



Chicago Flu Update



Rahm Emanuel, Mayor

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News & Updates

Vaccination is the best way to protect against influenza infection and all Chicagoans 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 list of City of Chicago [Walk-In Immunization Clinics](#)¹ 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.

What is the risk?

Currently, the risk of influenza infection is increasing.

Are severe cases of influenza occurring?

For the week of December 16-22, 2018, five influenza-associated ICU hospitalizations were reported.

Since September 30, 2018, 16 influenza-associated ICU hospitalizations have been reported; 12 were positive for influenza A (7 H1N1pdm09 and 5 unknown subtype [subtyping not attempted or not all subtypes tested]) and four were positive for influenza B (Figure 1).

Since 2010-2011, there have been four influenza A (H3N2) predominant seasons and two influenza A (H1N1pdm09) predominant seasons. The cumulative average number of influenza-associated ICU hospitalizations for H3N2 predominant seasons has been higher than H1N1pdm09 seasons, with 26 more cases reported weekly during H3N2 seasons than in H1N1pdm09 seasons (Figure 2).

Figure 1. Number of influenza-associated ICU hospitalizations reported for Chicago residents, for the current season (2018-2019) by influenza type and subtype, October-May.

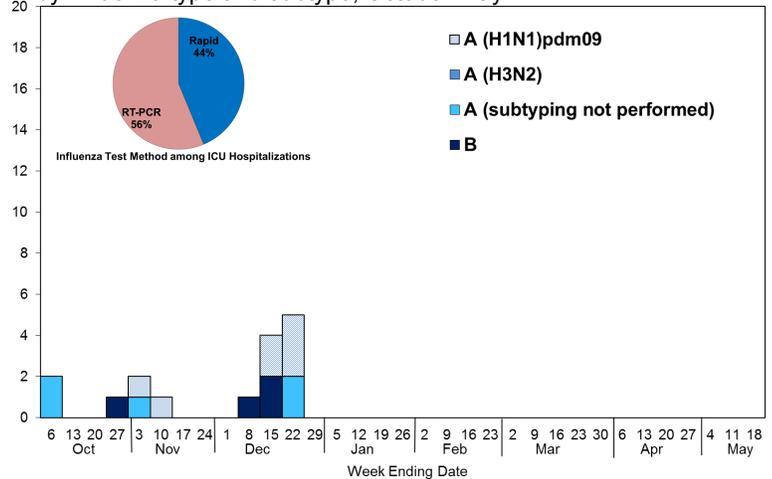


Figure 3. Percent of specimens testing positive (by RT-PCR*) for influenza by subtype as reported by local laboratories serving Chicago hospitals, for the current season (2018-2019) October-May.

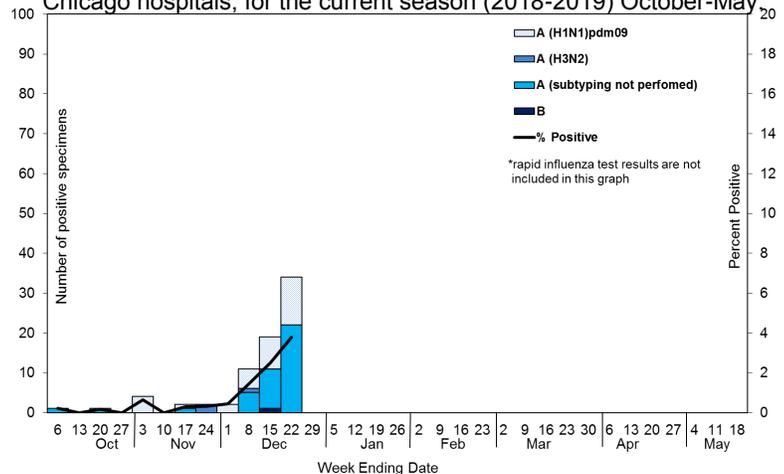
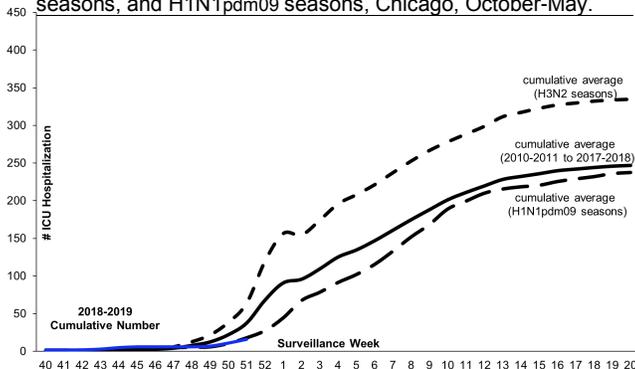


Figure 2. Cumulative average number of influenza-associated ICU hospitalizations for previous eight seasons, for H3N2 seasons, and H1N1pdm09 seasons, Chicago, October-May.



