

Rahm Emanuel, Mayor January 4, 2019 Julie Morita, MD, Commissioner

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 Clinics¹ 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?

reported (Figure 1).

Currently, the risk of influenza infection continues to increase.

Are severe cases of influenza occurring? For the week of December 23-29, 2018, seven influenza-associated ICU hospitalizations were

Since September 30, 2018, 23 influenza-associated ICU hospitalizations have been reported: 19 were positive for influenza A (11 H1N1pdm09 and 8 unknown subtype [subtyping not attempted or not all subtypes tested]) and four were positive for influenza B. The median age of reported cases is 63 years (range 6 months-87 years); four cases were admitted from long-term care facilities; selected attributes are summarized in Table 1.

Table 1. Selected attributes of influenza-associated intensive care unit hospitalizations reported for Chicago residents during the 2018-2019 season, October-May.

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Age Group	#	% [*]	Sex	#	%	
0-4	3	13	Male	12	52	2
5-17	2	9	Female	11	48	1
18-24	0	0	Med. Cond./Complication [†]			
25-49	3	13	Lung Disease	10	43	1
50-64	5	22	Cardiac Disease	6	26	1.
≥65	10	43	Diabetes	6	26	1:
Race/Ethnicity			Ventilator Support	7	30	1.
NH-White	5	22	Reported Deaths [‡]	2	7	1
NH-Black	15	65	Treatment/Vaccination [†]			
Hispanic	3	13	Reported Antiviral Tx	19	83	
Asian/Other	0	0	Reported Flu Shot	4	17	

*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.

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 23-29, 2018, with 6 laboratories reporting, 78 of the 922 (8.5%) specimens tested for influenza were positive; 77 typed as influenza A (29 H1N1pdm09, 3 H3N2, and 45 unknown subtype) and one typed as influenza B (Figure 3).

Since September 30, 2018, 154 of 8,771 (1.8%) specimens tested for influenza have been positive; 152 typed as influenza A (61 H1N1pdm09, 6 H3N2, and 85 unknown subtype [subtyping not performed or not all subtypes tested]) and two typed as influenza B.

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

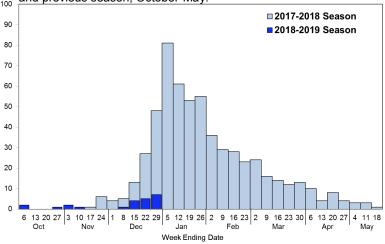
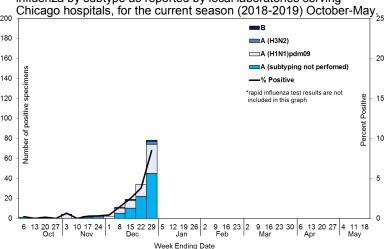


Figure 3. Percent of specimens testing positive (by RT-PCR*) for influenza by subtype as reported by local laboratories serving





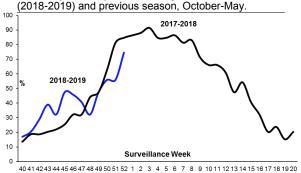
How much influenza-like illness is occurring?

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 23-29, 2018, 113 of the 3,496 (3.2%) reported outpatient clinic visits were due to influenza-like illness, which is similar to both Illinois (3.3%) and Region 5 (3.7%) but slightly lower than the U.S. (4.1%) **(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 23-29, 2018, 808 of the 24,093 (3.4%) 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 23-29, 2018, 44 of 59 (75%) zip codes had ILI activity levels in the moderate to high categories; this is lower than last season where 85% of zip codes were at moderate to high levels for the same time period **(Figure 7).**

Figure 7. Percent of **zip codes** in the moderate to high ILI activity levels by week, Chicago, for current season



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 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 Illipsis Paging 5, and ILS. October May

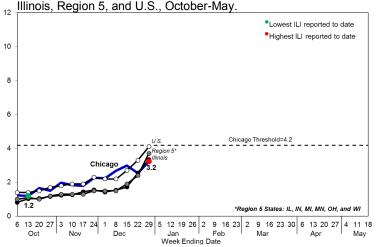


Figure 5. Percent of **emergency department** visits attributed to influenza-like illness for Chicago zip codes based on chief complaint data submitted to **ESSENCE**, Chicago, by week, for the current

season (2018-2019) and previous two seasons, October-May.

**Lowest ILI reported to date

*Highest ILI reported to date

Threshold = 1.6

2018-2019

2018-2019

2018-2019

Threshold = 1.6**

Oct

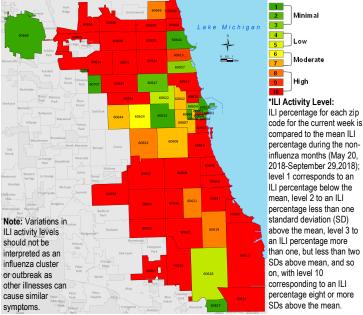
Nov

Threshold = 1.6**

Oct

Week Ending Date

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 23-29, 2018 (Week 52).



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

ILI Activity Level

⁵ http://cookcountypublichealth.org/data-reports/communicable-diseases;6 https://www.cityofchicago.org/city/en/depts/cdph/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/