What is the risk?
CDPH’s influenza surveillance systems indicate the influenza activity is decreasing. However, influenza viruses continue to circulate and cause disease. The majority of infections are due to influenza A (H1N1) pdm09 strain, which is included in all 2013-2014 influenza vaccines. 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. 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** 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.

Are severe cases of influenza occurring?
The Illinois Department of Public Health (IDPH) has issued influenza testing and reporting guidance. 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 I-NEDSS. For the week of January 26-February 1, 2014 (week 5), 11 influenza-associated ICU hospitalizations were reported; 10 were positive for influenza A (4 [H1N1]pdm09 and 6 unknown subtype [subtyping not attempted or not all subtypes tested]) and 1 was positive for influenza B. This week last season, there were 3 ICU hospitalizations reported.

Since September 29, 2013, 148 influenza-associated ICU hospitalizations have been reported (Figure 1). Among the total ICU hospitalizations reported 143 were positive for influenza A (68 [H1N1]pdm09 and 75 unknown subtype) and 5 was positive for influenza B. Seventy-four (50%) were female, 87 (59%) were 50 years of age or older, and 13 (9%) were 4 years of age or younger (median age of 55 years with a range of 2 months-86 years). Sixty-four (43%) were Black, 53 (36%) had lung disease (including asthma) and 51 (34.5%) required ventilator support. Thirteen deaths have been reported among the total ICU hospitalizations.

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 January 26-February 1, 2014, with 15 hospitals reporting, 2.7% of emergency department visits were due to ILI (Figure 2).

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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 ESSENCE. Figure 3 shows the percent of the total emergency department visits due to ILI for pediatric patients (3.3%) and adult patients (1.9%) for the week of January 26-February 1, 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 January 26-February 1, 2014, with 53 facilities reporting, 2.6% of outpatient visits were due to influenza-like illness. This is the fifth consecutive week that a decrease has been noted (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 26-February 1, 2014, with 6 laboratories reporting, 50 of the 621 (8.1%) specimens tested for influenza were positive. This week last season, 6.5% of specimens tested were positive for influenza. Among this week’s positive specimens, 49 were typed as influenza A (41 [H1N1]pdm09, 1 H3N2 and 7 unknown subtype) and 1 was typed as influenza B (Figure 5). Since September 29, 2013, 805 of 8664 (9.3%) specimens tested for influenza have been positive; 784 typed as influenza A (556 [H1N1]pdm09, 14 H3N2, and 215 unknown subtype) and 21 typed as influenza B.

Where can I get more information?
The Centers for Disease Control and Prevention’s FluView 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 and Suburban Cook County 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. In January, IDPH released a memo recommending that during periods of widespread influenza activity hospitals should implement all of the comprehensive influenza prevention and control recommendations from the CDC.

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