Which influenza strains are circulating?

Data on influenza virus test results are reported by Chicago laboratories performing influenza RT-PCR. For the week of December 16-22, 2018, with 5 laboratories reporting, 34 of the 901 (3.8%) specimens tested for influenza were positive; 34 typed as influenza A (12 H1N1pdm09 and 22 unknown subtype) (Figure 3).

Since September 30, 2018, 76 of 7,849 (1.0%) specimens tested for influenza have been positive; 75 typed as influenza A (32 H1N1pdm09, 3 H3N2, and 40 unknown subtype [subtyping not performed or not all subtypes tested]) and one typed as influenza B.



¹ https://www.chicago.gov/city/en/depts/cdp/supp_info/health-protection/immunizations_walk-inclinics.html; ² <http://chicagoflushots.org/>

How much influenza-like illness is occurring?

Several outpatient clinics throughout Chicago participate in CDC's Influenza-like Illness Surveillance Network (ILINet) by 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 December 16-22, 2018, 140 of the 5,517 (2.5%) reported outpatient clinic visits were due to influenza-like illness, which is similar to both Illinois (2.6%) and Region 5 (2.5%) but slightly lower than the U.S. (3.3%) (Figure 4).

In addition to ILINet, ESSENCE is an electronic syndromic surveillance system that utilizes the chief complaints of patients visiting emergency departments to monitor for influenza-like illness. Currently, ESSENCE captures every emergency department visit in the city on a daily basis. For the week of December 16-22, 2018, 665 of the 25,042 (2.7%) total emergency department visits were due to influenza-like illness (Figure 5).

Figure 6 represents the percentage of emergency department visits due to influenza-like illness aggregated by patient zip code. For the week of December 16-22, 2018, 33 of 59 (56%) zip codes had ILI activity levels in the moderate to high categories; this is lower than last season where 81% of zip codes were at moderate to high levels for the same time period (Figure 7).

Figure 4. Percent of medically-attended outpatient visits attributed to influenza-like illness as reported by ILINet facilities, Chicago, by week for the current season (2018-2019) and for Illinois, Region 5, and U.S., October-May.

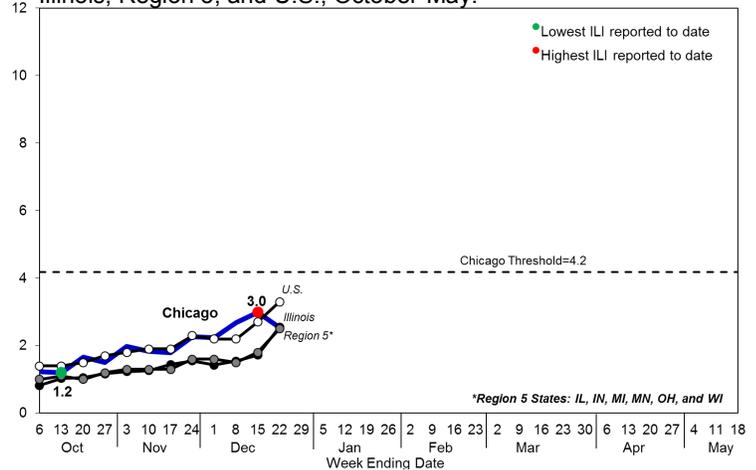


Figure 5. Percent of emergency department visits attributed to influenza-like illness for Chicago zip codes based on chief complaint data submitted to ESSENCE, Chicago, by week, for the current season (2018-2019) and previous two seasons, October-May.

