What is the risk?
Currently, the risk of influenza infection is low. Vaccination is the best way to protect against influenza infection and all 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, a schedule of City of Chicago influenza vaccine clinics is available on the City website and by calling 311. To locate the closest City of Chicago clinic or retail pharmacy, go to www.chicagoflushots.org.

Are severe cases of influenza occurring?
The Illinois Department of Public Health (IDPH) has issued interim influenza testing and reporting recommendations. 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 INEDSS. For the week of October 5-11, 2014, no influenza-associated ICU hospitalizations were reported. During the 2010-2011 and 2011-2012 influenza seasons the first 10% of the total number of reported ICU hospitalizations occurred in early January and mid-February and did not reach above a hundred reported cases (Figure 1). However, during the 2012-2013 and 2013-2014 seasons, the first ten percent of cases were reported by early to mid-December and the total number of reported cases were nearly double than the previous two seasons.

How much influenza-like illness is occurring?
CDPH receives data from over 60 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 October 5-11, 2014 (week 41), with 12 hospitals reporting, 1.8% 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.

Currently, 10 Chicago hospitals submit data to ESSENCE. For the week of October 5-11, 2014, <1% of emergency department visits were due to ILI (Figure 3). 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. For the 2013-2014 season (including summer months) nearly one million patients were seen in ILINet facilities. From October 5-11, 2014, with 47 facilities reporting, 2.3% of 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 October 5-11, 2014, with 6 laboratories reporting, 2 of the 330 (<1%) specimens tested for influenza were positive; 1 positive for influenza A (H3N2) and 1 positive for influenza B (Figure 5). Since September 28, 2014, 3 of 661 (<1%) specimens tested for influenza have been positive; 1 typed as influenza A (H3N2) and 2 typed as influenza B. Since the 2009-2010 influenza season, participating laboratories have tested over 70,000 specimens with an average of over 14,000 specimens tested per season. The predominant circulating strain based on laboratory surveillance has changed every season making it difficult to predict which strain will predominate during the current season. For example during the 2013-2014 season, influenza A (H1N1) was the predominant strain accounting for 71% of all positive specimens. However, during the 2012-2013 season A (H3N2) accounted for 78% of all positive specimens making it the predominant strain. In 2011-2012, influenza B was the predominant strain accounting for 50% of all positive specimens.

**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 2013, the Metropolitan Chicago Healthcare Council (MCHC) and CDPH released “Stop the Spread: A Health Care Guide to Influenza Preparedness”. 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.

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