 Overall Summary
Overall laboratory, pharmacy, and influenza-like-illness trends are below baseline. Impact among active duty personnel remains minimal.

Key Findings

**Influenza Activity and Surveillance**

**Laboratory**
32 laboratory positive influenza cases were identified during Week 3, below baseline. [Details]

**Antivirals (AVs)**
76 AV medications were dispensed in Week 3, below baseline. [Details]

**Influenza-Like Illness (ILI)**
Overall, 4.1% of outpatient medical encounters were due to ILI, below baseline. [Details]

**Severity Indicators**

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

**Coinfections**
There was one nonrespiratory bacterial coinfection identified among laboratory positive cases during Week 3. [Details]

**Select Populations**

**Active Duty and Recruits**
In Week 3, there was one laboratory positive case and 12 AV prescriptions dispensed to active duty personnel. Among recruits, there were two 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: 93.0%
Marine Corps: 93.5%
US Fleet Forces: 97.9%

[View Table]
Data source: MRRS, current as of 25 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 3, there were 96 DON cases identified in one or more data sources; pharmacy captured the highest proportion of cases (65.1%). Four cases were identified in all three sources.
- Since Week 40, there have been 1,215 DON cases identified in at least one of the three data sources.

Laboratory Cases
- 32 laboratory positive influenza cases were identified during Week 3 (15 type A, 16 type B, 1 type A&B); below baseline estimates.
- Most common facilities this week: NMC San Diego (11) and NH Bremerton (5).
- Since Week 40, 187 laboratory positive cases were identified among DON beneficiaries. Top facilities thus far: NMC San Diego (73), NH Lemoore (20), NH Bremerton (15), NH Camp Lejeune (14), and NH Camp Pendleton (14).

Specimen Positivity
- 8.5% of all influenza specimens tested during Week 3 were positive, lower than last season (28.6%).
- When grouped by parent facility, 8 (28.6%) locations tested more than ten specimens. WRNMMC (20.0%), James A Lovell FHCC (16.7%), NH Bremerton (16.7%), and NH Jacksonville (14.3%) experienced the highest positivity.

| Test Types among Positive Influenza Specimens, n (%) |
|-----------------|-------------|-------------|-------------|-------------|
|                 | Rapid       | Culture     | PCR         | Total       |
| Week 1          | 14 (35.0)   | 3 (7.5)     | 23 (57.5)   | 40          |
| Week 2          | 23 (44.2)   | 4 (7.7)     | 25 (48.1)   | 52          |
| Week 3          | 21 (60.0)   | 1 (2.9)     | 13 (37.1)   | 35          |
| Season          | 139 (55.6)  | 23 (9.2)    | 88 (35.2)   | 250         |

Antiviral Prescriptions
- 76 antiviral prescriptions were dispensed during Week 3.
- Most common facilities this week: NMC San Diego (14) and NH Camp Pendleton (9).
- Since Week 40, the majority (98.4%) of prescriptions were for Oseltamivir.

| Antiviral Medications Dispensed to DON Beneficiaries, n (%) |
|---------------------------------|-------------|-------------|-------------|-------------|
|                                | Amantadine  | Oseltamivir | Rimantadine | Zanamivir   |
| Week 3                         | 0 (0.0)     | 76 (100.0)  | 0 (0.0)     | 0 (0.0)     |
| Season                         | 13 (1.6)    | 778 (98.4)  | 0 (0.0)     | 0 (0.0)     |
**Syndromic Surveillance**

**Influenza-Like Illness (ILI)**
- The percent of medical encounters that included an ILI diagnosis during Week 2 (lagged due to data availability):
  - 4.1% of outpatient encounters (below baseline)
  - 12.6% of ER admissions (below baseline)
- When grouped by parent facility, 4 DON facilities (14.3%) experienced an increase in the proportion of outpatient ILI visits during Week 2; none experienced an increase above 25%.

**Severity Indicators**

**Inpatient Laboratory**
- Two laboratory case (6.3%) was identified in an inpatient setting during Week 3.
- The two cases were influenza B positive family members (0-4 and 5-17 years of age) at NMC San Diego.

**Inpatient Pharmacy**
- Six (7.9%) AV prescriptions were in the inpatient setting during Week 3, above baseline (5.8%).
- This week’s inpatient cases include one child between 0-4 years, one between 5-17 years, one active duty and one spouse ages 18-44 years, and two adults over the age of 45.

**Influenza-Associated Hospitalization Reports**
- There were no inpatient cases reported to DRSi this week.

**Bacterial Coinfections**
- One coinfection was identified during Week 3; an outpatient nonrespiratory *Escherichia* infection at NMC San Diego. [Details](#)
- Though overall case counts remain low, the proportion of lower respiratory specimens is higher than expected.

### Proportion Bacterial Coinfections by Respiratory Source and Percent of Laboratory Positive Cases with a Bacterial Coinfections since Week 40, 2015-2016 Season

<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=9)</td>
<td>3 (33.3)</td>
</tr>
<tr>
<td>Cumulative Baseline (n=53.5)</td>
<td>19 (35.5)</td>
</tr>
</tbody>
</table>

* Cumulative baseline calculated as a weighted average over three years and may not represent whole numbers.
Active Duty
- One laboratory positive influenza case was identified among active duty Navy service members during Week 3; this case was identified in an outpatient setting at NMC San Diego.
- 12 active duty service members (6 Navy, 6 Marines) were dispensed AVs (12 oseltamivir) during Week 3.

Recruits
- Two laboratory positive influenza cases among recruits during Week 3, one at James A Lovell FHCC and one at NMC San Diego (both influenza type A).
- One AV (oseltamivir) dispensed a recruit during Week 3 at James A Lovell FHCC.

Children
- The rate of laboratory positive influenza cases (per 100,000) is highest this week among children ages 5-17 years (4.5), followed by children 0-4 (4.0).
- The rate of AV prescriptions (per 100,000) is highest this week among children 5-17 years (2.0), followed by adults 45+ years (1.9) and children 0-4 years (1.3).
- 18 laboratory positive influenza cases were identified among children during Week 3, below baseline estimates.
  - All but two were identified from outpatient settings in eight different facilities; the inpatient cases were from NMC San Diego. There were five cases among children ages 0-4 and 13 among children ages 5-17.
- There were 27 AVs dispensed to children during Week 3, below baseline estimates for children.
  - This week’s cases (27 oseltamivir) include six 0-4 year old children and 21 children ages 5-17 years. Most (6) were dispensed from NMC San Diego followed by NH Camp Pendleton (4). Two dispensed in inpatient settings.

In the News
- Influenza activity increased slightly in the United States. [Details]
- One additional laboratory-confirmed case of human infection with avian influenza A(H5N6) virus in China. [Details]