</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### Influenza-Like Illness (Data Lagged, Week 11)

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.8% in Week 11, 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)

- 8 MERs for an influenza-associated hospitalization were reported to DRSi this week.
- 4 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>Week</th>
<th>MER</th>
<th>Match to Surveillance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td></td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Week 12</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>Season</td>
<td>104</td>
<td>84</td>
</tr>
</tbody>
</table>

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DON Active Duty and Recruits

- **AD Laboratory Cases:** 77 laboratory-positive cases were identified among AD Sailors (N=53) and Marines (N=24).
- **AD Dispensed Antivirals:** 84 dispensed antivirals were identified among AD Sailors (N=67) and Marines (N=17).
- **Recruits:** 2 laboratory-positive cases and 1 dispensed antiviral were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at Walter Reed Natl Mil Med Cntr (N=10), NMC Camp Lejeune (N=8), NH Camp Pendleton (N=7), and NH Jacksonville (N=7).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=1), and NMC San Diego (N=1).
- **Vaccination Status:** 71 AD laboratory-positive cases (92.2%) have 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

**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, H66.93, 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, J10.5, 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, J12.9, J12.9, J18.1, J18.8, J18.9, 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 26MAR19.

### In the News

- CDC reports elevated influenza activity in 44 states and suggests that the season may last longer than usual. [Details.](#)
- Scientists have made recent developments in creating a targeted treatment approach against influenza A. [Details.](#)