

Chicago Flu Update HEALTHY CHICAGO DEPARTMENT OF PUBLIC HEALTHY CHICAGO DEPARTMENT OF PUBLIC HEALTHY Chicago Department of Public Healthy

Rahm Emanuel, Mayor

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Bechara Choucair, MD, Commissionel

What is the risk?

Currently, the risk of influenza infection is increasing and the predominant circulating strain is influenza A (H1N1) pdm09. Vaccination is the best way to protect against influenza infection and all Chicagoans aged six months and older are encouraged to get vaccinated. Some children 6 months through 8 years of age require two doses of influenza vaccine. Children in this age group who are getting vaccinated for the first time, as well as some who have been vaccinated previously, will need two doses. Click <u>here</u>¹ for the full recommendations for children younger than 9 years. Chicagoans should ask their healthcare provider or pharmacist about vaccine availability. For those without a healthcare provider or whose healthcare providers do not have the influenza vaccine, call 311 or go to <u>www.chicagoflushots.org</u>² to locate the closest City of Chicago clinic or retail pharmacy.

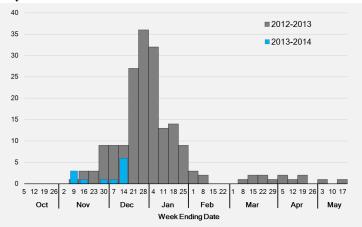
Are severe cases of influenza occurring?

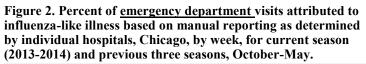
The Illinois Department of Public Health (IDPH) has issued influenza testing and reporting guidance³. Suspected novel and variant influenza, pediatric influenzaassociated deaths, influenza-associated ICU hospitalizations and outbreaks of influenza-like illness in a congregate setting should all be reported to CDPH via <u>I-</u> <u>NEDSS⁴</u>. For the week of December 8-14, 2013 (week 50), 6 influenza-associated ICU hospitalizations were reported; 5 were positive for influenza A (2 [H1N1] pdm09 and 3 unknown subtype [subtyping not attempted or not all subtypes tested]) and 1 was positive for influenza B. This week last season, there were 9 reported ICU hospitalizations.

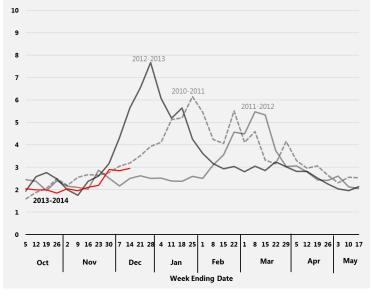
Since September 29, 2013, 12 influenza-associated ICU hospitalizations have been reported (**Figure 1**). Among the total ICU hospitalizations reported 11 were positive for influenza A (4 [H1N1]pdm09 and 7 unknown sub-type) and 1 was positive for influenza B. Seven (58.3%) were female, six (50%) were 50 years of age or older, and three (25%) were 4 years of age or younger (median age of 49.5 years with a range of 4 months-83 years). There was an equal distribution among racial/ethnic groups. Eight (66.6%) had lung disease (including asthma) and five (41.6%) required ventilator support. No deaths have been reported.

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 seen weekly, 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 that provide emergent care 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 December 8-14, 2013, with 15 hospitals reporting, 2.9% of emergency department visits were due to

Figure 1. Number of influenza-associated intensive care unit hospitalizations reported for Chicago residents, for current season (2013-2014) and previous season (2012-2013), October-May.







ILI. This is the fifth consecutive week that an increase has been noted (Figure 2).

ESSENCE is an electronic syndromic surveillance system that utilizes emergency department chief complaint data submitted daily by participating Chicago hospitals. ILI activity is determined solely based on the patient's chief complaint and does not take into account the entire medical record, as the ILI activity reported in Figure 2 does.

Currently, 9 Chicago hospitals submit data to ES-SENCE. **Figure 3** shows the percent of the total emergency department visits due to ILI for pediatric patients (3.0%) and adult patients (1.6%) for the week of December 8-14, 2013 plus the ILI activity by age group for the previous season.

Several outpatient clinics and hospital emergency departments throughout Chicago participate in CDC's Influenza-like Illness Surveillance Network (**ILINet**) by reporting on the number of patients with ILI seen weekly. From December 8-14, 2013, with 46 facilities reporting, 3.7% of outpatient visits were due to influenza-like illness. Currently, ILI activity is two percentage points lower than levels seen during the same week last season (**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 December 8-14, 2013, with 6 laboratories reporting, 32 of the 449 (7.1%) specimens tested for influenza were positive. This week last season, 23.2% of specimens tested were positive for influenza. Among this week's positive specimens, 27 were typed as influenza A (23 [H1N1]pdm09 and 4 unknown subtype) and 5 were typed as influenza B (**Figure 5**). Since September 29, 2013, 83 of 3,876 (2.1%) specimens tested for influenza have been positive; 76 typed as influenza A (56 [H1N1]pdm09, 1 H3N2, and 19 unknown subtype) and 7 typed as influenza B.

Where can I get more information?

The Centers for Disease Control and Prevention's FluView⁵ 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 Illinois⁶ and Suburban Cook County⁷ 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>⁸. The Metropolitan Chicago Healthcare Council (MCHC) and CDPH recently released "Stop the Spread: A Health Care Guide to Influenza Preparedness"9. This report provides an overview of influenza, it's impact on public health and how hospitals can prepare for, mitigate the impact of and respond to influenza infections and outbreaks.

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 (2013-2014) and previous season (2012-2013), October-May.

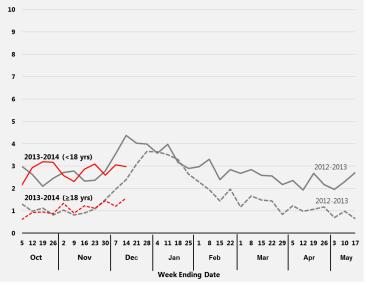


Figure 4. Percent of medically attended visits attributed to influenza-like illness as reported by ILINet facilities, Chicago, by week, for current season (2013-2014) and previous three influenza seasons, October-May.

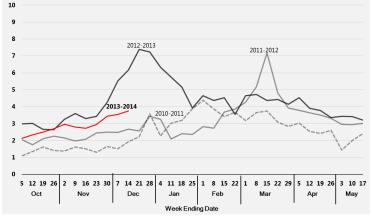
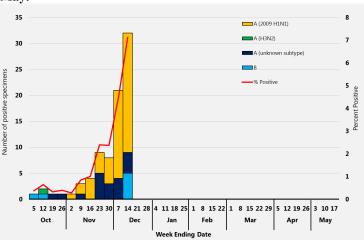


Figure 5. Percent of specimens testing positive (by RT-PCR) for influenza by subtype as reported by local laboratories serving Chicago hospitals, for the current season (2013-2014) October-May.



⁵http://www.cdc.gov/flu/weekly/index.htm; ⁶http://www.idph.state.il.us/flu/surveillance.htm; ⁷http://www.cookcountypublichealth.org/datareports#Influenza; ⁸http://www.cityofchicago.org/city/en/depts/cdph/supp_info/influenza/current_flu_situationinchicago2011.html; ⁹http:// www.mchc.com/EWEB/upload/MCHC_Influenza_2013.pdf