



Chicago Flu Update



City of Chicago
Rahm Emanuel, Mayor

May 23, 2014

Chicago Department of Public Health
Bechara Choucair, MD, Commissioner

What is the risk?

Influenza activity remains low throughout Chicago. Nonetheless, influenza viruses are still circulating and causing disease. CDC and CDPH recommend vaccination as long as influenza viruses are circulating. Vaccination is the best way to prevent influenza infections. All unvaccinated Chicagoans aged six months and older are encouraged to get vaccinated. 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 www.chicagoflushots.org to locate the closest City of Chicago clinic or retail pharmacy. [CDC recommends](#)¹ antiviral treatment as early as possible for any patient with confirmed or suspected influenza who is hospitalized, has severe illness or is at higher risk for serious complications. This will be the last *Chicago Flu Update* issued for this influenza season. The next update will be issued in October 2014. CDPH will continue to monitor surveillance indicators throughout the summer months.

Are severe cases of influenza occurring?

The Illinois Department of Public Health (IDPH) has issued [influenza testing and reporting guidance](#)². Suspected novel and variant influenza, pediatric influenza-associated deaths, influenza-associated ICU hospitalizations and outbreaks of influenza-like illness in a congregate setting should all be reported to CDPH via [L-NEDSS](#)³. For the week of May 11-17, 2014 (week 20), two influenza-associated ICU hospitalizations were reported; 1 was positive for influenza A (H3N2) and 1 was positive for influenza B. So far this season there has been a 7.7% increase in the number of reported cases compared to last season.

Since September 29, 2013, 197 influenza-associated ICU hospitalizations have been reported (**Figure 1**). Among the total ICU hospitalizations reported 169 were positive for influenza A (84 [H1N1]pdm09, 2 H3N2, and 83 unknown subtype [subtyping not attempted or not all subtypes tested]) and 28 were positive for influenza B. One hundred one (51%) were female, 120 (61%) were 50 years of age or older, and 18 (9%) were 4 years of age or younger (median age of 57 years with a range of 2 months-102 years). Eighty-seven (44%) were NH-Black, 69 (35%) had lung disease (including asthma) and 66 (34%) required ventilator support. Sixteen deaths have been reported among the total ICU hospitalizations including one pediatric death.

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 May 11-17, 2014, with 14 hospitals reporting, 2.4% of emergency department visits were due to ILI. (**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.

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.

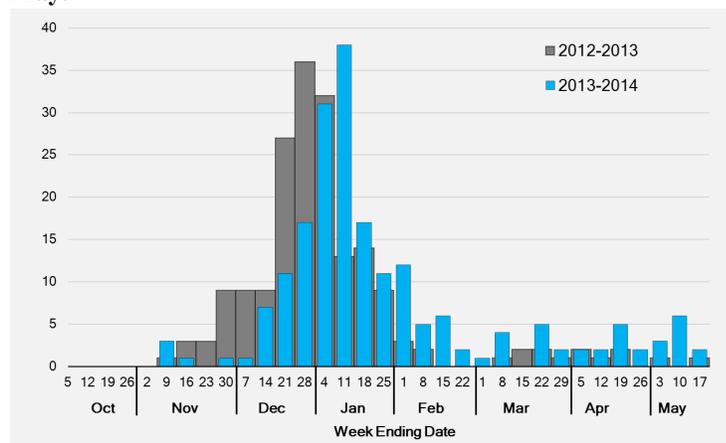
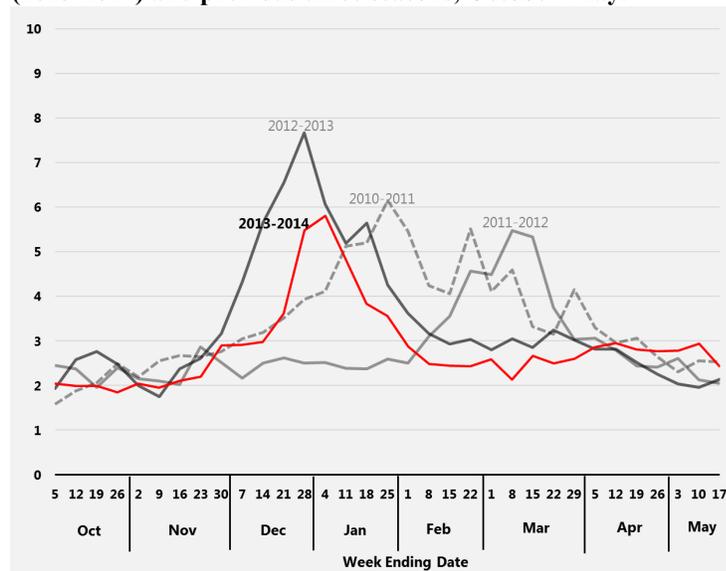


Figure 2. Percent of emergency department visits attributed to influenza-like illness based on manual reporting as determined by individual hospitals, Chicago, by week, for current season (2013-2014) and previous three seasons, October-May.



¹https://www.chicagohan.org/c/document_library/get_file?p_l_id=64868&folderId=39923&name=DLFE-466.pdf; ² [http://www.idph.state.il.us/flu/Influenza Annual Testing and Reporting Memo 09252013.pdf](http://www.idph.state.il.us/flu/Influenza%20Annual%20Testing%20and%20Reporting%20Memo%2009252013.pdf); ³<https://dph.partner.illinois.gov/>

Currently, 10 Chicago hospitals submit data to ESSENCE. **Figure 3** shows the percent of the total emergency department visits due to ILI for pediatric patients (2.4%) and adult patients (0.9%) for the week of May 11-17, 2014 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 May 11-17, 2014, with 52 facilities reporting, 2.8% of outpatient visits were due to influenza-like illness (**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 May 11-17, 2014, with 5 laboratories reporting, 20 of the 387 (5.2%) specimens tested for influenza were positive. This week last season, 1.5% of specimens tested were positive for influenza. Among this week's positive specimens, 3 were typed as influenza A (1 [H1N1]pdm09, 1 H3N2, and 1 unknown subtype) and 17 were typed as influenza B (**Figure 5**). Since September 29, 2013, 1,212 of 14,746 (8.2%) specimens tested for influenza have been positive; 960 typed as influenza A (677 [H1N1]pdm09, 37 H3N2, and 246 unknown subtype) and 252 typed as influenza B.

