**Influenza Surveillance Report**  
*Week 9: February 28th – March 6th, 2010*

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: 1.10% ILI, Sentinel Sites: 4.45% ILI. Five (1.92%) specimens tested by participating laboratories were positive for influenza, of which 100% of sub-typed influenza A viruses were 2009 H1N1. The current level of influenza activity is typical for this time of year. To date, suburban Cook County has had 597 hospitalized cases of confirmed 2009 H1N1, 18 2009 H1N1 deaths (16 adults, 2 pediatric), and 1 pediatric influenza A (unsubtyped) death. During weeks 8 and 9, one 2009 H1N1 hospitalization was reported to CCDPH. Thank you to all of our surveillance partners for their help in collecting this information.

II. Syndromic Surveillance Data

![Graph showing data for different years from 2006-07 to 2009-10.]

III. Syndromic Surveillance by Age Group Data

![Graph showing data for different age groups from 0-4 yrs, 5-17 yrs, 18-64 yrs, 65+ yrs, and All Ages.]

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1. The graphs illustrate the percentage of visits for ILI (Influenza-Like Illness) by week and by age group. The data includes baseline percentages and comparison for different years (2006-07 to 2009-10). The graphs show fluctuations in ILI percentages across weeks and age groups, highlighting trends and peaks in influenza activity.
IV. Sentinel Provider Data

![Chart showing % of Visits for ILI over time]

- Baseline
- 2006-07
- 2007-08
- 2008-09
- 2009-10

V. Laboratory Surveillance Data

![Chart showing Number of Positive Specimens over time]

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

VI. 2009 H1N1 Hospitalization and Death Data

<table>
<thead>
<tr>
<th>Hospitalized Case Counts</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cases</td>
<td>597</td>
</tr>
<tr>
<td>Total Deaths</td>
<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incidence by Age</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>97</td>
</tr>
<tr>
<td>5-24</td>
<td>174</td>
</tr>
<tr>
<td>25-49</td>
<td>176</td>
</tr>
<tr>
<td>50-64</td>
<td>109</td>
</tr>
<tr>
<td>65+</td>
<td>41</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incidence by Region</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>214</td>
</tr>
<tr>
<td>West</td>
<td>157</td>
</tr>
<tr>
<td>Southwest</td>
<td>85</td>
</tr>
<tr>
<td>South</td>
<td>139</td>
</tr>
</tbody>
</table>

![Bar chart showing Hospitalized Confirmed Cases of 2009 H1N1 by Onset Week]
VII. Regional Data

1. Syndromic surveillance influenza-like-illness (ILI) syndrome is defined as a symptom complex of 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 \( \geq 100^\circ F \), 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.


† 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.

VIII. Illinois and U.S. Data†

A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending March 06, 2010 - Week 9

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