Influenza Surveillance Report
Week 47: November 22th – 28th, 2009

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. Our sentinel participants reported the following aggregate measures: Syndromic Surveillance: 3.00% ILI¹, Sentinel Sites: 5.52% ILI². 215 (21.18%) specimens tested by participating laboratories³ were positive for influenza, of which 100% of sub-typed influenza A viruses were 2009 H1N1. This is the third consecutive week that influenza activity has decreased, and the activity level has continued to decrease across all data sources. To date, suburban Cook County has had 488 hospitalized cases of confirmed 2009 H1N1, 11 2009 H1N1 deaths, and 1 pediatric influenza death. During weeks 46 and 47, forty 2009 H1N1 hospitalizations were reported to CDPH. Thank you to all of our surveillance partners for their help in collecting this information.

II. Syndromic Surveillance Data¹

III. Syndromic Surveillance by Age Group Data¹
IV. Sentinel Provider Data

- Baseline
- 2007
- 2008
- 2009

% of Visits for ILI

Week Number

V. Laboratory Surveillance Data

Week Number

- A 2009 H1N1
- A (could not be subtyped)
- A Unsubtyped
- A H3N2
- A Seasonal H1N1
- B

% Positive Specimens

Number of Positive Specimens

Week Number

VI. 2009 H1N1 Hospitalization and Death Data

Hospitalized Case Counts

<table>
<thead>
<tr>
<th>Incidence by Age</th>
<th>0-4</th>
<th>5-24</th>
<th>25-49</th>
<th>50-64</th>
<th>65+</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cases</td>
<td>77</td>
<td>152</td>
<td>143</td>
<td>83</td>
<td>33</td>
<td>0</td>
</tr>
<tr>
<td>Total Deaths</td>
<td>11</td>
<td></td>
<td></td>
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</tbody>
</table>

Incidence by Region

<table>
<thead>
<tr>
<th>Incidence by Region</th>
<th>North</th>
<th>West</th>
<th>Southwest</th>
<th>South</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cases</td>
<td>184</td>
<td>119</td>
<td>67</td>
<td>117</td>
</tr>
</tbody>
</table>
VII. Regional Data

VIII. Illinois and U.S. Data

† 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.


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 ° 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. Hospitalization and death data are only for suburban Cook County residents (excludes Evanston, Skokie, Oak Park, and Stickney). Data includes reported cases for the presented week.