What is the risk?
Currently, the risk of influenza infection is high.

Are severe cases of influenza occurring?
For the week of January 7-13, 2018, 38 influenza-associated ICU hospitalizations were reported (Figure 1).

Since October 1, 2017, 203 influenza-associated ICU hospitalizations have been reported; 191 were positive for influenza A (60 H3N2, 9 H1N1, and 122 unknown subtype [subtyping not attempted or not all subtypes tested]) and 12 were positive for influenza B. The median age of reported cases is 64 years (range of 5 days-102 years); selected attributes are summarized in Table 1.

Which influenza strains are circulating?
Data on influenza virus test results are reported by Chicago laboratories performing influenza RT-PCR. For the week of January 7-13, 2018, with 6 laboratories reporting, 404 of the 1,698 (23.8%) specimens tested for influenza were positive [109 A (H3N2), 15 A (H1N1)pdm09, 255 A unknown subtype and 25 influenza B] (Figure 2). Since October 1, 2017, 1,114 of 10,282 (10.8%) specimens tested for influenza have been positive; 1,054 typed as influenza A (375 H3N2, 54 (H1N1)pdm09, 625 unknown subtype [subtyping not performed or not all subtypes tested]) and 60 typed as influenza B.

How much influenza-like illness is occurring?
CDPH receives data from several hospitals in Chicago that provide emergent care, which report on a weekly basis the total number of emergency department visits, and of those visits, the number with influenza-like illness (fever of 100°F or greater and cough and/or sore throat). For the week of January 7-13, 2018, with seven hospitals reporting, 5.6% of emergency department visits were due to ILI (Figure 3).
In addition to emergency departments, several outpatient clinics throughout Chicago participate in CDC’s Influenza-like Illness Surveillance Network (ILINet) by also reporting on a weekly basis the total number of outpatient clinic visits, and of those visits, the number with influenza-like illness (ILI). For the week of January 7-13, 2018, with 22 facilities reporting, 3.6% of outpatient clinic visits were due to influenza-like illness (Figure 4).

**ESSENCE** is an electronic syndromic surveillance system used to monitor influenza-like illness by utilizing the chief complaints of patients visiting emergency departments. Currently, all Chicago hospitals submit data to ESSENCE on a daily basis, covering every emergency department visit in the city. For the week of January 7-13, 2018, 1,783 of the 28,722 (6.2%) total emergency department visits were due to influenza-like illness (ILI); children less than five years of age had the highest percentage of visits due to ILI at 16.0%

Figure 5 represents the percentage of emergency department visits due to influenza-like illness aggregated by patient zip code. For the week of January 7-13, 2018, 52 of 59 (88%) zip codes had ILI activity levels in the moderate to high categories and 7 (12%) had ILI activity levels in the minimal to low categories; the median percent ILI was 5.9% with a range from <1% to 9.5% (Figure 6).

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 Illinois³ and Suburban Cook County⁴ 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 Chicago⁵.

**Reporting Information**
The Illinois Department of Public Health (IDPH) has issued influenza testing and reporting recommendations⁶ healthcare facilities can report cases to the Chicago Department of Public Health via the Illinois National Electronic Disease Surveillance System (INEDSS)⁷.