Influenza Surveillance Report
Week 51: December 20th - 26th, 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: 1.98% ILI, Sentinel Sites: 7.64% ILI. Twenty-five (5.95%) specimens tested by participating laboratories were positive for influenza, of which 100% of sub-typed influenza A viruses were 2009 H1N1. This is the first week that influenza activity has increased since peaking during the first week of November. To date, suburban Cook County has had 569 hospitalized cases of confirmed 2009 H1N1, 14 2009 H1N1 deaths, and 1 pediatric influenza death. During weeks 50 and 51, twenty-three 2009 H1N1 hospitalizations were reported to CCDPH. Thank you to all of our surveillance partners for their help in collecting this information.

II. Syndromic Surveillance Data

III. Syndromic Surveillance by Age Group Data

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

0-4 yrs 
5-17 yrs 
18-64 yrs 
65+ yrs 
All Ages
IV. Sentinel Provider Data

A line chart showing the percentage of visits for ILI over several years (2006-07 to 2009-10).

V. Laboratory Surveillance Data

A bar chart showing the number of positive specimens by virus subtypes over weeks.

VI. 2009 H1N1 Hospitalization and Death Data

A histogram showing the number of hospitalized confirmed cases of 2009 H1N1 by onset week.

### Hospitalized Case Counts
- Total Cases: 569
- Total Deaths: 14

#### Incidence by Age
- 0-4: 92
- 5-24: 168
- 25-49: 170
- 50-64: 98
- 65+: 38
- Unknown: 3

#### Incidence by Region
- North: 205
- West: 151
- Southwest: 79
- South: 132
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 $\geq 100^\circ F$, 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.