Influenza Surveillance Report
Week 12: Mar 20th – Mar 26th, 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 moderate. Our sentinel participants reported the following aggregate measures: Syndromic Surveillance: 1.51% ILI¹, Sentinel Sites: 5.91% ILI². Sixty-seven (16.7%) specimens tested by participating laboratories were positive for influenza (37 influenza A and 30 influenza B). Of the subtyped influenza A isolates, twenty-four (85.7%) were H3N2 and four (14.3%) were H1N1. Since October 3rd, 2010 (week 40), suburban Cook County has had 72 confirmed cases of influenza-associated intensive care unit (ICU) hospitalizations. During week 12, 1 ICU hospitalization due to influenza infection was reported to CCDPH. 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
- 2008 - 2009
- 2009 - 2010
- 2010 - 2011

% of Visits for ILI

Week Number

V. Laboratory Surveillance Data

- Number of Positive Specimens
- % Positive Specimens

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

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>72</td>
</tr>
</tbody>
</table>

Incidence by Age

- 0-4: 6
- 5-24: 9
- 25-49: 12
- 50-64: 17
- 65+: 28

Incidence by Region

- North: 36
- West: 10
- Southwest: 12
- South: 14

No. of ICU Hospitalizations

Week

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.


† 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.