Where can I get more information?

The Centers for Disease Control and Prevention's [FluView](#)⁴ 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 [Illinois](#)⁵ and [Suburban Cook County](#)⁶ are also available online. Current and archived issues of the *Chicago Flu Update* can be found on the CDPH website section [Current Flu Situation in Chicago](#)⁷. In January, IDPH released a [memo](#)⁸ recommending that during periods of widespread influenza activity hospitals should implement all of the comprehensive influenza prevention and control recommendations from the CDC.

Figure 3. Percent of emergency department visits attributed to influenza-like illness based on chief complaint data submitted to ESSENCE, Chicago, by week, for current season (2013-2014) and previous season (2012-2013), October-May.

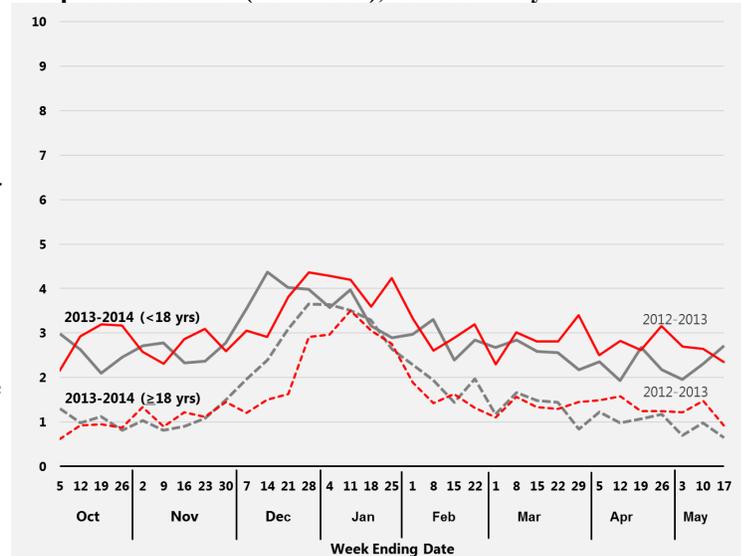


Figure 4. Percent of medically attended visits attributed to influenza-like illness as reported by ILINet facilities, Chicago, by week, for current season (2013-2014) and previous three influenza seasons, October-May.

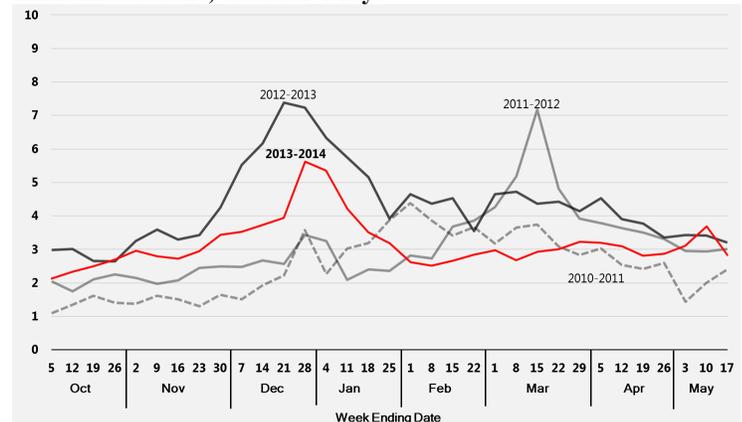
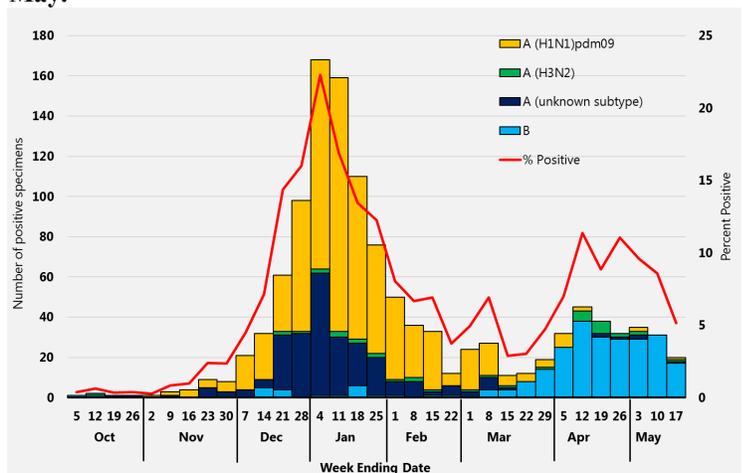


Figure 5. Percent of specimens testing positive (by RT-PCR) for influenza by subtype as reported by local laboratories serving Chicago hospitals, for the current season (2013-2014) October-May.



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⁴<http://www.cdc.gov/flu/weekly/index.htm>; ⁵<http://www.idph.state.il.us/flu/surveillance.htm>; ⁶<http://www.cookcountypublichealth.org/data-reports#Influenza>; ⁷http://www.cityofchicago.org/city/en/depts/cdph/supp_info/influenza/current_flu_situationinchicago2011.html; ⁸https://www.chicagohan.org/c/document_library/get_file?p_l_id=64868&folderId=39923&name=DLFE-477.pdf