Influenza Surveillance Report
Week 4: Jan 23rd – Jan 29th, 2011

I. Influenza Summary to Date
Influenza surveillance for suburban Cook County** involves the weekly collection of data from a sample of hospitals, private physician’s offices, and laboratory data. The current level of influenza activity is high. Our sentinel participants reported the following aggregate measures: Syndromic Surveillance: 2.18% ILI\textsuperscript{1}, Sentinel Sites: 9.62% ILI\textsuperscript{2}. One hundred sixty (26.53%) specimens tested by participating laboratories were positive for influenza (128 influenza A and 32 influenza B). Of the subtyped influenza A isolates, sixty-four (51.2%) were H3N2 and sixty-one (48.8%) were H1N1. Since October 3\textsuperscript{rd}, 2010 (week 40), suburban Cook County has had 24 confirmed cases of influenza-associated intensive care unit (ICU) hospitalizations. During week 4, 9 ICU hospitalizations due to influenza infection were reported to CCDPH. Thank you to all of our surveillance partners for their help in collecting this information.

II. Syndromic Surveillance Data\textsuperscript{1}

III. Syndromic Surveillance by Age Group Data\textsuperscript{1}
IV. Sentinel Provider Data

- Baseline
- 2007 - 2008
- 2008 - 2009
- 2009 - 2010
- 2010 - 2011

% of Visits for ILI

Week Number

V. Laboratory Surveillance Data

- A H1N1
- A (could not be subtyped)
- A Unsubtyped
- A H3N2
- B

% Positive Specimens

Week Number

VI. ICU Hospitalization Data

<table>
<thead>
<tr>
<th>Hospitalized Case Counts</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cases</td>
<td>24</td>
</tr>
<tr>
<td>Incidence by Age</td>
<td></td>
</tr>
<tr>
<td>0-4</td>
<td>2</td>
</tr>
<tr>
<td>5-24</td>
<td>2</td>
</tr>
<tr>
<td>25-49</td>
<td>6</td>
</tr>
<tr>
<td>50-64</td>
<td>7</td>
</tr>
<tr>
<td>65+</td>
<td>6</td>
</tr>
<tr>
<td>Unknown</td>
<td>1</td>
</tr>
<tr>
<td>Incidence by Region</td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>11</td>
</tr>
<tr>
<td>West</td>
<td>4</td>
</tr>
<tr>
<td>Southwest</td>
<td>2</td>
</tr>
<tr>
<td>South</td>
<td>7</td>
</tr>
</tbody>
</table>
VII. Regional Data

VIII. Illinois and U.S. Data

†(All data are preliminary and may change as more reports are received.)


1. Syndromic surveillance influenza-like-illness (ILI) syndrome is defined as a symptom complex fever and cough or sore throat from ESSENCE. 32 hospital EDs participate in ESSENCE. ILI = # of ED visits for ILI / total # of ED visits.
2. ILI is defined as fever $\geq$ 100°F, cough and/or sore throat in the absence of a known cause other than influenza. 5 hospital EDs and 8 physician offices are participating CDC sentinel sites.
3. Laboratory surveillance includes viral culture, RT-PCR, and the rapid antigen test. Not all cases are suburban Cook County Residents.
Participating laboratories: IDPH, NSUHS, and ACL.
4. ICU hospitalization data are only for suburban Cook County residents (excludes Evanston, Skokie, Oak Park, and Stickney). Data includes reported cases for the presented week.
†No activity: no laboratory confirmed cases of influenza and no reported increase in cases of ILI.
Sporadic: small number of laboratory confirmed influenza cases or a single laboratory confirmed influenza in a single region of the state.
Local: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in a single region of the state.
Regional: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the region of the state.
Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory confirmed influenza in at least half the region in the state.