DON Influenza SITREP
2012-2013 Influenza Season
Week 50 (December 9 — December 15, 2012)

Laboratory Summary:
- There were 63 laboratory positive influenza results among DON beneficiaries during Week 50 (above seasonal baseline).
  - Top facilities: NHC Charleston (nine), NH Beaufort (eight), NH Pensacola (five), NH Camp Lejeune (five), Ft. Belvoir (five)
  - NH Pensacola has had the most cases this season (40).
  - 53 cases were positive by rapid test, seven by culture, and three by PCR. More

Antivirals:
- There were 89 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (two amantadine, 87 oseltamivir).
- The frequency of AV prescriptions during Week 50 was above the seasonal baseline. More

Inpatient:
- There were 11 inpatient influenza tests performed during Week 50; one was positive.
- Three inpatient AV prescriptions were dispensed in Week 50.
- Two inpatient cases were reported to DRSi this week. More

Active Duty & Recruits:
- There were four laboratory positive influenza cases among active duty service members in Week 50.
- The ILI rate remains low for both LANT and PAC Fleets (0.02% and 0.0%, respectively). More

Children:
- Laboratory influenza rates in the 0-4 and 5-17 year old age groups were 13.7 per 100,000 and 7.1 per 100,000, respectively.
- There were 39 AV prescriptions dispensed to children this week (43.8%). More

Additional Information:
- There were no coinfections identified this week.
- There was one radiology-associated pneumonia identified among influenza patients during Week 48 (not previously reported). More
- A report from the Clinical Epidemiology Division summarizes bacterial respiratory infections for the past four influenza seasons. More

Vaccination:
- 90.9% of active duty Navy personnel have been vaccinated as of this week.
- 84.5% of active duty Marine Corps personnel have been vaccinated as of this week. More

In the News:
- Increased influenza surveillance efforts in Africa lead to emerging flu patterns in the region. More
- Two cases of H3N2v influenza, the strain associated with state fairs this past summer, have been identified during this flu season. More
- Santa Claus takes precautions against influenza when listening to children’s wish lists. More

Contact Information: Gosia Nowak, 757-953-0979, gosia.nowak@med.navy.mil
Laboratory Summary:
- There were 63 positive laboratory influenza results identified among DON beneficiaries in Week 50 (54 Type A, nine Type B).
- During Week 50, 20% of all influenza tests performed were positive.
  - This is higher than the percent of tests with positive results in Week 50 of last season (4%).
- The number of cases this week remains above the seasonal baseline.
- In Week 50, 53 cases were positive by rapid test, seven were positive by culture, and three were positive by PCR.

<table>
<thead>
<tr>
<th>Frequency of Testing Types among Positive Influenza Tests</th>
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<tbody>
<tr>
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<tr>
<td>----------------</td>
</tr>
<tr>
<td><strong>Week 50</strong></td>
</tr>
<tr>
<td><strong>Season</strong></td>
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</tbody>
</table>

Antivirals:
- There were 89 influenza-specific antiviral (AV) medications prescribed to DON beneficiaries this week (two amantadine, 87 oseltamivir). Three of the antiviral prescriptions were in the inpatient setting.
- There have been 331 influenza-specific AV prescriptions dispensed to DON beneficiaries this season (14 amantadine, 317 oseltamivir).
- The number of AV medications dispensed during Week 50 was above the seasonal baseline.

Inpatient:
- There were 11 inpatient influenza tests performed among DON beneficiaries in Week 50; one was positive.
  - The case was a female Navy spouse, age 18-44, positive for Type A by culture at NH Bremerton.
  - There were three AV medications prescribed in the inpatient setting this week, all prescribed oseltamivir at NMC Portsmouth.
    - This week’s inpatient prescriptions were dispensed to a male active duty service member age 18-44, a female spouse age 18-44, and a male child 0-4 years old.
  - There were two inpatient cases reported to DRSi this week; there have been five inpatient cases reported to DRSi this season.
    - This week’s cases were both 18-44 year old female spouses at NH Pensacola. One patient was previously identified in HL7 laboratory and pharmacy surveillance (Week 47) and the other was previously identified in HL7 pharmacy surveillance (Week 48).
  - There were three inpatient ILI cases in November, and there have been nine inpatient ILI cases this season.
Active Duty & Recruits:
- There were four positive laboratory influenza results among DON active duty service members in Week 50 (one Marine Corps, three Navy). All cases were Type A; three were positive by rapid test and one was positive by PCR. The cases were identified at Walter Reed, Ft. Belvoir, NHC Annapolis, and NHC Quantico.
  - Rates of influenza positive laboratory results are above baseline for both Navy and Marine Corps active duty service members this week.
  - No influenza positive laboratory results have been identified in DON recruits since Week 41.

Children:
- The rate of positive influenza results in Week 50 was highest in the 0-4 age group, at 13.7 per 100,000. The rate in the 5-17 age group was 7.1 per 100,000.
- There were 39 AV medications prescribed to children in Week 50. The number of AVs dispensed to children during Week 50 was higher than the seasonal baseline.

Other Age Groups:
- During Week 50, the laboratory influenza rates among the 18-44 and 45+ age groups were 1.3 and 2.3 per 100,000, respectively.

Coinfections:
- There were no coinfections identified in DON beneficiaries during Week 50.
- There have been six coinfections identified among DON beneficiaries this season (4 Staphylococcus, 2 Streptococcus).

Pneumonia:
- There was one radiology-associated pneumonia case identified among DON influenza cases during Week 48 (not previously reported).
  - The case was a 5-17 year old female child at Brooke AMC–Ft. Sam Houston.
- There has been one radiology-associated pneumonia identified among DON influenza patients this season.
Vaccination:
- As of December 15, 2012, 90.9% of Navy and 84.5% of Marine Corps active duty service members have received an influenza vaccine.
- The Marine Corps active duty case this week received an influenza vaccine (LAIV) more than 14 days prior to infection.
- Two of the Navy active duty cases this week received an influenza vaccine (1 LAIV, 1 TIV) more than 14 days prior to infection. The third Navy active duty case was not vaccinated.

<table>
<thead>
<tr>
<th>Component</th>
<th>Total</th>
<th>Immunized*</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active Duty</td>
<td>314,339</td>
<td>285,694</td>
<td>90.9</td>
</tr>
<tr>
<td>Reserve</td>
<td>62,944</td>
<td>56,074</td>
<td>89.1</td>
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<table>
<thead>
<tr>
<th>Marine Corps</th>
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<tbody>
<tr>
<td>Component</td>
</tr>
<tr>
<td>Active Duty</td>
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<tr>
<td>Reserve</td>
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*Includes both injection and intranasal influenza vaccines. Force strength for active duty and reserve forces was generated using the September 2012 Defense Manpower Data Center data.

Additional Reports of Interest:
- The Clinical Epidemiology Division at the EDC completed an analysis of bacterial respiratory infections in DOD beneficiaries during influenza seasons from 2008-2009 to 2011-2012. The report found that the frequency of bacterial upper respiratory infections has decreased each season since 2008-2009, while the frequency of bacterial lower respiratory infections has remained stable. More