Chicago Department of Public Health



Chicago Flu Update Chicago Department of Pub



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Rahm Emanuel, Mayor Influenza Activity

Chicagoans remain at risk for influenza infections. Although influenza activity continues to decrease, data from all surveillance systems presented in this report suggest ongoing transmission of influenza virus in Chicago. Vaccination is the best way to protect against influenza infection and all Chicagoans aged six months and older are encouraged to get vaccinated. People who have not already gotten a flu vaccine this season should do so now. Healthcare providers and retail pharmacies continue to have vaccine available. For those without healthcare providers or insurance, a complete list of CDPH Immunization clinics¹ is available on the City website and by calling 311.

Are severe cases of influenza occurring?

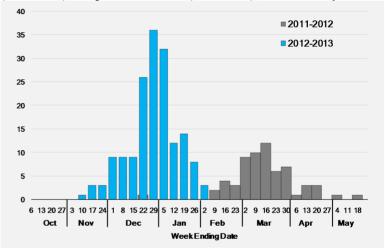
associated deaths, influenza-associated ICU hospitalizations and outbreaks of influenza-like illness in a congregate setting should all be reported to CDPH via INEDSS². For the week of January 27-February 2, 2013 (week 5), 3 influenza-associated ICU hospitalizations were reported; all were positive for influenza A (1 H3N2 and 2 were not subtyped). This is the lowest number of cases reported in a week since late-November and a 92% decrease from the highest reported this season.

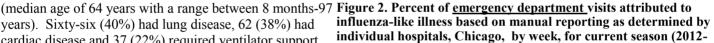
Since September 30, 2012, 165 influenza-associated ICU hospitalizations have been reported (Figure 1). Among the total ICU hospitalizations reported, 159 (96%) were positive for influenza A (70 H3N2, 6 H1N1, and 83 not subtyped) and 6 were positive for influenza B. Ninetyeight (59%) were female, 61 (37%) were African-American, and 123 (75%) were 50 years of age or older years). Sixty-six (40%) had lung disease, 62 (38%) had cardiac disease and 37 (22%) required ventilator support. Thirteen deaths were reported including one under 18 years ¹⁰ of age. All were positive for influenza A (46% subtyped as H3N2), twelve (92%) were 50 years of age or older, 62% were female, 62% were NH-White, and 54% had cardiac disease.

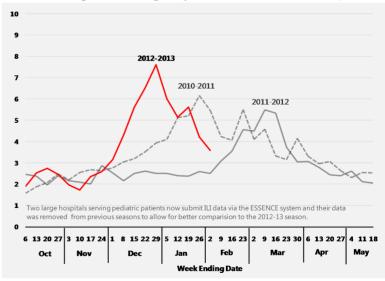
How much influenza-like illness is occurring?

CDPH receives data from over 50 surveillance sites across Chicago, which report the total number of patient visits per week, and of those visits, the number with influenza-like illness (ILI) (i.e., fever of 100°F or greater, with cough or sore throat). All hospitals in Chicago are required to report on a weekly basis the total number of emergency department visits, and of those visits, the number with ILI. For the week of January 27-February 2, 2013, with 15 hospitals reporting, 3.6% of emergency department visits were due to ILI. This is four percentage points lower than the highest level reported so far this season and is the lowest level reported since early December (Figure 2).

Figure 1. Number of influenza-associated intensive care unit Suspected novel and variant influenza, pediatric influenza- hospitalizations reported for Chicago residents, for current season (2012-2013) and previous season (2011-2012), October-May.







ESSENCE is an electronic syndromic surveillance system that utilizes emergency department chief complaint data submitted daily by participating Chicago hospitals. Currently, 9 Chicago hospitals submit data to ESSENCE. Figure 3 shows the percent of the total emergency department visits due to ILI for pediatric patients (3.0%) and adult patients (2.3%) for the week of January 27-February 2, 2013 plus the ILI activity by age group for the previous season. This is the fourth consecutive week that adult ILI levels have decreased and pediatric ILI levels are at similar levels seen for the same week last season.

Several outpatient clinics and two large outpatient clinic networks located in Chicago participate in CDC's Influenza-like Illness Surveillance Network (**ILINet**) by reporting on the number of patients with ILI seen weekly. From January 27-February 2, 2013, with **36** outpatient clinics reporting, **4.6%** of doctor's office visits were due to influenza-like illness. This is the nearly three percentage points lower than the peak reported in late December, yet remains higher than levels seen for the same week during the past two influenza seasons (**Figure 4**).

