Influenza Activity and Surveillance

Laboratory
- Laboratory-positive influenza cases were slightly above baseline.
- 51 laboratory cases identified. Details

Antivirals (AVs)
- Dispensed AVs were slightly above baseline.
- 81 AVs dispensed. Details

Influenza-Like Illness (ILI)
- ILI outpatient encounters were slightly below baseline at 3.3% of outpatient medical encounters. Details

Severity Indicators

Inpatient
- Two inpatient laboratory-positive cases identified.
- Four inpatient AVs dispensed, below baseline.
- Five influenza cases reported to DRSi. Details

Coinfections
- Two bacterial coinfections among laboratory-positive cases were identified from lower-respiratory (2) specimens.
- One positive rapid strep test was identified among influenza cases. Details

Select Populations

Active Duty
- Nine laboratory-positive cases identified.
- 11 AVs dispensed. Details

Recruits
- No laboratory-positive cases identified.
- One AV dispensed. Details
- Elevated febrile respiratory illness rate at Fort Benning. NHRC Report

Children
- Laboratory cases among children were at baseline levels with 22 laboratory-positive cases identified. Details

Overall Summary
Influenza activity in the DON continues to decline. Laboratory positive cases and dispensed antivirals are slightly above baseline levels. Outpatient and ER encounters for ILI are below baseline levels.

Active Duty Vaccination Rates
Navy ...................... 96.3%
Marine Corps ............ 97.0%
US Fleet Forces .......... 98.5%

View Table
Data source: MRRS, current as of 24 Apr 2017.
Influenza Activity and Surveillance

Overall Burden*
- The weekly burden of influenza in the DON was 106 cases, identified in one or more data sources.
- Pharmacy captured the highest proportion of cases (76.4%).
- Four cases were identified in all three sources.
- 9,454 DON cases have been 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 slightly above baseline levels with 51 cases.
- Influenza case types: A (23), B (27), and type unknown (1).
- Facilities with the greatest number of cases:
  - Current week: NH Camp Jacksonville (11), Ft. Belvoir Community Hosp-FBC (6), NH Camp Pendleton (5), and NMC Portsmouth (5).
  - Season: NH Camp Lejeune (588), NH Jacksonville (318), and NMC San Diego (297).

Specimen Positivity
- 10.5% of all influenza specimens tested during Week 16 were positive, below last season (15.4%).
- When grouped by parent facility, 9 (32.1%) locations tested more than ten specimens.

<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>
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<tr>
<td>Week 14</td>
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<td>Week 15</td>
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<td>Week 16</td>
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<tr>
<td>Season</td>
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Antiviral Prescriptions
- 81 AVs were dispensed (slightly above baseline).
- AVs dispensed: Oseltamivir (81).
- Facilities dispensing the most AVs this week: NH Jacksonville (8), Ft. Belvoir Community Hosp-FBC (7), NH Beaufort (5), NMC Portsmouth (5), and NMC San Diego (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>
</tr>
<tr>
<td>Week 14</td>
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<td>Week 15</td>
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<td>Week 16</td>
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<td>Season</td>
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Syndromic Surveillance

Influenza-Like Illness (ILI) *
- The percentage of medical encounters that included an ILI diagnosis:
  - 3.3% of outpatient encounters (slightly below baseline).
  - 11.9% of ER encounters (below baseline).
- Eight DON facilities (28.6%) reported an increase in the proportion of outpatient ILI visits from the prior week.
  - One facility had an increase of 25% or higher.
  - NHC Annapolis had the greatest increase (55.8%) in the percentage of ILI visits.

*For Week 15, lagged due to data availability.

Severity Indicators

Inpatient Laboratory
- Two inpatient laboratory cases were identified, below baseline.
- Cases were identified among a sponsor (1) and a spouse (1).
- Cases were identified at AMC Brooke-SAMMC-Sam Houston (1) and NMC Portsmouth (1).

Inpatient Pharmacy
- The percentage of inpatient AVs (4.9% of all influenza AVs) was below baseline; four inpatient AVs were dispensed.
  - Inpatient AVs were most frequently dispensed at AMC Brooke-SAMMC-Sam Houston (1), NH Beaufort (1), NMC Portsmouth (1), and NMC San Diego (1).
  - AVs were dispensed to spouses (2), a recruit (1), and a non-active duty sponsor (1).

Influenza-Associated Hospitalization Reports
- Five influenza-associated hospitalization were reported to DRSi.
- All five DRSi reports were also identified as laboratory-positive cases, and four of five were dispensed AVs.

Bacterial Coinfections
- Two coinfections were identified; *Streptococcus* (1 lower respiratory) and *Klebsiella* (1 lower respiratory). Details.
- One positive rapid strep tests were identified among influenza cases.

<table>
<thead>
<tr>
<th>Coinfections by Specimen Source, n (%)</th>
<th>Lab Cases with Bacterial Coinfection (%)</th>
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</thead>
<tbody>
<tr>
<td>Upper Respiratory</td>
<td>Lower Respiratory</td>
</tr>
<tr>
<td>Current Season (n=176)</td>
<td>85(48.3)</td>
</tr>
<tr>
<td>Cumulative Baseline* (n=106.2)</td>
<td>40.8(38.5)</td>
</tr>
</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.
Active Duty

- 9 laboratory-positive influenza cases were identified among active duty service members, seven Navy and two Marine Corps (3 Type A, 6 Type B).
- Facilities with the greatest number of AD laboratory-positive influenza cases identified this week: NMC San Diego (2), and Ft Belvoir Community Hosp-FBC (2).
- 11 active duty service members (8 Navy, 3 Marine Corps) were dispensed AVs (all Oseltamivir).

Recruits

- No laboratory-positive influenza cases were identified among recruits.
- One AV (Oseltamivir) was dispensed to a Marine Corps recruit at NH Beaufort.

Children

- Laboratory cases among children were at baseline levels; 22 laboratory-positive influenza cases were identified.
  - Facilities with the greatest number of outpatient cases identified: NH Jacksonville (5), Ft Belvoir Community Hosp-FBC (2), and NH Camp Pendleton (2).
  - All cases were identified from an outpatient setting.
- AVs dispensed to children were slightly above baseline levels; 32 AVs were dispensed (all Oseltamivir).
  - Locations with the most AVs dispensed: NH Jacksonville (4), and ACH Ireland-Knox (3).
  - All AVs were dispensed in the outpatient setting (32).

In the News

- CDC released new guidelines detailing the use of nonpharmaceutical interventions in community mitigation of pandemic influenza. Details