Overall Summary
Laboratory, pharmacy, and influenza-like-illness trends are below baseline. Impact for active duty personnel remains minimal and vaccination continues to increase week to week.

Influenza Activity and Surveillance

Laboratory
Eight laboratory positive influenza cases were identified during Week 50, below baseline. [Details]

Antivirals (AVs)
46 AV medications were dispensed in Week 50, below baseline. [Details]

Influenza-Like Illness (ILI)
Overall, 4.3% of outpatient medical encounters were due to ILI, below baseline. [Details]

Severity Indicators

Inpatient
This week, one inpatient laboratory positive case and five inpatient antiviral prescriptions were identified. There was one inpatient case reported to DRSi. [Details]

Coinfections
Two bacterial coinfections were identified among laboratory positive cases during Week 50. [Details]

Select Populations

Active Duty and Recruits
In Week 50, no laboratory positive cases and 11 dispensed AV prescriptions were among active duty personnel. There was one AV prescription dispensed to recruits. [Details]

NHRC reports febrile respiratory illness (FRI) rates were at or below expected values during Week 49 at MCRD San Diego, MCRD Parris Island, and NRTC Great Lakes. [Details]

Children
The rate of influenza positive laboratory cases and influenza specific AV prescriptions in children remains low. [Details]

Active Duty Vaccination Rates
Navy: 89.9%
Marine Corps: 86.5%
US Fleet Forces: 96.2%

View Table
Data source: MRRS, current as of 21 Dec 2015.
Influenza Activity and Surveillance

Overall Burden
The estimated burden of influenza across the DON combines three major sources of data: certified laboratory results, antiviral pharmacy transactions, and medical encounters with influenza-specific diagnoses.
- During Week 50, there were 61 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (64.6%). One case was identified in all three sources.
- Since Week 40, there have been 610 DON cases identified in at least one of the three data sources.

Laboratory Cases
- Eight laboratory positive influenza cases were identified during Week 50 (seven type A, one type B), below baseline estimates.
- Two cases during Week 50 were identified at Camp Lejeune and one each at NH Camp Pendleton, NH Lemoore, NMC San Diego, NH Twentynine Palms, ACH Leonard Wood, and NH Yokosuka.
- Since Week 40, 80 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NMC San Diego (12), NH Lemoore (11), NH Camp Lejeune (10), and NHC Hawaii (7).

Specimen Positivity
- 1.9% of all influenza specimens tested during Week 50 were positive, lower than last season (25.9%).
- When grouped by parent facility, nine (32.1%) locations tested more than ten specimens; specimens from four of these facilities had positive results. NH Twentynine Palms had the highest percent positive (8.3%) during Week 50.

Antiviral Prescriptions
- 46 antiviral prescriptions were dispensed during Week 50, below baseline estimates.
- Most common facilities this week: NMC San Diego (9), NH Pensacola (5), and NMC Portsmouth (5).
- Since Week 40, the majority (97.7%) of prescriptions were for Oseltamivir.
**Syndromic Surveillance**

**Influenza-Like Illness (ILI)**
- The percent of medical encounters that included an ILI diagnosis during Week 49 (lagged due to data availability):
  - 4.3% of outpatient (below baseline)
  - 13.4% of ER (below baseline)
- When grouped by parent facility, 14 DON facilities (50.0%) experienced an increase in the proportion of outpatient ILI visits during Week 49; three facilities experienced an increase above 25% (NH Guantanamo Bay, NH Okinawa, NHC Charleston).

**Severity Indicators**

**Inpatient Laboratory**
- One (12.5%) laboratory case during Week 50 was in the inpatient setting.
- This week’s inpatient case was over the age of 45 years, identified as Type A positive at NMC San Diego.

**Inpatient Pharmacy**
- Five (10.9%) AV prescription during Week 49 was in the inpatient setting (above baseline).
- This week’s inpatient cases were 0-4 (1), 18-44 (2) and 45+ (2) years old at five different facilities.

**Influenza-Associated Hospitalization Reports**

- There was one inpatient case reported to DRSi this week; a male active duty service member age 18-44 at Branch Medical Clinic Sasebo. This case was not identified in laboratory or pharmacy surveillance.

**Bacterial Coinfections**
- During Week 50, two coinfections were identified; an inpatient lower respiratory *Klebsiella* and an outpatient upper respiratory *Streptococcus*. View Additional Details
- Though overall case counts remain low, the percent of laboratory positive cases with a coinfection this season (6.3%) is almost twice baseline with a higher proportion than expected from lower respiratory specimens.

<table>
<thead>
<tr>
<th>Coinfections by Respiratory Source, n (%)</th>
<th>Lab Cases with Bacterial Coinfection (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Respiratory</td>
<td>Lower Respiratory</td>
</tr>
<tr>
<td>Current Season (n=5)</td>
<td>2 (40.0)</td>
</tr>
<tr>
<td>2 (40.0)</td>
<td>1 (20.0)</td>
</tr>
<tr>
<td>Cumulative Baseline (n=11.3)</td>
<td>3.5 (30.9)</td>
</tr>
<tr>
<td></td>
<td>0.5 (4.4)</td>
</tr>
<tr>
<td></td>
<td>7.3 (64.7)</td>
</tr>
</tbody>
</table>

* Cumulative baseline calculated as a weighted average over three years and may not represent whole numbers.

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Active Duty
- There were no laboratory positive influenza cases among active duty service members in Week 50.
- 11 active duty service members (7 Navy, 4 Marines) were dispensed antivirals (1 amantadine, 10 oseltamivir) during Week 50; three of these were at NMC San Diego.

Recruits
- There were no laboratory positive influenza cases among recruits in Week 50.
- One recruit (Navy) was dispensed oseltamivir during Week 50 at NMC Portsmouth.

<table>
<thead>
<tr>
<th>Case Type</th>
<th>Active Duty</th>
<th>Recruits</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Navy</td>
<td>Marine Corps</td>
<td>Navy</td>
</tr>
<tr>
<td>Laboratory Positive</td>
<td>13</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>AV Prescriptions</td>
<td>78</td>
<td>29</td>
<td>2</td>
</tr>
</tbody>
</table>

Children
- The rate of laboratory positive influenza cases and AV prescriptions remains low for all age groups.
- One laboratory positive influenza cases were identified among children during Week 50, below baseline estimates for children.
  - This week’s case was a 0-4 year old child in an outpatient setting at NH Camp Lejeune.
- There were nine AVs dispensed to children during Week 50, below baseline estimates for children.
  - This week’s cases were five 0-4 year old children (all oseltamivir) and four 5-17 year old children (one amantadine, three oseltamivir).
  - There was one AV dispensed to an inpatient female Navy child 0-4 years old at NMC Portsmouth.

In the News
- A randomized clinical trial found that acetaminophen (Tylenol) had no effect on viral shedding, temperature, or clinical symptoms in influenza patients. [Details]
- The CDC reinforces best practices for vaccinations after the New Jersey DOH responded to an incident of injection safety and vaccine administration errors affecting 67 persons at an employee influenza vaccination clinic. [Details]