Overall Summary
Although frequencies of laboratory-positive influenza cases and dispensed antivirals among DON beneficiaries increased during Week 1, influenza activity remained below baseline levels. Nearly 90% of DON facilities reported an increase of outpatient ILI visits.

Key Findings

Influenza Activity and Surveillance

Laboratory
- Laboratory-positive influenza cases were below baseline.
- 96 laboratory cases identified. Details

Antivirals (AVs)
- Dispensed AVs were below baseline levels.
- 178 AVs dispensed. Details

Influenza-Like Illness (ILI)
- ILI outpatient encounters were slightly below baseline at 6.1% of outpatient medical encounters. Details

Severity Indicators

Inpatient
- 3 inpatient laboratory-positive cases identified.
- 13 inpatient AVs dispensed.
- Two influenza cases reported to DRSi. Details

Coinfections
- One bacterial coinfection among laboratory-positive cases was identified from a non-respiratory specimen.
- No rapid strep tests were identified among influenza cases. Details

Select Populations

Active Duty
- 14 laboratory-positive cases identified.
- 29 AVs dispensed. Details

Recruits
- No laboratory-positive cases identified.
- No AVs dispensed. Details
- Febrile respiratory illness rate elevated at MCRD Parris Island during Week 52. NHRC Report

Children
- Laboratory cases among children were below baseline levels; 33 laboratory-positive cases among children were identified. Details

Active Duty Vaccination Rates

Navy ....................... 92.3%
Marine Corps .......... 92.6%
US Fleet Forces ........ 95.3%

View Table
Data source: MRRS, current as of 10 Jan 2017.
Overall Burden*
- The weekly burden of influenza in the DON was 231 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (77.1%). Eight cases were identified in all three sources.
- 1,444 DON cases identified since Week 40.

*Note: 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.

Laboratory Cases
- Laboratory-positive cases were below baseline with 96 cases.
- Influenza case types: A(88), B(8).
- Facilities with the greatest number of cases:
  - Current week: NH Jacksonville (11), NH Camp Pendleton (10), NMC San Diego and NMC Portsmouth (both with 8).
  - Season: NMC San Diego (60), NH Bremerton (47), and NH Camp Pendleton (41).

Specimen Positivity
- 15.3% of all influenza specimens tested during Week 1 were positive, above last season (7.2%).
- When grouped by parent facility, 12 (42.9%) locations tested more than ten specimens.

Antiviral Prescriptions
- 178 AVs were dispensed during Week 1, below baseline levels.
- AVs dispensed: Amantadine (1), and Oseltamivir (177).
- Facilities dispensing most AVs this week: NH Bremerton (27), NH San Diego (25), and NH Pensacola (15).
Syndromic Surveillance

Influenza-Like Illness (ILI) *

- The percentage of medical encounters that included an ILI diagnosis:
  - 6.1% of outpatient encounters (slightly below baseline).
  - 16.0% of ER admissions (below baseline).
- 25 DON facilities (89.3%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - 23 facilities had an increase of 25% or higher.
  - James A. Lovell FHCC (118.8%) had the greatest increase in the percent of ILI visits from 5.9% last week to 12.8% this week.

*For Week 52, lagged due to data availability

Severity Indicators

Inpatient Laboratory

- 3 inpatient laboratory cases were identified (3.1% of all laboratory cases), below baseline levels.
- This week’s laboratory cases were for retired sponsors (2) and a spouse (1), at 60th Med Grp-Travis, AMC Madigan-Lewis, and NMC Portsmouth.

Inpatient Pharmacy

- The percentage of inpatient AVs (7.3% of all influenza AVs) was below baseline (8.7%); 13 inpatient AVs were dispensed.
- AVs were most frequently dispensed at NMC San Diego (4), 60th Med Grp-Travis (3), AMC Madigan-Lewis and NMC Portsmouth (both with 2).
- AVs were dispensed to non-active duty sponsors (5), spouses (6), active duty service members (1), and one child.

Influenza-Associated Hospitalization Reports

- Two inpatient laboratory cases were reported to DRSi this week, a child age 5-17 and an active duty sponsor, both at NH Okinawa.

Bacterial Coinfections

- One coinfection, *Escherichia*, was identified during the week from a non-respiratory specimen. Details
- No positive rapid strep tests were identified among influenza cases.

<table>
<thead>
<tr>
<th>Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>CoInfections by Specimen Source, n (%)</td>
</tr>
<tr>
<td>Upper Respiratory</td>
</tr>
<tr>
<td>Current Season (n=16)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=23.0)</td>
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</tbody>
</table>

* Cumulative baseline calculated as a weighted average over three years and may not represent whole numbers.
Note: Table does not include Group A *Streptococcus* identified from rapid diagnostic tests.

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Prepared by the EpiData Center (email; web) Navy and Marine Corps Public Health Center

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Active Duty

- 14 laboratory-positive influenza cases were identified among active duty service members, 9 Navy and 5 Marine Corps (12 Type A, 2 Type B).
- Vaccination records were not available during Week 1.
- The cases were identified at NH Camp Pendleton (2), NMC Portsmouth (2) and 10 other facilities with one case each.
- 29 active duty service members (17 Navy, 12 Marine Corps) were dispensed AVs (all Oseltamivir).

Recruits

- No laboratory-positive influenza cases were identified among recruits.
- No AVs were dispensed to Navy recruits.

<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</td>
<td>45</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Antiviral</td>
<td>111</td>
<td>45</td>
<td>1</td>
</tr>
</tbody>
</table>

Children

- Laboratory cases were below baseline levels; 33 laboratory-positive influenza cases were identified.
  - No cases were identified from an inpatient setting.
  - Outpatient cases were identified most frequently at NH Camp Pendleton, NMC Portsmouth (both with 4), NH Jacksonville and NH Bremerton (both with 3).
- AVs dispensed to children were at baseline levels; 46 AVs were dispensed (all Oseltamivir).
  - One AV was dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Bremerton and NMC San Diego (both with 9), NH Camp Lejeune and NH Pensacola (both with 4).

In the News

- The CDC reported that during Week 52 influenza activity continued to rise in the United States and outpatient encounters for influenza-like illness (ILI) remained above baseline. Details
- Based upon a report in CIDRAP, influenza inpatient rates for seniors increased from Week 51 to Week 52. H3N2 influenza A subtype accounted for 93.5% of influenza cases during Week 52; seniors are particularly vulnerable when H3N2 is the dominant influenza strain. Details