Overall Summary
Overall laboratory, pharmacy, and influenza-like-illness trends are below baseline. Impact among recruits returned to low levels.

Key Findings

**Influenza Activity and Surveillance**

**Laboratory**
32 laboratory positive influenza cases were identified during Week 1, below baseline. [Details]

**Antivirals (AVs)**
71 AV medications were dispensed in Week 1, below baseline. [Details]

**Influenza-Like Illness (ILI)**
Overall, 5.9% of outpatient medical encounters were due to ILI, equal to baseline. [Details]

**Severity Indicators**

**Inpatient**
This week, there was one inpatient laboratory positive case and six inpatient antiviral prescriptions. There were no inpatient cases reported to DRSi. [Details]

**Coinfections**
There were two nonrespiratory bacterial coinfections identified among laboratory positive cases during Week 1. [Details]

**Select Populations**

**Active Duty and Recruits**
In Week 1, there were three laboratory positive cases and 19 dispensed AV prescriptions among active duty personnel. Among recruits, there were eight laboratory positive cases and one dispensed AV prescription. [Details]

Most current NHRC surveillance reports febrile respiratory illness rates were at or below expected values at MCRD San Diego, MCRD Parris Island, and NRTC Great Lakes. [Details]

**Children**
The number of influenza positive laboratory cases and influenza specific AV prescriptions in children remain below baseline. [Details]

**Active Duty Vaccination Rates**
Navy: 91.7%
Marine Corps: 91.3%
US Fleet Forces: 97.4%

[View Table]
Data source: MRRS, current as of 11 Jan 2016.
**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 1, there were 101 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (54.5%). No cases were identified in all three sources.
- Since Week 40, there have been 947 DON cases identified in at least one of the three data sources.

**Laboratory Cases**

- 32 laboratory positive influenza cases were identified during Week 1 (20 type A, 11 type B, 1 type A&B); below baseline estimates.
- Most common facilities this week: NMC San Diego (19), NH Camp Pendleton (3), AMC Tripler-Shafter (3).
- Since Week 40, 158 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NMC San Diego (46), NH Lemoore (17), NH Camp Lejeune (12), and NH Camp Pendleton (10).

**Specimen Positivity**

- 7.1% of all influenza specimens tested during Week 1 were positive, lower than last season (23.1%).
- When grouped by parent facility, 13 (46.4%) locations tested more than ten specimens. Five facilities had positive results; NH Camp Pendleton (21.4%) had the highest percent positive laboratory specimens.

<table>
<thead>
<tr>
<th>Test Types among Positive Influenza Specimens, n (%)</th>
<th>Rapid</th>
<th>Culture</th>
<th>PCR</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 51</td>
<td>9 (81.8)</td>
<td>0 (0.0)</td>
<td>2 (18.2)</td>
<td>11</td>
</tr>
<tr>
<td>Week 52</td>
<td>17 (63.0)</td>
<td>1 (3.7)</td>
<td>9 (33.3)</td>
<td>27</td>
</tr>
<tr>
<td>Week 1</td>
<td>13 (37.1)</td>
<td>1 (3.7)</td>
<td>19 (54.3)</td>
<td>35</td>
</tr>
<tr>
<td>Season</td>
<td>94 (59.5)</td>
<td>18 (11.4)</td>
<td>46 (29.1)</td>
<td>158</td>
</tr>
</tbody>
</table>

**Antiviral Prescriptions**

- 71 antiviral prescriptions were dispensed during Week 1.
- Most common facilities this week: NMC San Diego (22), NH Camp Pendleton (12), NH Pensacola (9).
- Since Week 40, the majority (98.2%) of prescriptions were for Oseltamivir.

<table>
<thead>
<tr>
<th>Antiviral Medications Dispensed to DON Beneficiaries, n (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amantadine</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>Week 1</td>
</tr>
<tr>
<td>Season</td>
</tr>
</tbody>
</table>

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Syndromic Surveillance

Influenza-Like Illness (ILI)

- The percent of medical encounters that included an ILI diagnosis during Week 52 (lagged due to data availability):
  - 5.9% of outpatient (below baseline)
  - 15.0% of ER (below baseline)
- When grouped by parent facility, 24 DON facilities (85.7%) experienced an increase in the proportion of outpatient ILI visits during Week 52; four facilities experienced an increase above 50% (NH Guantanamo Bay, NH Bremerton, NH Naples, James A Lovell FHCC).

Severity Indicators

Inpatient Laboratory

- One laboratory case (3.1%) was identified in an inpatient setting during Week 1.
- This case was a child beneficiary under the age of 5, type B positive, at NMC San Diego.

Inpatient Pharmacy

- Six (8.5%) AV prescriptions were in the inpatient setting during Week 1.
- This week’s inpatient cases were two active duty service members, three family member beneficiaries, and one uncategorized sponsor.

Influenza-Associated Hospitalization Reports

- There were no inpatient cases reported to DRSi this week.

Bacterial Coinfections

- Two coinfections were identified during Week 1; an outpatient nonrespiratory Escherichia and an outpatient nonrespiratory Streptococcus. Details
- Though overall case counts remain low, the proportion of lower respiratory specimens is higher than expected.

<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=7)</td>
<td>2 (28.6)</td>
</tr>
<tr>
<td>Cumulative Baseline (n=32)</td>
<td>9.8 (30.7)</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
- Three laboratory positive influenza cases were identified among active duty service members during Week 1; these cases were identified in outpatient settings at NMC San Diego (2) and NH Twentynine Palms (1).
- 19 active duty service members (13 Navy, 6 Marines) were dispensed AVs (all oseltamivir) during Week 1; seven were at NMC San Diego and the remaining 12 at 11 different facilities.

Recruits
- There were 8 laboratory positive influenza cases among recruits during Week 1, all type A positive from an outpatient setting at NMC San Diego.
- One AV (oseltamivir) was dispensed to a recruit during Week 1 at NMC San Diego.

Children
- The rate of laboratory positive influenza cases (per 100,000) is highest among children ages 0-4 years (7.2), followed by adults 18-44 (1.88).
- The rate of AV prescriptions (per 100,000) is low for children ages 0-4 (0.4) and 5-17 (0.0) in comparison to adults 18-44 (3.1), reflected by this week’s trends in prescriptions for recruits.
- 11 laboratory positive influenza cases were identified among children during Week 1, below baseline estimates.
  - Eight children ages 0-4 were identified in outpatient settings at six different facilities and one in an inpatient setting at NMC San Diego; two children aged 5-17 were identified in outpatient settings at NMC San Diego.
  - There were 13 AVs dispensed to children during Week 1, below baseline estimates for children.
    - This week’s cases (all oseltamivir) were nine 0-4 year old children and four 5-17 year old children at seven different facilities. Two were dispensed in inpatient settings.

In the News
- Two additional laboratory confirmed cases of human infection with avian influenza A(H5N6) virus in China. [Details]
- Avian flu strikes more flocks in France, Nigeria, Taiwan. [Details]
- CDC reports outpatient visits for influenza-like illness was above the national baseline during the flu week ending January 2. [Details]