Are severe cases of influenza occurring?
The Illinois Department of Public Health (IDPH) has issued influenza testing and reporting guidelines.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 INEDSS.3

For the week of March 22–28, 2015, 10 influenza-associated ICU hospitalizations were reported; 1 was positive for influenza A (unknown subtype) and nine were positive for influenza B.

Since September 28, 2014, 254 influenza-associated ICU hospitalizations have been reported (Figure 1). Among the total ICU hospitalizations reported, 214 were positive for influenza A (110 H3N2, 1 H1N1, and 103 unknown subtype [subtyping not attempted or not all subtypes tested]) and 40 were positive for influenza B. One hundred fifteen (45%) were non-Hispanic Black, 133 (52%) were female, and 159 (63%) were 50 years of age or older (median age of 61 years with a range of 1 month -101 years). Eighty (32%) had reported lung disease (including asthma) and 62 (24%) required ventilator support. Twenty-one deaths among ICU hospitalizations have been reported.

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 March 22–28, 2015 (week 12), with 11 hospitals reporting, 6.2% 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

1http://www.cityofchicago.org/city/en/depts/cdph/supp_info/clinical_health/immunizations_walk-inclinics.html; 2http://www.idph.state.il.us/flu/OHPLabs-Influenza_annual_Testing_and_Reporting_Memo_01_10-2-2014.pdf; 3https://dph.partner.illinois.gov/ All data are preliminary and may change as more reports are received.
does. Currently, 10 Chicago hospitals submit data to ESSENCE. For the week of March 22-28, 2015, 2.6% of emergency department visits were due to ILI (Figure 3).

Several outpatient clinics and two large outpatient clinic networks located in Chicago participate in CDC’s Influenza-like Illness Surveillance Network (ILINet) by reporting on the number of patients with ILI seen weekly. From March 22-28, 2015 with 39 facilities reporting, 4.7% 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 March 22-28, 2015, with 6 laboratories reporting, 104 of the 672 (15%) specimens tested for influenza were positive. Among this week’s positive specimens, 1 was typed as influenza A (H3N2) and 103 were typed as influenza B (Figure 4).

Since September 28, 2014, 2,269 of 15,234 (15%) specimens tested for influenza have been positive; 1,807 typed as influenza A (6 H1N1pdm09, 1,486 H3N2 and 317 unknown subtype) and 460 were 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 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, its impact on public health and how hospitals can prepare for, mitigate the impact of and respond to influenza infections and outbreaks.