Influenza Activity and Surveillance

Laboratory:
There were 251 laboratory positive influenza results among DON beneficiaries during Week 1, increasing slightly compared to last week. More

Antivirals:
Influenza-specific antivirals (AV) also trended upwards compared to the previous week; a total of 524 AV medications were prescribed to DON beneficiaries during Week 1, over twice the seasonal baseline. More

Influenza-Like Illness:
Overall, 5.8% of outpatient medical encounters were due to influenza-like illness (ILI); this was comparable to the seasonal baseline. More

Severity Indicators

Inpatient:
Seven of the 60 inpatient influenza tests performed during Week 1 were positive. Twenty inpatient AV prescriptions were dispensed this week. Two inpatient cases were reported to DRSi this week. More

Coinfections:
There were 17 bacterial coinfections identified among DON beneficiaries since our last report. More

Select Populations

Active Duty & Recruits:
In Week 1, 41 Navy and 8 Marine Corps active duty service members had laboratory positive influenza results. Three recruits (2 Navy, 1 Marine Corps) had a positive influenza laboratory test. More

NHRC reports substantially elevated febrile respiratory illness (FRI) rates at MCRD San Diego during Week 53. More

Children:
Laboratory influenza rates in the 0-4 and 5-17 age groups were 29.4 and 17.1 per 100,000, respectively. There were 157 AV prescriptions dispensed to children this week; over twice the seasonal baseline. More

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Vaccination

87.7% of Navy and 80.8% of Marine Corps active duty service members have received an influenza vaccine (as of 10 January 2015). More

Reminder: The DOD’s personnel vaccination goal was 90% vaccine coverage by 15 December 2014.
Laboratory:

- There were 251 positive influenza laboratory results identified among DON beneficiaries in Week 1 (224 type A, 23 type B, 2 type A&B, 2 non-specific).
  - The number of cases this week remains above the seasonal baseline.
  - One-quarter of all influenza tests performed were positive; this is almost twice the positivity during Week 1 of the previous season. The majority of laboratory positives were rapid (71.7%) or PCR (25.1%) tests.
  - The most laboratory positive cases this week occurred at NMC San Diego (54), NH Jacksonville (23), San Antonio-Ft. Sam Houston (19), NH Camp Lejeune (15), NH Camp Pendleton (14), and NH Bremerton (12).
  - Since Week 40, 1,625 positive laboratory results have been identified among DON beneficiaries; NH Camp Lejeune has the most cumulative cases (216), followed by NH Jacksonville (210), NMC San Diego (132), and NH Pensacola (91).

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<th>Proportion of Testing Types among Positive Influenza Tests</th>
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<td>Rapid</td>
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Antivirals:

- There were 524 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (all oseltamivir).
- Antiviral prescriptions during Week 1 increased compared to the previous week and remain over twice the seasonal baseline.
- Twenty of the antiviral prescriptions during Week 1 were in the inpatient setting, the majority were dispensed at NMC San Diego (8), NMC Portsmouth (3), and NH Camp Pendleton (3).
- There have been 2,598 AVs prescribed to DON beneficiaries this season (2,585 oseltamivir, 13 amantadine).
Inpatient Surveillance:
- During Week 1, 5.8% of outpatient medical encounters among DON beneficiaries included ICD-9-CM diagnostic codes for influenza-like illness (ILI); this was comparable to the seasonal baseline.
- Among ER visits, 13.6% of medical encounters contained ILI ICD-9-CM diagnostic codes, which was below the seasonal baseline.

Immunizations

Vaccination Coverage:
- 87.7% of Navy and 80.8% of Marine Corps active duty service members have received an influenza vaccine. Reserve vaccination rates are slightly below the rates of active duty service members (87.0% Navy, 76.2% Marine Corps). More
- A total of 250 laboratory positive influenza cases have been identified among DON active duty service members since Week 40; the majority (81.2%) were vaccinated at least 14 days prior to infection. More

Severity Indicators

Inpatient Surveillance:
- There were 60 inpatient influenza tests performed among DON beneficiaries in Week 1; seven were positive.
  - Six of this week’s cases were influenza type A (one 18-44 years and five 45+ years) and one was type B (age 45+).
- Twenty AV medications were prescribed in the inpatient setting this week.
  - Inpatient AVs were dispensed to patients across three age groups: 0-4 (2), 18-44 (9), 45+ (9).
  - NMC San Diego had the most inpatient AVs dispensed (8), followed by NMC Portsmouth (3), and NH Camp Pendleton (3).
- There were two influenza-associated hospitalizations reported to DRSi this week.
  - These cases were reported from NMC San Diego and NMC Portsmouth; both were previously identified in outpatient laboratory surveillance.

Coinfections:
- Since our last report, 17 bacterial coinfections were identified among DON laboratory positive influenza patients; the percent of patients with a bacterial coinfections remains comparable to baseline.
- Five upper respiratory Streptococcus infections were identified in five separate outpatient facilities this week.
- Two lower respiratory infections were identified at NMC San Diego this week.

Click here for a complete list of coinfections identified since our last report.
Active Duty

- There were 49 laboratory positive influenza results among DON active duty service members in Week 1 (43 type A, 3 type B, 2 type A&B, 1 unknown); all were in an outpatient setting.
  - The largest number of cases were identified at NMC San Diego (12), NH Camp Pendleton (4), and Ft. Sam Houston (4). Remaining cases were spread across 22 facilities with one to three cases each.
  - The majority (41) of the 49 DON active duty influenza cases during Week 1 were vaccinated at least 14 days prior to infection; eight had no record of vaccination.
- Since Week 40, a total of 250 laboratory positive influenza cases have been identified among DON active duty service members; 81.2% (203) were vaccinated at least 14 days prior to infection.
- There were 98 AVs dispensed (all oseltamivir) to active duty service members during Week 1, increasing from 59 AVs dispensed in Week 53.

Recruits:

- Two Navy and one Marine Corps recruits (all type A) had positive laboratory tests this week.
  - All cases were identified in outpatient settings at Ft. Sam Houston (2), and NMC San Diego (1).
- There were seven AV’s dispensed to recruits during Week 1 (all oseltamivir).

Children:

- The rates of positive influenza results in the 0-4 and 5-17 age groups in Week 1 were 29.4 and 17.1 per 100,000, respectively. Although the rate among 5-17 year olds increased slightly compared to last week, this age group has shown a major decline since peaking during Week 51.
- There were 157 AV medications prescribed to children during Week 1, increasing from 106 AV medications during Week 53 and remaining over twice the seasonal baseline.

Other Age Groups:

- During Week 1, laboratory influenza rates among the 18-44 and 45+ age groups were 12.5 and 14.4 per 100,000, respectively.

In the News

- Globally influenza activity continued to increase in the northern hemisphere with influenza A(H3N2) viruses predominating so far this season. More
- Amid widespread flu, CDC calls for more antiviral use. More