September 11, 2013
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Produced by: Bureau of Epidemiology, Florida Department of Health (FDOH)
Contributors: Heather Rubino, MS; Lea Heberlein-Larson, MPH; Valerie Mock; Janet Hamilton, MPH; Leah Eisenstein, MPH; Yngrid Padilla, MPH

Weeks 35-36: August 24 – September 6, 2013

Summary
The Florida Department of Health (FDOH) monitors multiple surveillance systems such as the Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE-FL) notifiable disease reports (Merlin), National Respiratory and Enteric Virus Surveillance System (NREVSS), EpiCom, and Florida ILINet in order to track influenza activity in the state.

Novel influenza:
- Eighteen confirmed cases of influenza A H3N2v infection have been reported since June, 2013. Michigan reported the two most recent cases in the last month. Since being first identified in the United States, CDC has reported 327 cases and one fatality.
- No cases of H3N2v infection have been reported in Florida. More information can be found at: http://www.cdc.gov/flu/swineflu/h3n2v-cases.htm. The H3N2v strain originates from influenza that circulates in pigs. Nearly all people infected with H3N2v have reported direct or indirect contact with swine. No sustained human to human transmission has been identified.
- For current information on novel or pandemic strains of influenza (including avian or swine origin influenza A) visit http://www.doh.state.fl.us/Environment/medicine/arboviral/zoonoses/Zoonotic-avian.html.

State:
Influenza virus is circulating at very low levels in Florida, which is typical for this time of year.
- Emergency department (ED) and urgent care center (UCC) influenza-like illness (ILI) visits remain low, which is typical for this time of year.
  • In the Panhandle, Central, and South Florida, ILI visits decreased in the current week.
  • In the Northeast, ED and UCC visits for ILI increased in the current week.
- In weeks 35 and 36, no specimens were submitted for influenza testing at the Bureau of Public Health Laboratories (BPHL).
  • Nationally (including Florida), almost all circulating influenza is a good match for the vaccine.
- In week 35, the preliminary estimated number of deaths due to pneumonia or influenza in Florida is lower than the seasonal baseline, based on previous years’ data. Estimated deaths due to pneumonia and influenza are identified using preliminary death certificate data viewed in ESSENCE-FL.

TABLE 1: Summary of Florida ILI Activity for Week 36

<table>
<thead>
<tr>
<th>Measure</th>
<th>Difference from previous week</th>
<th>Current week 36</th>
<th>Previous week 35</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent of total visits to participating outpatient ILINet providers for ILI</td>
<td>▼ 0.4</td>
<td>0.8%</td>
<td>1.2%</td>
</tr>
<tr>
<td>Percent of emergency department and urgent care center visits (from ESSENCE-FL) due to ILI</td>
<td>▼ 0.1</td>
<td>1.8%</td>
<td>1.9%</td>
</tr>
<tr>
<td>Number of laboratory specimens that were positive for influenza (out of total number tested)</td>
<td>No Change</td>
<td>0 (of 0)</td>
<td>0 (of 0)</td>
</tr>
<tr>
<td>Number of ILI outbreaks reported in EpiCom</td>
<td>No Change</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

NREVSS Respiratory Virus Surveillance
The National Respiratory and Enteric Virus Surveillance System (NREVSS) collects data from laboratories around the country on a weekly basis. NREVSS monitors temporal and geographic patterns of six common respiratory viruses. Florida has over 45 participating laboratory facilities.

FIGURE 1 shows the percentage of positive tests for six respiratory viruses reported by NREVSS-participating laboratories in Florida.

The six respiratory viruses summarized in Figure 1 are:
- RSV
- Parainfluenza 1-3
- Adenovirus
- Human Metapneumo Virus (HMPV)
- Rhinovirus
- Influenza

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FIGURE 1: Percentage of Positive Respiratory Virus tests as collected by NREVSS, Florida 2010-2013, as of September 11, 2013

0  5  10  15  20  25  30  35  40  45  50
0  5  10  15  20  25  30  35  40  45  50
2011 2012 2013

Percent Positive
Week
%RSV %Parainfluenza %Adenovirus %HMPV %Rhinovirus %Influenza
ESSENCE-FL collects data daily from 180 hospital emergency departments (ED) and urgent care centers (UCC). These data are processed into 11 different syndrome categories based on the patient’s chief complaint. One of the categories is ILI, which is composed of chief complaints that include the words “influenza” or “flu,” or complaints that contain fever plus cough or sore throat.

Overall activity for ILI reported in ESSENCE-FL is near expected levels for this time of year.

Florida Pneumonia and Influenza Mortality Surveillance

ESSENCE-FL now displays electronic vital statistics death record data from all 67 Florida counties. For pneumonia and influenza surveillance, death record literals are queried in ESSENCE-FL using a free-text query that searches for references to pneumonia and influenza on death certificates. Any mention of pneumonia or influenza in the death certificate literals, with certain exceptions, is counted as a pneumonia and influenza death. Current season pneumonia and influenza death numbers are preliminary estimates, and may change as more data are received. The most recent data available are displayed here. ESSENCE-FL vital statistics death records data are currently considered to be complete through week 35, 2013.

For week 35 (ending August 30, 2013), there were:
- 139 preliminary estimated pneumonia and influenza deaths reported
- Upper bound of 95% confidence interval for prediction: 170 deaths
- No excess deaths

Death records data reported into ESSENCE-FL are currently considered to be complete through week 35, 2013.

Influenza and ILI Outbreaks

TABLE 2: Summary of Florida ILI Outbreaks by Facility Type, Week 21, 2013-Week 36, 2013

<table>
<thead>
<tr>
<th>Facility Type</th>
<th>Number of Outbreaks</th>
<th>Implicated Viruses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Correctional facility or jail</td>
<td>2</td>
<td>Two outbreaks were due to influenza A 2009 H1N1</td>
</tr>
<tr>
<td>Nursing home</td>
<td>1</td>
<td>One outbreak was due to influenza A H3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>3</strong></td>
<td>Two outbreaks were due to influenza A 2009 H1N1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>One outbreak was due to influenza A H3</td>
</tr>
</tbody>
</table>

Map 1: Influenza and ILI outbreaks by County, Week 21, 2012 - Week 36, 2013 as Reported by 9:00 a.m. September 11, 2013

Three influenza or ILI outbreaks have been reported into EpiCom since week 21, 2013.