Which influenza strains are circulating?

Data on influenza virus test results are reported by Chicago laboratories performing influenza subtyping. For the week of January 27-February 2, 2013, with 7 laboratories reporting, **36** of the 554 (6.5%) specimens tested for influenza were positive. Among the positive specimens, 31 were typed as influenza A (13 H3N2, 4 2009 H1N1, and 14 were not subtyped) and 5 typed as influenza B (Figure 5). Since September 2012, 1,338 of 8,263 (16.%) specimens tested for influenza have been positive; 1,293 typed as influenza A (1,027 H3N2, 82 2009 H1N1, and 184 not subtyped) and 45 typed as influenza B.

Where can I get more information?

The Centers for Disease Control and Prevention's <u>FluView</u>³ report provides national updates and trends related to the intensity of influenza activity across the United States, as well as detailed information on antiviral resistance, severity of illness, and other topics. Updates specific to <u>Illinois</u>⁴ and <u>Suburban Cook County</u>⁵ are also available online. Current and archived issues of the *Chicago Flu Update* can be found on the CDPH website section <u>Current Flu Situation in Chicago</u>⁶.

National Snapshot (January 27-February 2, 2013)

<u>Viral Surveillance</u>: Of 10,132 specimens tested and reported by collaborating laboratories, 2,362 (23.3%) were positive for influenza.

<u>Pneumonia and Influenza Mortality</u>: The proportion of deaths attributed to pneumonia and influenza (P&I) was above the epidemic threshold.

<u>Influenza-associated Pediatric Deaths</u>: Fourteen pediatric deaths were reported.

<u>Influenza-Associated Hospitalizations</u>: A cumulative rate for the season of 29.8 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported. Of all hospitalizations, more than 50% were among adults 65 years and older.

Outpatient Illness Surveillance: The proportion of outpatient visits for influenza-like illness (ILI) was 3.6%. This is above the national baseline of 2.2%. All 10 regions reported ILI above regionspecific baseline levels. Nineteen states and New York City experienced high ILI activity; 12 states experienced moderate activity; 13 states experienced low activity; 6 states experienced minimal activity; and the District of Columbia had insufficient data.

<u>Geographic Spread of Influenza</u>: Thirty-eight states reported widespread influenza activity; 9 states reported regional influenza activity; the District of Columbia, Puerto Rico and 2 states reported local influenza activity; one state reported sporadic influenza activity; Guam reported no influenza activity, and the U.S. Virgin Islands did not report.

Figure 3. Percent of <u>emergency department</u> visits attributed to influenza-like illness* based on chief complaint data submitted to <u>ESSENCE</u>, Chicago, by week, for current season (2012-2013) and previous season (2011-2012), October-May.

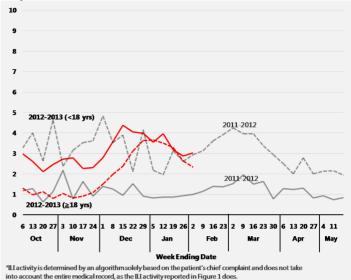


Figure 4. Percent of <u>outpatient</u> visits attributed to influenzalike illness, Chicago, by week, for current season (2012-2013) and previous two seasons, October-May.

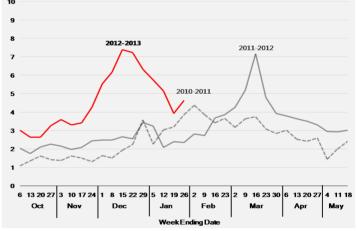
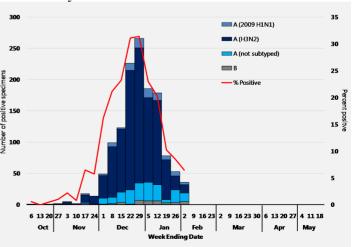


Figure 5. Percent of specimens testing positive (by RT-PCR) for influenza by subtype as reported by local laboratories serving Chicago hospitals, for the current season (2012-2013) October-May.



³http://www.cdc.gov/flu/weekly/index.htm; ⁴http://www.idph.state.il.us/flu/surveillance.htm; ⁵http://www.cookcountypublichealth.org/datareports#Influenza; ⁶http://www.cityofchicago.org/city/en/depts/cdph/supp_info/influenza/current_flu_situationinchicago2011.html