### Weekly Highlights

- Overall influenza activity in the DON is **normal**.
- Laboratory-positive cases, dispensed antivirals, and the percentage of outpatient visits for ILI are **normal**.

### Active Duty Vaccination Rates, 04 JUNE 2018

<table>
<thead>
<tr>
<th>Service</th>
<th>Goal</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Corps Active Duty</td>
<td>90% (by 15 Dec 2017)</td>
<td>97.5%</td>
</tr>
<tr>
<td>Navy Active Duty</td>
<td></td>
<td>96.7%</td>
</tr>
<tr>
<td>US Fleet Forces</td>
<td></td>
<td>98.4%</td>
</tr>
</tbody>
</table>

### Influenza Surveillance Indicators

#### Overview

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Cases</td>
<td>↓</td>
<td>Normal</td>
</tr>
<tr>
<td>Dispensed Antivirals</td>
<td>↓</td>
<td>Normal</td>
</tr>
<tr>
<td>ILI Outpatient Visits</td>
<td>↑</td>
<td>Low</td>
</tr>
</tbody>
</table>

#### Severity

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Activity Level</th>
</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>

#### Active Duty and Recruits

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Trend</th>
<th>Activity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty Laboratory Cases</td>
<td>↓</td>
<td>Low</td>
</tr>
<tr>
<td>Active Duty Dispensed Antivirals</td>
<td>↓</td>
<td>Low</td>
</tr>
<tr>
<td>Recruit Laboratory Cases</td>
<td>↔</td>
<td>Low</td>
</tr>
<tr>
<td>Recruit Dispensed Antivirals</td>
<td>↑</td>
<td>Normal</td>
</tr>
</tbody>
</table>

### Overall Burden (Data Lagged, Week 21)

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

- **Summary for Week 21**
  - Total Cases: 39
  - % in Laboratory: 15.4
  - % in Pharmacy: 41.9
  - % in Encounters: 56.4

### Supporting Surveillance

**DOD Global Respiratory Pathogen Surveillance (USAFSAM)**

- Week 20-21 highlights:
  - Two influenza B positive specimens were identified in Week 20.
  - Access the full report [here](#).

**Operational Infectious Diseases (OID) Weekly Surveillance Report (NHRC)**

- 31 MAY 2018 report highlights:
  - Seven A/H3 influenza cases were detected on a US Navy ship in Bahrain during January and February.
  - Access the full report [here](#).
Laboratory Surveillance

- **Burden:** Laboratory-positive influenza cases are normal and continue to decrease.
- **Specimens:** Overall percent positivity is 0.9%.
- **Severity:** No inpatient laboratory cases were identified.
- **Age:** Rates for all age groups were low. One case was in a child 0-4 years of age, one case was in an adult 45 years or older.
- **Location:** Cases occurred at Ft Belvoir Community Hosp-Fbch and NH Guam-Agana (N=1).

Data sources: HL7-formatted CHCS chemistry and microbiology databases. Denominators for rates are from M2 enrollment records.

DON Inpatient Laboratory Cases (Severity)

DON Laboratory-Positive Influenza Cases and Seasonal Baseline, 2017 - 2018 Season

DON Laboratory-Positive, Seasonal Comparison, 2012-2018

DON Laboratory-Positive Influenza Specimens, by Type

DON Laboratory-Positive Case Rates by Age Group

Top MTFs, Laboratory-Positive Cases, Week 22

Top MTFs, Laboratory-Positive Cases, 2017 - 2018 Season

Note: Season counts are since Week 37.
Antiviral Surveillance

- **Burden:** Dispensed AVs (N=12) are normal and comparable to baseline levels. Dispensed AVs have continued to decrease.
- **Severity:** No inpatient AVs were dispensed this week.
- **Types:** All dispensed AVs were for Oseltamivir.
- **Location:** James A Lovell FHCC (N=2) and NH Beaufort (N=2) had the highest number of dispensed antivirals for the week. Eight other facilities dispensed one antiviral each.

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

Top MTFs, Dispensed Antivirals, Week 22

- **James A Lovell FHCC:** 2
- **NH Beaufort:** 2

Top MTFs, Dispensed Antivirals, Season 2017 - 2018

- **NH Pensacola:** 2169
- **NMC San Diego:** 1606
- **NMC Portsmouth:** 1416
- **NH Jacksonville:** 1176
- **NH Camp Pendleton:** 892
- **Walter Reed Natl ML MED CTR:** 704
- **NH Camp Lejeune:** 639

Note: Season counts are since Week 37.

