What is the risk?
Currently, the risk of influenza infection is low. The week of December 8th through 14th is Vaccinate Illinois Week. Please join CDPH and partners throughout the state as we remind healthcare providers and the public that it is not too late to give or get a flu shot. 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](http://www.cityofchicago.org/city/en/depts/cdph/provdrs/flu/svcs/_cdph_flu_shot_sitesacrosschicago.html) 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](http://www.chicagoflushots.org). For a list of other Vaccinate Illinois Week activities, go to [www.cityofchicago.org/flu](http://www.cityofchicago.org/flu).

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 December 1-7, 2013 (week 49), 1 influenza-associated ICU hospitalization was reported, which was positive for influenza A (unknown subtype [subtyping not attempted or not all subtypes tested]). This week last season, there were 9 reported ICU hospitalizations. Since September 29, 2013, 6 influenza-associated ICU hospitalizations have been reported (Figure 1). Among the total ICU hospitalizations reported all were positive for influenza A (2 H1N1 and 4 unknown subtype). Four (66%) were female, two (33%) were NH-White, and four (66%) were 50 years of age or older (median age of 61 years with a range of 48-83 years). Five (83%) had lung disease (including asthma) and two (33%) 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 1-7, 2013, with 14 hospitals reporting, 3.0% of emergency department visits were due to ILI. This is the fourth 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 ESSENCE. Figure 3 shows the percent of the total emergency department visits due to ILI for pediatric patients (3.0%) and adult patients (1.2%) for the week of December 1-7, 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 1-7, 2013, with 46 facilities reporting, 3.5% 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 1-7, 2013, with 5 laboratories reporting, 17 of the 428 (4.0%) specimens tested for influenza were positive. This week last season, 21.2% of specimens tested were positive for influenza. Among this week’s positive specimens, all were typed as influenza A (13 H1N1 and 4 unknown subtype) (Figure 5). Since September 29, 2013, 47 of 3,387 (1.4%) specimens tested for influenza have been positive; 45 typed as influenza A (29 H1N1, 1 H3N2, and 15 unknown subtype) and 2 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. The Metropolitan Chicago Healthcare Council (MCHC) and CDPH recently 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.

National Snapshot (December 1-7, 2013)
Viral Surveillance: Of 6,219 specimens tested and reported by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories during week 49, 830 (13.3%) were positive for influenza.

Pneumonia and Influenza Mortality: The proportion of deaths attributed to pneumonia and influenza (P&I) was below the epidemic threshold.

Influenza-Associated Pediatric Deaths: No influenza-associated pediatric deaths were reported.

Influenza-Associated Hospitalizations: A cumulative rate for the season of 2.0 laboratory-confirmed influenza-associated hospitalizations per 100,000 population was reported.

Outpatient Influenza Surveillance: The proportion of outpatient visits for influenza-like illness (ILI) was 2.1%, above the national baseline of 2.0%. Three regions reported ILI above region-specific baseline levels. Four states experienced high ILI activity, five states and New York City experienced low ILI activity, 41 states experienced minimal ILI activity and the District of Columbia had insufficient data.

Geographic Spread of Influenza: The geographic spread of influenza in 14 states was reported as regional; 18 states reported local influenza activity; the District of Columbia, Guam, Puerto Rico, and 16 states reported sporadic influenza activity; the U.S. Virgin Islands and two states reported no influenza activity.

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