Overall Summary
Overall influenza activity was low, with overall laboratory-identified cases and dispensed AVs below baseline levels. However, inpatient laboratory positive influenza cases and dispensed antivirals were both above baseline levels during Week 49.

Key Findings

Influenza Activity and Surveillance

Laboratory
- Laboratory-positive influenza cases were below baseline.
- 26 laboratory cases identified. [Details]

Antivirals (AVs)
- Dispensed AVs were below baseline levels.
- 61 AVs dispensed. [Details]

Influenza-Like Illness (ILI)
- ILI outpatient encounters were slightly below baseline at 4.1% of outpatient medical encounters. [Details]

Severity Indicators

Inpatient
- Two inpatient laboratory-positive cases identified.
- Five inpatient AVs dispensed.
- No influenza cases reported to DRSi. [Details]

Coinfections
- No bacterial coinfections among laboratory-positive cases were identified.
- No rapid strep tests were identified among influenza cases. [Details]

Select Populations

Active Duty
- Three laboratory-positive cases identified.
- Fifteen AVs dispensed. [Details]

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

Children
- Laboratory cases among children were below baseline levels. [Details]

Active Duty Vaccination Rates

Navy ...................... 87.7%
Marine Corps ............89.1%
US Fleet Forces ........ 90.9%

View Table
Data source: MRRS, current as of 12 Dec 2016.
Overall Burden*
- The weekly burden of influenza in the DON was 80 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (76.3%). Two cases were identified in all three sources.
- 601 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 26 cases.
- All cases were identified as Influenza Type A.
- Facilities with the greatest number of cases:
  - Current week: NH Oak Harbor (6), NMC San Diego (4), NH Camp Pendleton and 81st Med Grp-Kessler (both with 3).
  - Season: NH Camp Lejeune (22), NMC San Diego (14), NH Oak Harbor (13), NH Guam-Agana (11).

Specimen Positivity
- 6.2% of all influenza specimens tested; above last season (2.9%).
- Facilities testing 10 or more specimens: 10 (35.7%).

<table>
<thead>
<tr>
<th>Test Types among Positive Influenza Specimens, n (%)</th>
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<tbody>
<tr>
<td>Rapid</td>
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<tr>
<td>--------</td>
</tr>
<tr>
<td>Week 47</td>
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<tr>
<td>Week 48</td>
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<tr>
<td>Week 49</td>
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<tr>
<td>Season</td>
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Antiviral Prescriptions
- AVs dispensed were below baseline levels.
- 61 AVs (3 amantadine, 58 oseltamivir) were dispensed.
- Facilities dispensing most AVs this week: NMC San Diego (7), NH Camp Pendleton and NH Pensacola (both with 5).

<table>
<thead>
<tr>
<th>Antiviral Medications Dispensed to DON Beneficiaries, n (%)</th>
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<tbody>
<tr>
<td>Amantadine</td>
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<tr>
<td>-------------</td>
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<tr>
<td>Week 47</td>
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<td>Week 48</td>
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<tr>
<td>Week 49</td>
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<tr>
<td>Season</td>
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</tbody>
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Influenza-Like Illness (ILI) *

- The percentage of medical encounters that included an ILI diagnosis:
  - 4.1% of outpatient encounters (slightly below baseline).
  - 12.0% of ER admissions (below baseline).
- 14 DON facilities (50.0%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - Eight facilities had an increase of 25% or higher.
  - NH Rota (49.8%) had the greatest increase in the percent of ILI visits.

*For Week 48, lagged due to data availability

Inpatient Laboratory

- Two inpatient laboratory cases were identified (7.7% of all laboratory cases).
- One inpatient laboratory case was identified at NH Camp Pendleton and one at NMC San Diego, both Marine Corps family members.

Inpatient Pharmacy

- The percentage of inpatient AVs (8.2% of all influenza AVs) was above baseline (4.4%).
- AVs were most frequently dispensed at NMC Portsmouth (2), NH Camp Pendleton, NH Pensacola, NMC San Diego (all with 1).
- AVs were dispensed to an active duty service member (1), spouses (2), a child (1), and a non-active duty sponsor (1).

Influenza-Associated Hospitalization Reports

- No inpatient influenza cases were reported to DRSi during Week 49.

Bacterial Coinfections

- No coinfections were identified during the week.
- No rapid strep tests were identified among influenza cases.

<table>
<thead>
<tr>
<th>Bacterial Coinfections by Specimen Source and as a Percent of Laboratory Cases, 2016-2017 Season</th>
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</thead>
<tbody>
<tr>
<td>Coinfections by Specimen Source, n (%)</td>
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<tr>
<td>----------------------------------------</td>
</tr>
<tr>
<td>Upper Respiratory</td>
</tr>
<tr>
<td>Current Season  (n=4)</td>
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<tr>
<td>Cumulative Baseline*  (n=6.7)</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 Strepococcus identified from rapid diagnostic tests.
Active Duty
- Three laboratory-positive influenza cases were identified among active duty service members, two Navy and one Marine Corps (all Type A).
- The cases were identified at NH Camp Lejeune (1) and 72nd Med Grp-Tinker (2).
- Fifteen active duty service members (13 Navy, 2 Marine Corps) were dispensed AVs (13 oseltamivir, 2 amantadine).

Recruits
- No laboratory-positive influenza cases were identified among recruits.
- No AVs were dispensed to 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>11</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Antiviral</td>
<td>51</td>
<td>19</td>
<td>0</td>
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</tbody>
</table>

Children
- Laboratory cases were below baseline levels; 12 laboratory-positive influenza cases were identified.
  - One case was identified from an inpatient setting at NMC San Diego (Marine Corps dependent, age 5-17).
  - Outpatient cases were identified at NH Oak Harbor (6), NMC San Diego (1), and others.
- AVs dispensed to children were below baseline levels; 18 AVs were dispensed (all oseltamivir).
  - No AVs were dispensed in the inpatient setting.
  - Locations with most AVs dispensed: NH Oak Harbor (4), NMC San Diego (3), and others.

In the News
- The first generic equivalent to Tamiflu, now available in the U.S., is expected to save the U.S. healthcare system nearly $500 million during the 2016-2017 influenza season. Details
- Influenza vaccine coverage remains low this season. As of early November only 2 of 5 people in the U.S. reported receiving the vaccine. Details