Influenza Activity and Surveillance

Laboratory:
There were 72 laboratory positive influenza results among DON beneficiaries during Week 48 (almost three times the seasonal baseline). More

Antivirals:
There were 83 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (82 oseltamivir, one amantadine). Influenza-specific AV prescriptions this week were triple the seasonal baseline. More

Influenza-Like Illness:
Overall, 4% of outpatient medical encounters were due to influenza-like illness (ILI); this was slightly below the seasonal baseline. More

Severity Indicators

Inpatient:
There were 19 inpatient influenza tests performed during Week 48; none were positive. One inpatient AV prescription was dispensed this week. No inpatient cases were reported to DRSi during Week 48. More

Coinfections:
There were three upper respiratory bacterial coinfections identified among DON beneficiaries during Week 48. More

Select Populations

Active Duty & Recruits:
In Week 48, two active duty Marine Corps service members had laboratory positive influenza results. No recruits in Week 48 had a laboratory positive influenza result. More

NHRC reports febrile respiratory illness rates are at or below expected values for DON basic training centers. More

Children:
Laboratory influenza rates in the 0-4 and 5-17 age groups were 10.57 and 11.6 per 100,000, respectively.
There were 35 AV prescriptions dispensed to children this week. More

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Vaccination

79.0% of Navy and 70.9% of Marine Corps active duty service members have received an influenza vaccine (as of 29 November 2014). More

Reminder: The DOD’s personnel vaccination goal is 90% vaccine coverage by 15 December 2014.
Case Identification:
Several sources of data were utilized to identify influenza cases across the DON, including certified laboratory results, antiviral pharmacy transactions, and DRSi case reports.
- Since week 40, 19.6% of cases were identified through both positive laboratory tests and AV prescriptions.
- During Week 48, no cases of influenza-associated hospitalization were reported to DRSi. This season, only one laboratory positive inpatient case (11.1%) has been reported to DRSi.

Laboratory:
- There were 72 positive laboratory influenza results identified among DON beneficiaries in Week 48 (66 Type A, five Type B, one Type A&B).
  - The number of cases this week is approximately three times the seasonal baseline.
  - The most laboratory positive cases this week occurred at NH Camp Lejeune (36), NH Jacksonville (11), and NH Pensacola (10).
    - NH Camp Lejeune has the most cumulative cases since week 40 (88), followed by NH Jacksonville (30), NH Pensacola (16), and NH Guam (12).
  - During Week 48, 22.4% of all influenza tests performed were positive.
    - This is higher than the percent of tests with positive results in Week 48 of last season (6.2%).
  - In Week 48, most cases were positive by rapid testing.

<table>
<thead>
<tr>
<th>Proportion of Testing Types among Positive Influenza Tests</th>
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<tbody>
<tr>
<td>Rapid</td>
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<tr>
<td>Week 48</td>
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<tr>
<td>Season</td>
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Antivirals:
- There were 83 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (82 oseltamivir, one amantadine).
- Antiviral prescriptions during Week 48 were over three times the seasonal baseline.
- One of the antiviral prescriptions during Week 48 was in the inpatient setting.
- There have been 332 AVs prescribed to DON beneficiaries this season (323 oseltamivir, nine amantadine).
Syndromic Surveillance

Influenza-Like Illness:

- During Week 48, 4.0% of outpatient medical encounters among DON beneficiaries included ICD-9-CM diagnostic codes for influenza-like illness (ILI); this was slightly below the seasonal baseline.
- Among ER visits, 11.3% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was also below the seasonal baseline.

Immunizations

Vaccination Coverage:

- The two laboratory-identified active duty influenza cases during Week 48 had no record of vaccination.
- 79.0% of Navy and 70.9% of Marine Corps active duty service members have received an influenza vaccine.
  - Among US Fleet Forces personnel, 85.4% have received an influenza vaccine.
- 78.6% of Navy and 68.0% of Marine Corps reservists have received an influenza vaccine.

More

Severity Indicators

Inpatient Surveillance:

- There were 19 inpatient influenza tests performed among DON beneficiaries in Week 48; none were positive.
- One AV medication was prescribed in the inpatient setting this week.
  - The inpatient AV medication was prescribed at Brooke Army Medical Center.
- No inpatient cases were reported to DRSi this week.
- Approximately 10% of inpatient visits among DON beneficiaries included ICD-9-CM diagnostic codes for ILI during Week 43, which was double the seasonal baseline; more current data is not yet available.

Coinfections:

- There were five bacterial coinfections identified among DON beneficiaries in Week 48.
  - Three were upper respiratory *Streptococcus* infections among children at NH Camp Lejeune.

More

Back
Active Duty

- There were two laboratory positive influenza results (Type A) among active duty Marine Corps service members in Week 48.
  - The two Marine Corps service members were tested in the outpatient setting at NH Camp Lejeune and had no record of vaccination.
- Since Week 40, 31.8% (seven) of the DON active duty laboratory positive cases were vaccinated at least 14 days prior to infection.
- Six active duty service members received AVs during Week 48.
  - Two prescriptions were dispensed to active duty Marines at NH Camp Lejeune and four to active duty Navy service members at varying locations; all received oseltamivir.

Recruits:

- There were no laboratory positive influenza results among DON recruits in Week 48.
- There were no AVs dispensed to a recruit during Week 48.

Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups in Week 48 were 10.57 and 11.6 per 100,000, respectively.
- There were 35 AV medications prescribed to children during Week 48. The number of AVs dispensed to children this week is seven times the seasonal baseline.

Other Age Groups:

- During Week 48, the laboratory influenza rates among the 18-44 and 45+ age groups were 1.85 and 2.13 per 100,000, respectively.

In the News

- Due to the detection of drifted influenza A (H3N2) viruses, the CDC issued a health advisory to emphasize the importance of the use of neuraminidase inhibitor antiviral medications when indicated for treatment and prevention of influenza, as an adjunct to vaccination. More
- US influenza activity rose slightly in the third week of November but remained generally low, though four flu-related deaths in children were reported. More