

Chicago Flu Update



Lori E. Lightfoot, Mayor

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News & Updates

In Chicago, reported laboratory confirmed influenza has decreased. However, influenza viruses are detected throughout the year at low levels and can cause



disease. Although, the percentage of emergency department visits due to influenza-like illness (ILI) remains high compared to previous seasons, it has slowly been decreasing for the past several weeks. Vaccination is the best way to protect against influenza infection and all Chicagoans six months and older are encouraged to get vaccinated every year. Chicagoans should ask their healthcare provider or pharmacist about vaccine availability. CDPH Walk-in Immunization Clinics¹ are closed until further notice.

What is the risk?

Currently, the risk of influenza infection is low.

Are severe cases of influenza occurring?

For the week of May 3-9, 2020, no influenza-associated ICU hospitalizations were reported (**Figure 1**).

Since September 29, 2019, 479* influenza-associated ICU hospitalizations have been reported; 370 (77%) were positive for influenza A (8 H3N2, 123 H1N1pdm09, 239 unknown subtype [subtyping not performed or not all subtypes tested]) and 109 (23%) were positive for influenza B. The median age of influenza A cases is 55 years and the median age of influenza B cases is 37 years (overall range of 1 month-96 years); four pediatric deaths were reported and 15 outbreaks in long-term care facilities; selected attributes are summarized in

 Table 1. *total case counts may change as additional information is received.

Table 1. Selected attributes of influenza-associated intensive care unit hospitalizations reported for Chicago residents during the 2019-2020 season. October-May.

Age Group*	#	% [†]	Sex	#	%
0-4	80	17	Male	249	52
5-17	30	6	Female	229	48
18-24	17	4	Med. Cond./Complication [‡]		
25-49	81	17	Lung Disease	159	33
50-64	139	29	Cardiac Disease	142	30
≥65	131	27	Diabetes	112	24
Race/Ethnicity			Ventilator Support	106	22
NH-White	109	23	Reported Deaths§	21	4
NH-Black	259	54	Treatment/Vaccination [‡]		
Hispanic	88	18	Reported Antiviral Tx	382	80
Asian/Other	22	5	Reported Flu Shot	143	30

* One patient missing age and race/ethnicity at time of report; † Percentages may not add up to 100 due to rounding; ‡ As reported in INEDSS (Illinois National Electronic Disease Surveillance System); § Date of death occurring within one week of positive influenza test among reported influenza-associated ICU hospitalizations.

Figure 3. Cumulative percent of specimens testing positive (by RT-PCR) for influenza as reported by local laboratories serving Chicago hospitals, for the current season (2019-2020), and previous two seasons, October-May.

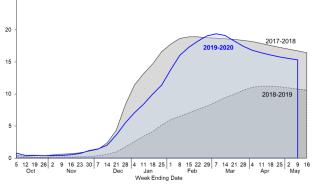
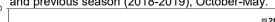


Figure 1. Number of influenza-associated ICU hospitalizations reported for Chicago residents, for the current season (2019-2020) and previous season (2018-2019), October-May.



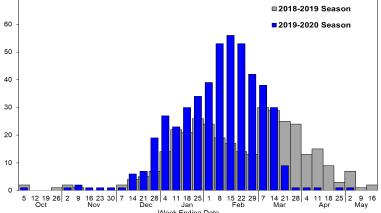
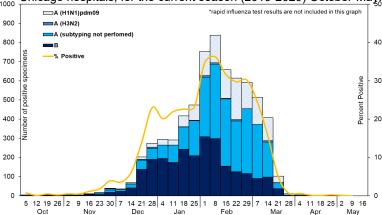


Figure 2. Percent of specimens testing positive (by RT-PCR) for influenza by subtype as reported by local laboratories serving Chicago hospitals, for the current season (2019-2020) October-May



Which influenza strains are circulating?

Data on influenza virus test results are reported by Chicago laboratories performing influenza RT-PCR. For the week of May 3-9, 2020, 0 of the 597 reported specimens that were tested for influenza were positive (**Figure 2**).

Since September 29, 2019, 6,654 of the 43,429 (15%) reported specimens that were tested for influenza have been positive; 4,164 (63%) typed as influenza A (68 H3N2, 1,329 H1N1pdm09, and 2,767 unknown subtype [subtyping not performed or not all subtypes tested]) and 2,490 (37%) typed as influenza B. The cumulative percentage of specimens testing positive for influenza so far this season is higher than last season (11%) but slightly lower than the 2017-2018 season (17%) for the same time period (**Figure 3**).§

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 May 3-9, 2020, 8 of the 4,575 (<1%) reported outpatient clinic visits were due to influenza-like illness (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 nearly every emergency department visit in the city on a daily basis. For the week of May 3-9, 2020, 456 of the 15,532 (2.9%) 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 Chicago patient zip codes. For the week of May 3-9, 2020, 25 of 59 (42%) zip codes had moderate to high ILI activity levels; this is the seventh consecutive week where the percentage of zip codes at moderate to high levels has decreased, however remains higher than last season where 9 of 59 (15%) zip codes were at moderate to high levels for the same time period.

Where can I get more information?

The Centers for Disease Control and Prevention's FluView² 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

Illinois Department of Public Health has issued Influenza Testing and Reporting Guidance⁶. The Chicago Department of Public Health has previously issued guidance on reporting influenza-associated ICU hospitalizations⁷. Healthcare facilities can report cases to the Chicago Department of Public Health via the Illinois National Electronic Disease Surveillance System (INEDSS)⁸. For more information contact: SyndromicSurveillance@cityofchicago.org



All data are preliminary and may change as more reports are received.

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 (2019-2020) and previous two seasons,

October-May. Lowest ILI reported to date Highest ILI reported to date 14 21 28 4 11 18 25 1 8 Dec Jan Week Ending Date 15 22 29 7 Feb 14 21 28 4 Mar

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

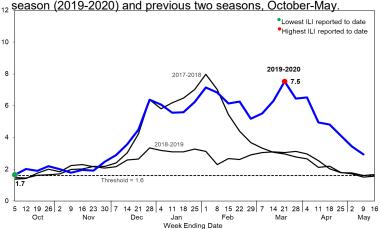
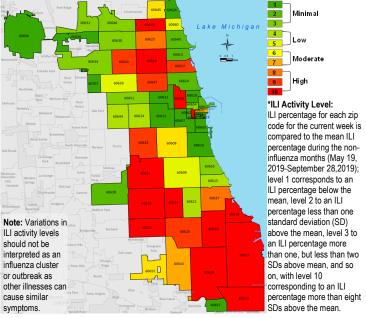


Figure 6. Influenza-like Illness (ILI) activity level by Chicago patient zip codes determined by chief complaint data submitted to ESSENCE, Chicago, for week of May 3-9, 2020 (Week 19)

ILI Activity Level



² http://www.cdc.gov/flu/weekly/index.htm;3 http://dph.illinois.gov/topics-services/diseases-and-conditions/influenza/influenza-surveillance;4 https://ccdphcd.shinyapps.io/influenza/;

⁵ https://www.chicago.gov/city/en/depts/cdph/supp_info/health-protection/current_flu_situationinchicago.html; 6 www.dph.illinois.gov/sites/default/files/publications/20190916idphohpannual-flu-testing.pdf; 7 https://www.chicagohan.org/documents/14171/39923/Reporting+Influenza-Associated+ICU+Hospitalizations/bc2f49b2-cf74-487c-9441-0b0a930e4b41-Page 2 of 2

⁸ httpsdph.partner.illinois.gov/