Influenza Surveillance Report
Week 50: Dec 12th – Dec 18th, 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: 1.05% ILI\(^1\), Sentinel Sites: 3.00% ILI\(^2\). Twenty-two (9.87%) specimens tested by participating laboratories\(^3\) were positive for influenza. The risk of influenza infection is low; however influenza activity is increasing. Since January 1\(^{st}\), 2010, suburban Cook County has had 9 confirmed cases of influenza intensive care unit (ICU) hospitalizations. During week 50, one 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 Data\(^1\)

III. Syndromic Surveillance by Age Group Data\(^1\)

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*\(^1\)* Baseline

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Week Number

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Week Number

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IV. Sentinel Provider Data

- Baseline
- 2008
- 2009
- 2010

% of Visits for ILI

Week Number

V. Laboratory Surveillance Data

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

Week Number

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>9</td>
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Incidence by Age #

- 0-4: 0
- 5-24: 2
- 25-49: 0
- 50-64: 6
- 65+: 1

Incidence by Region #

- North: 4
- West: 1
- Southwest: 3
- South: 1
VII. Regional Data

- Cook
- Chicago
- DuPage
- Kane
- Winnebago

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 December 18, 2010 - Week 50

(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 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.