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

Week 15 (April 5 - April 11, 2020)

Weekly Highlights

- Overall influenza activity in the DON is low.
- Laboratory-positive cases and dispensed antivirals are low and the trend has decreased over the prior 2 weeks.
- Inpatient activity for both laboratory-positive cases (N=0) and inpatient dispensed antivirals (N=1) is low.
- The percent of outpatient visits for ILI are elevated and the trend has remained the same over the prior 2 weeks. The COVID-19 pandemic may affect healthcare seeking behavior, impacting ILI levels.

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>Elevated</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Severity</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Inpatient Laboratory Cases</td>
<td>◄►</td>
<td>Low</td>
</tr>
<tr>
<td>Inpatient Dispensed Antivirals</td>
<td>◄►</td>
<td>Low</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Active Duty and Recruits</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>▼</td>
<td>Normal</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>◄►</td>
<td>Low</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>◄►</td>
<td>Normal</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>◄►</td>
<td>Low</td>
</tr>
</tbody>
</table>

Overall Burden (Data Lagged, Week 14)

DON Total Influenza Cases from Laboratory, Pharmacy and Encounter Data

Active Duty Vaccination Rates, 13 APR 2020

<table>
<thead>
<tr>
<th></th>
<th>DON Goal = 90% (by 15 Dec 2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>US Fleet Forces</td>
<td>97.8%</td>
</tr>
<tr>
<td>Navy Active Duty</td>
<td>95.2%</td>
</tr>
<tr>
<td>Marine Corps Active Duty</td>
<td>95.8%</td>
</tr>
</tbody>
</table>

Supporting Surveillance

DOD Seasonal Influenza Surveillance Summary (AFHSB)
Week 15 highlights:

- Influenza activity continued to decrease among beneficiaries to low activity levels.
- ILI activity decreased slightly, but remained high.
- 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.

Prepared by the EpiData Center | email | web
Navy and Marine Corps Public Health Center
NMCPHC-EDC-TR-139-2020
Week 15: Page 1 of 4
• **Burden:** Laboratory-positive influenza cases (N=29) are low and below the seasonal threshold. The trend over the past two weeks has decreased. The number of laboratory-positive cases decreased from the prior week by 50%.

• **Specimens:** Overall percent positivity is 3.3%, with 80.0% of cases identified as influenza A.

• **Severity:** No inpatient laboratory-positive cases were identified.

• **Age:** Adults ages 18-44 had the highest rate of laboratory-positive influenza cases at 1.9 cases per 100,000 persons, while children ages 0-4 had the second highest rate at 1.3 cases per 100,000 persons.

• **Location:** NMC Camp Lejeune (N=14), and NH Beaufort (N=9) 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=22) are low and below the seasonal threshold. The trend over the past two weeks has decreased. The number of dispensed antivirals decreased from the prior week by 45%.
- **Severity:** One inpatient dispensed antiviral case was identified in a spouse (N=1).
- **Types:** Dispensed AVs consisted of 1 baloxavir and 21 oseltamivir.
- **Location:** NHC Hawaii (N=4), NMC Camp Lejeune (N=4), and AF-H-633rd MEDGRP JBLE-Langley(N=2) had the highest number of dispensed antivirals for the week.

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

Top MTFs, Dispensed Antivirals, Week 15

![Bar chart showing top MTFs for dispensed antivirals for Week 15]

Top MTFs, Dispensed Antivirals, 2019 - 2020 Season

![Bar chart showing top MTFs for dispensed antivirals for the 2019-2020 season]

Influenza-Like Illness (Data Lagged, Week 14)

- **All outpatient:** Influenza-like illness (ILI) activity is elevated. The percentage of outpatient medical encounters due to ILI was 4.1% in Week 14, comparable to 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 14

![Chart showing percentage of outpatient medical encounters due to ILI]

Outpatient Antiviral Prophylaxis

- **Treatment:** The majority (85.0%) of antiviral prescriptions in Week 15 were for treatment of influenza or influenza symptoms.
- **Prophylaxis:** 15.0% (N=3) of antiviral prescriptions in Week 15 were for prevention of influenza or influenza symptoms.

Data source: HL7-formatted CHCS pharmacy databases

![Chart showing outpatient antiviral prophylaxis prescriptions]

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Navy and Marine Corps Public Health Center
DON Active Duty and Recruits

- **AD Laboratory Cases**: 10 laboratory-positive cases were identified among AD Sailors (N=3) and Marines (N=7).
- **AD Dispensed Antivirals**: 4 dispensed antivirals were identified among AD Sailors (N=2) and Marines (N=2).
- **Recruits**: 3 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 NMC Camp Lejeune (N=6), NH Beaufort (N=3), and NH Okinawa (N=1).
- **Location (Recruits)**: Laboratory-positive cases among recruit Sailors or Marines occurred most frequently at NH Beaufort (N=3).
- **Vaccination Status**: 10 AD laboratory-positive cases (100.0%) 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></th>
<th>Laboratory</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 15</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>13</td>
<td>2,851</td>
</tr>
<tr>
<td>Navy AD</td>
<td>3</td>
<td>1,536</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>7</td>
<td>935</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>0</td>
<td>210</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>3</td>
<td>170</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- The CDC is reporting that laboratory confirmed flu activity as reported by clinical laboratories continues to decrease sharply and is now low in Week 14. [Details.]
- A new effort led by the Center for Infectious Disease Research and Policy (CIDRAP), has been highlighted in a paper in Current Opinion in Virology to track development of universal influenza vaccine technologies. [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, 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, J18.1, 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 13APR20.