Influenza-Like Illness (Data Lagged, Week 21)

- **All outpatient:** ILI activity is low. The percentage of outpatient medical encounters due to ILI was 3.1% in Week 21, below the surveillance threshold of 4.8%.
- **Location:** ILI activity was the highest at James A Lovell FHCC (6.0%), NHC Hawaii (4.1%), and NH Jacksonville (4.0%).

Data source: CAPER

Outpatient Medical Encounters due to ILI, Week 21

- **James A Lovell FHCC:** 6.0%
- **NHC Hawaii:** 4.1%
- **NH Jacksonville:** 4.0%
- **NH Twenty Nine Palms:** 3.9%
- **NH Guam Agana:** 3.9%

*Data lagged by one week.*
Active Duty and Recruits

- **AD Laboratory Cases**: No laboratory-positive cases among AD Sailors or Marines.
- **AD Dispensed Antivirals**: No AVs dispensed among AD Sailors or Marines (N=0).
- **Recruits**: No laboratory-positive cases and 2 dispensed antivirals among recruits.

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

Laboratory-Positive Cases Among Active Duty Service Members, 2017 - 2018

Summary of Active Duty and Recruit Cases

<table>
<thead>
<tr>
<th>Laboratory Positive Cases</th>
<th>Dispensed AVs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 22</td>
<td>Season</td>
</tr>
<tr>
<td>Total Cases</td>
<td>0</td>
</tr>
<tr>
<td>Navy AD</td>
<td>0</td>
</tr>
<tr>
<td>Marine Corps AD</td>
<td>0</td>
</tr>
<tr>
<td>Navy Recruit</td>
<td>0</td>
</tr>
<tr>
<td>Marine Corps Recruit</td>
<td>0</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

In the News

- The CDC reports that influenza activity in the United States continues to decrease. The hospitalization rate for the current season exceeds that of the 2014-2015 season. Details.

Medical Event Reports (MER)

**MERs for Influenza-Associated Hospitalizations**

<table>
<thead>
<tr>
<th>Week</th>
<th>N</th>
<th>Match to Surveillance Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>0</td>
<td>-</td>
</tr>
<tr>
<td>Season</td>
<td>99</td>
<td>76</td>
</tr>
</tbody>
</table>

*Indicates MERs that matched to cases from laboratory or pharmacy surveillance data.

Data Sources: HL7-formatted CHCS chemistry and microbiology databases

Bacterial Coinfections

- **Summary**: 3.8% of laboratory-positive influenza cases had a bacterial coinfection identified this season.
- **Upper-respiratory**: 281 upper-respiratory infections have been identified among 271 cases, as *Streptococcus* (N=276), *Staphylococcus* (N=4), *Haemophilus* (N=1)
- **Lower-respiratory**: 33 lower respiratory infections have been identified as *Staphylococcus* (N=10), *Haemophilus* (N=4), *Serratia* (N=3), *Streptococcus* (N=3), *Stenotrophomonas* (N=2), *Enterococcus* (N=2), *Pseudomonas* (N=2), *Corynebacterium* (N=2), *Neisseria* (N=1), *Klebsiella* (N=1), *Enterobacter* (N=1), *Escherichia* (N=1), and *Pantoea* (N=1).

Data Sources: HL7-formatted CHCS chemistry and microbiology databases

Bacterial Coinfections as a Percent of Laboratory Cases

<table>
<thead>
<tr>
<th>Coinfections</th>
<th>Lab Cases w/ Coinfection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper (N)</td>
<td>Lower (N)</td>
</tr>
<tr>
<td>Current Season</td>
<td>271</td>
</tr>
<tr>
<td>Baseline</td>
<td>140</td>
</tr>
</tbody>
</table>

Note: Season counts are since Week 37.

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 a weighted average of the 2014-2015, 2015-2016 and 2016-2017 seasons.
- The “Overall Burden” and ILI figures are lagged one week due to encounter data availability.
- AV surveillance no longer captures Amantadine as of 07 Nov 2017.
- All figures prepared by the EpiData Center on 06JUN18

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