Influenza Surveillance Report
Week 44: Oct 31st – Nov 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: 0.72% ILI1, Sentinel Sites: 3.27% ILI2. Zero (0.00%) specimens tested by participating laboratories3 were positive for influenza. The current level of influenza activity is low, as expected for this time of year. Since January 1st, 2010, suburban Cook County has had 7 confirmed cases of influenza intensive care unit (ICU) hospitalizations. During week 44, no ICU hospitalizations due to influenza infection were 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

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Note: The graphs in the document are not fully described in the text. The graphs show trends over weeks for different age groups and years (2008, 2009, 2010) for ILI visits. The data is presented in a line graph format.
IV. Sentinel Provider Data

% of Visits for ILI

Week Number

0 10 20 30 40 50 60 70 80 90 100

Baseline 2008 2009 2010

V. Laboratory Surveillance Data

Week Number

Number of Positive Specimens

A  H1N1
A (could not be subtyped)
A Unsubtyped
A H3N2
B

Percent Positive

60 70 80 90 100

VI. 2009 H1N1 Hospitalization and Death Data

Hospitalized Case Counts #
Total Cases 7

Incidences by Age #

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

Incidences by Region #
North West Southwest South
4 0 2 1

No. of ICU Hospitalizations

Week

0 1 2 3

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43
VII. Regional Data

VIII. Illinois and U.S. 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°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.