Weekly Highlights

- 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 remained the same over the prior two weeks.
- Inpatient activity for both laboratory-positive cases (N=0) and inpatient dispensed antivirals (N=4) is **low**.
- Recruit dispensed antivirals are **elevated**.

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 112</td>
<td>Normal</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 171</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 3.3</td>
<td>Normal</td>
</tr>
</tbody>
</table>

**Severity**

- Inpatient Laboratory Cases: N 0 — **Low**
- Inpatient Dispensed Antivirals: N 4 — **Low**

**Active Duty and Recruits**

- Active Duty Laboratory Cases: N 28 — **Normal**
- Active Duty Dispensed Antivirals: N 40 — **Normal**
- Recruit Laboratory Cases: N 4 — **Normal**
- Recruit Dispensed Antivirals: N 5 — **Elevated**

Overall Burden (Data Lagged, Week 47)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)

- Laboratory-confirmed cases and dispensed antiviral prescriptions among all beneficiaries were at normal levels during week 47.
- The majority of laboratory-confirmed influenza cases continued to be type B.
- Access the full report [here](#).

Data from NH Oak Harbor, NH Bremerton, NHC Lamoore, AMC Madigan, AHC Monterey, AHC Fairchild, Mountain Home AFH, and Travis AFB are not captured due to the transition to MHS GENESIS.
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases (N=112) are normal 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 45.1%.

- **Specimens:** Overall percent positivity is 13.1%, with 67.5% of cases identified as influenza B.

- **Severity:** There were no inpatient laboratory-positive cases identified.

- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 10.4 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 10.1 cases per 100,000 persons.

- **Location:** NH Jacksonville (N=18), NH Twentynine Palms (N=15), NMC Camp Lejeune (N=13), James A Lovell FHCC (N=9), and NH Pensacola (N=8) 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)**

![Graph showing inpatient laboratory cases by severity and week.](image)

**Top MTFs, Laboratory-Positive Cases, Week 48**

<table>
<thead>
<tr>
<th>MTF</th>
<th>Week 48</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH Jacksonville</td>
<td>18</td>
</tr>
<tr>
<td>NH Twentynine Palms</td>
<td>15</td>
</tr>
<tr>
<td>NMC Camp Lejeune</td>
<td>13</td>
</tr>
<tr>
<td>James A Lovell FHCC</td>
<td>9</td>
</tr>
<tr>
<td>NH Pensacola</td>
<td>8</td>
</tr>
<tr>
<td>NMC San Diego</td>
<td>7</td>
</tr>
<tr>
<td>NH Camp Pendleton</td>
<td>6</td>
</tr>
</tbody>
</table>

**Top MTFs, Laboratory-Positive Cases, 2019 - 2020 Season**

<table>
<thead>
<tr>
<th>MTF</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>James A Lovell FHCC</td>
<td>197</td>
</tr>
<tr>
<td>NMC Camp Lejeune</td>
<td>116</td>
</tr>
<tr>
<td>NH Pensacola</td>
<td>108</td>
</tr>
<tr>
<td>NH Jacksonville</td>
<td>107</td>
</tr>
<tr>
<td>NH Twentynine Palms</td>
<td>96</td>
</tr>
<tr>
<td>NH Camp Pendleton</td>
<td>56</td>
</tr>
<tr>
<td>NMC San Diego</td>
<td>34</td>
</tr>
</tbody>
</table>

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**DON Laboratory-Positive Influenza Cases and Seasonal Baseline, 2019 - 2020 Season**

![Graph showing weekly laboratory-positive cases and seasonal threshold.](image)

**DON Laboratory-Positive Cases, Seasonal Comparison, 2014-2019**

![Graph showing seasonal comparison of laboratory-positive cases.](image)

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

![Graph showing percentage of specimens by type.](image)

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

![Graph showing case rates by age group.](image)

*Note: Season counts are since Week 37.*
**Antiviral Surveillance**

- **Burden:** Dispensed antivirals (N=171) 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 25%.

- **Severity:** 4 inpatient dispensed antivirals were identified in spouses (N=2), a child (N=1), and a sponsor (N=1).

- **Location:** NH Pensacola (N=32), NH Jacksonville (N=25), NMC Portsmouth (N=21), NH Twentynine Palms (N=17), and NMC San Diego (N=12) had the highest number of dispensed antivirals for the week.

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

**Top MTFs, Dispensed Antivirals, 2019 - 2020 Season**

**Don Influenza Specific Antiviral Prescriptions and Seasonal Baseline, 2019 - 2020 Season**

**DON Inpatient Dispensed Antivirals (Severity)**

**Influenza-Like Illness (Data Lagged, Week 47)**

- **All outpatient:** Influenza-like illness (ILI) activity is normal. The percentage of outpatient medical encounters due to ILI was 3.3% in Week 47, below the surveillance threshold of 4.1%.

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

Data source: CAPER

**Outpatient Medical Encounters due to ILI, Week 47**

**Outpatient Antiviral Prophylaxis**

- **Treatment:** The majority (88.1%) of antiviral prescriptions in Week 48 were for treatment of influenza or influenza symptoms.

- **Prophylaxis:** 11.9% (N=20) of antiviral prescriptions in Week 48 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

**Outpatient Antiviral Prophylaxis Prescriptions**

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

NMCPHC-EDC-TR-578-2019
Week 48: Page 3 of 4
**DON Active Duty and Recruits**

- **AD Laboratory Cases:** 28 laboratory-positive cases were identified among AD Sailors (N=10) and Marines (N=18).
- **AD Dispensed Antivirals:** 40 dispensed antivirals were identified among AD Sailors (N=24) and Marines (N=16).
- **Recruits:** 4 laboratory-positive cases and 5 dispensed antivirals were identified among recruits.
- **Location (Active Duty):** Laboratory-positive cases among active duty Sailors or Marines occurred most frequently at NMC Camp Lejeune (N=8), NH Twenty nine Palms (N=4), James A Lovell FHCC (N=3), and NHC Cherry Point (N=3).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at James A Lovell FHCC (N=4).
- **Vaccination Status:** 10 AD laboratory-positive cases (35.7%) 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, 2019 - 2020 Season

<table>
<thead>
<tr>
<th>Week</th>
<th>Navy</th>
<th>Navy Baseline</th>
<th>Marine Corps</th>
<th>Marine Corps Baseline</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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<tr>
<td>13</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>17</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

### In the News

- One influenza-associated pediatric death was reported to CDC during week 47. [Details.](#)
- A study out of Australia demonstrates more severity from the H1N1 flu strain compared with H3N2 in hospitalized patients. [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, Bremerton, and Lemoore; AMC Madigan and AHC Monterey; and Fairchild, Mt. Home and Travis AFB are not captured due to transition to MHS GENESIS.
- 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, J10.8, J10.81, J10.82, J10.83, J10.89, J11, J11.0, J11.00, J11.08, J11.1, J11.12, 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, R50.9
- The “Overall Burden” and ILI figures are lagged one week due to encounter data availability.
- Prepared by the EpiData Center on 03DEC19.