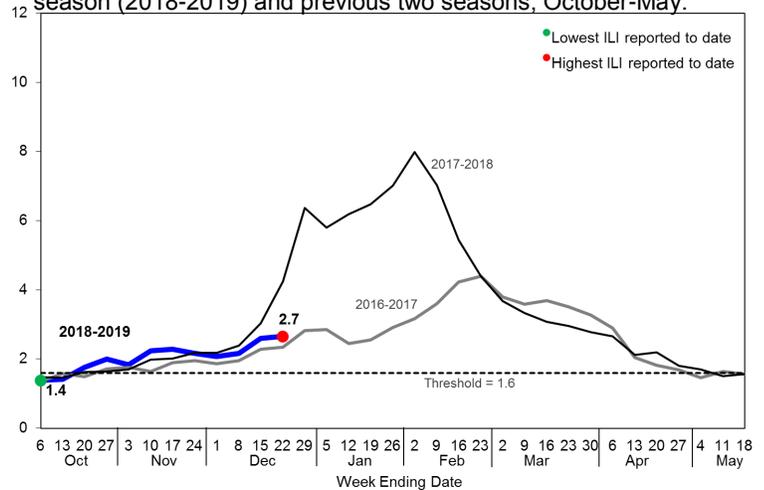
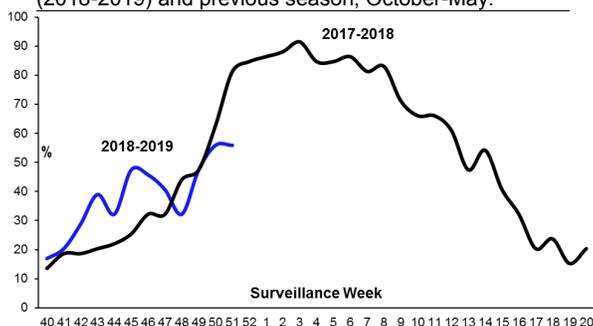


Figure 7. Percent of zip codes in the moderate to high ILI activity levels by week, Chicago, for current season (2018-2019) and previous season, October-May.



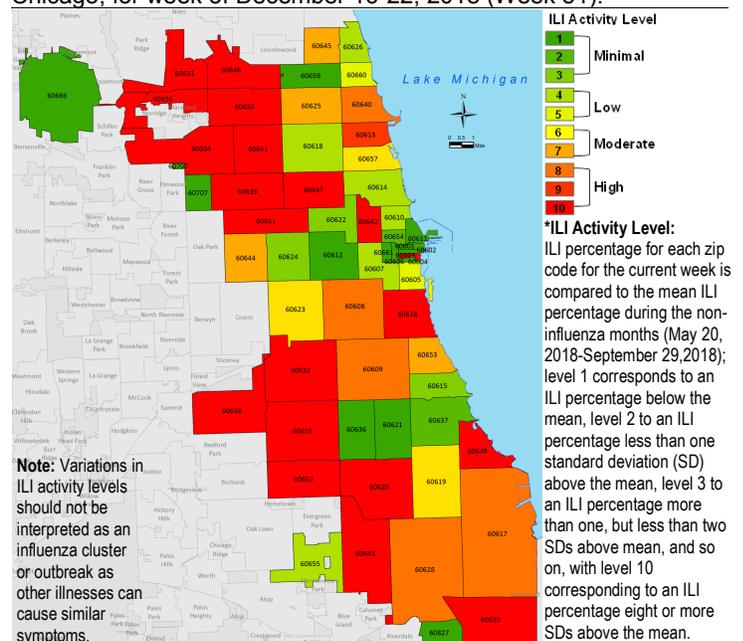
Where can I get more information?

The Centers for Disease Control and Prevention's FluView³ 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 Illinois⁴ and Suburban Cook County⁵ 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 Chicago⁶.

Reporting Information

The Illinois Department of Public Health (IDPH) has issued influenza testing and reporting recommendations⁷. In addition, The Chicago Department of Public Health recently issued guidance on reporting influenza-associated ICU hospitalizations⁸. Healthcare facilities can report cases to the Chicago Department of Public Health via the Illinois National Electronic Disease Surveillance System (INEDSS)⁹.

Figure 6. Influenza-like Illness (ILI) activity level by patient zip code determined by chief complaint data submitted to ESSENCE, Chicago, for week of December 16-22, 2018 (Week 51).



³ <http://www.cdc.gov/flu/weekly/index.htm>; ⁴ <http://dph.illinois.gov/topics-services/diseases-and-conditions/influenza/influenza-surveillance#publications>;

⁵ <http://cookcountypublichealth.org/data-reports/communicable-diseases>; ⁶ https://www.cityofchicago.org/city/en/depts/cdp/supp_info/health-protection/current_flu_situationinchicago2011.html; ⁷ dph.illinois.gov/sites/default/files/publications/ohp-annual-flu-testing-guidance-09182018.pdf; ⁸ <https://www.chicagohan.org/documents/14171/39923/Reporting+Influenza-Associated+ICU+Hospitalizations/bc2f49b2-cf74-487c-9441-0b0a930e4b41>; ⁹ <https://dph.partner.illinois.gov/>