**Influenza Situation Report: 2019 - 2020 Season**
**Department of the Navy**

**Week 3 (January 12 - January 18, 2020)**

### Weekly Highlights
- Overall influenza activity in the DON is **normal**.
- Laboratory-positive cases and dispensed antivirals are **normal** and the trend has remained the same over the prior 2 weeks. The percent of outpatient visits for ILI are **elevated** and the trend has remained the same over the prior 2 weeks.
- Inpatient activity for both laboratory-positive cases (N=3) and inpatient dispensed antivirals (N=28) is **normal**.
- Recruit laboratory-positive cases are **elevated** (N=18), with 11 cases identified at NH Beaufort.

### 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 331</td>
<td></td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>N 452</td>
<td></td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>% 4.3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Severity</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>N 3</td>
<td>Normal</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>N 28</td>
<td>Normal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active Duty and Recruits</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>N 89</td>
<td>Normal</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>N 89</td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>N 18</td>
<td>Elevated</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>N 5</td>
<td>Normal</td>
</tr>
</tbody>
</table>

### Overall Burden (Data Lagged, Week 2)

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

**Supporting Surveillance**

- **DOD Seasonal Influenza Surveillance Summary (AFHSB)**
  - Week 2 highlights:
    - Influenza B continued to predominate in NORTHCOM.
    - Access the full report [here](#).

Data from NH Oak Harbor, NH Bremerton, NHC Lemoore, 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=331) 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 20.2%.

- **Specimens:** Overall percent positivity is 32.3%, with 55.8% of cases identified as influenza A.

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

- **Age:** Children ages 0-4 had the highest rate of laboratory-positive influenza cases at 27.2 cases per 100,000 persons, while children ages 5-17 had the second highest rate at 25.5 cases per 100,000 persons.

- **Location:** NMC San Diego (N=46), NH Jacksonville (N=36), NH Camp Pendleton (N=35), NMC Camp Lejeune (N=17), and NH Beaufort (N=17) 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.
**Antiviral Surveillance**

- **Burden:** Dispensed antivirals (N=452) 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 10.1%.
- **Severity:** 28 inpatient dispensed antivirals were identified in sponsors (N=16), children (N=6), and spouses (N=6).
- **Types:** All dispensed AVs were for oseltamivir.
- **Location:** NMC San Diego (N=72), NH Jacksonville (N=39), NH Pensacola (N=33), NMC Portsmouth (N=33), and NH Camp Pendleton (N=26) had the highest number of dispensed antivirals for the week.

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

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**Top MTFs, Dispensed Antivirals, Week 3**

<table>
<thead>
<tr>
<th>MTF</th>
<th>Dispensed Antivirals</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMC SAN DIEGO</td>
<td>72</td>
</tr>
<tr>
<td>NH JACKSONVILLE</td>
<td>39</td>
</tr>
<tr>
<td>NH PENSACOLA</td>
<td>33</td>
</tr>
<tr>
<td>NMC PORTSMOUTH</td>
<td>33</td>
</tr>
<tr>
<td>NH CAMP PENDLETON</td>
<td>29</td>
</tr>
<tr>
<td>NMC CAMP LEJEUNE</td>
<td>21</td>
</tr>
<tr>
<td>WALTER REED NATL. MIL MED CMTR</td>
<td>21</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>MTF</th>
<th>Dispensed Antivirals</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH PENSACOLA</td>
<td>452</td>
</tr>
<tr>
<td>NMC PORTSMOUTH</td>
<td>434</td>
</tr>
<tr>
<td>NMC SAN DIEGO</td>
<td>390</td>
</tr>
<tr>
<td>NH JACKSONVILLE</td>
<td>219</td>
</tr>
<tr>
<td>NH CAMP PENDLETON</td>
<td>209</td>
</tr>
<tr>
<td>NMC CAMP LEJEUNE</td>
<td></td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

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**Influenza-Like Illness (Data Lagged, Week 2)**

- **All outpatient:** Influenza-like illness (ILI) activity is elevated. The percentage of outpatient medical encounters due to ILI was 4.3% in Week 2, above the surveillance threshold of 4.1%.
- **Note:** ILI activity is used to indicate the burden of ILI on healthcare resources.

Data source: CAPER

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**Outpatient Medical Encounters due to ILI, Week 2**

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

**DON Inpatient Dispensed Antivirals (Severity)**

- **Treatment:** The majority (87.1%) of antiviral prescriptions in Week 3 were for treatment of influenza or influenza symptoms.
- **Prophylaxis:** 12.9% (N=55) of antiviral prescriptions in Week 3 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

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**Outpatient Antiviral Prophylaxis Prescriptions**

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Navy and Marine Corps Public Health Center

NMCPSHC-EDC-TR-041-2020
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DON Active Duty and Recruits

- **AD Laboratory Cases:** 89 laboratory-positive cases were identified among AD Sailors (N=62) and Marines (N=27).
- **AD Dispensed Antivirals:** 89 dispensed antivirals were identified among AD Sailors (N=73) and Marines (N=16).
- **Recruits:** 18 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 San Diego (N=14), NH Jacksonville (N=13), and NH Camp Pendleton (N=12).
- **Location (Recruits):** Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=11), NMC San Diego (N=3), NH Twentynine Palms (N=2), and NH Camp Pendleton (N=2).
- **Vaccination Status:** 80 AD laboratory-positive cases (89.9%) had a vaccination record more than fourteen days prior to infection.

Data Sources: HL7-formatted CHCS chemistry, microbiology and pharmacy databases, MRRS and ITS.

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**Laboratory-Positive Cases Among DON Active Duty Service Members, 2019 - 2020 Season**

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**In the News**

- The CDC reports that while influenza activity declined slightly, it remains high across the US.

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**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, 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, J10.10, 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, R50.9
- The “Overall Burden” and ILI figures are lagged one week due to encounter data availability.
- Prepared by the EpiData Center on 22JAN20.