

002



Rahm Emanuel, Mayor

March 8, 2019

Julie Morita, MD, Commissioner

News & Updates

Currently, the Illinois Department of Public Health continues to recommend temporary hospital visitor restrictions¹ during times of increased influenza-like illness in the community. 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 Clinics² 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 high.

Are severe cases of influenza occurring? For the week of February 24-March 2, 2019, eight influenza-associated ICU hospitalizations were

reported (Figure 1).

Since September 30, 2018, 180 influenza-associated ICU hospitalizations have been reported; 172 were positive for influenza A (77 H1N1pdm09, 3 H3N2, and 92 unknown subtype [subtyping not attempted or not all subtypes tested]) and eight were positive for influenza B. The median age of reported cases is 57 years (range 1 month-92 years); one pediatric death was reported and nine 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

Age Group	#	% [*]	Sex	#	%
0-4	23	13	Male	96	53
5-17	11	6	Female	84	47
18-24	4	2	Med. Cond./Complication [†]		
25-49	31	17	Lung Disease	69	38
50-64	49	27	Cardiac Disease	58	32
≥65	62	34	Diabetes	43	24
Race/Ethnicity			Ventilator Support	49	27
NH-White	42	23	Reported Deaths [‡]	8	4
NH-Black	86	48	Treatment/Vaccination [†]		
Hispanic	42	23	Reported Antiviral Tx	156	87
Asian/Other	10	6	Reported Flu Shot	47	26

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 February 24-March 2, 2019, 162 of the 1,011 (16.0%) specimens tested for influenza were positive; 154 typed as influenza A (32 H1N1pdm09, 12 H3N2, and 110 unknown subtype) and eight typed as influenza B (Figure 2).

Since September 30, 2018, 1,512 of 18,752 (8.1%) specimens tested for influenza have been positive; 1,481 typed as influenza A (432 H1N1pdm09, 46 H3N2, and 1.003 unknown subtype [subtyping not performed or not all subtypes tested]) and 31 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.

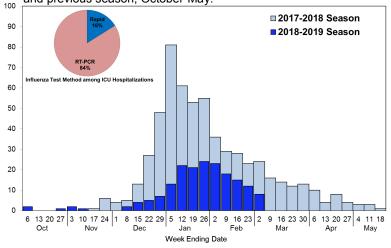
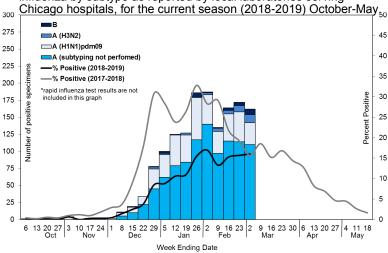


Figure 2. Percent of specimens testing positive (by RT-PCR*) for influenza by subtype as reported by local laboratories serving





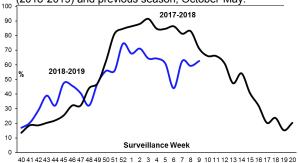
How much influenza-like illness is occurring?

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 February 24-March 2, 2019, 102 of the 5,513 (1.8%) reported outpatient clinic visits were due to influenza-like illness, which is lower than Illinois (3.2%), Region 5 (3.4%) and the U.S. (4.7%) (**Figure 3**).

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 February 24-March 2, 2019, 700 of the 24,107 (2.9%) total emergency department visits were due to influenza-like illness (**Figure 4**).

Figure 5 represents the percentage of emergency department visits due to influenza-like illness aggregated by patient zip code. For the week of February 24-March 2, 2019, 37 of 59 (63%) zip codes had ILI activity levels in the moderate to high categories; this is lower than last season where 71% of zip codes were at moderate to high levels for the same time period (Figure 6).

Figure 6. 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 3. 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 Bosion 5, and ILS. October May

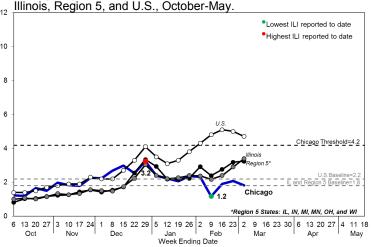


Figure 4. Percent of **emergency department** visits attributed to influenza-like illness for Chicago zip codes based on chief complaint data submitted to **ESSENCE**, Chicago, by week, for the current

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

**Lowest ILI reported to date

**Highest ILI reported to date

2018-2019

2018-2019

2018-2019

1.4

Threshold = 1.6

Oct

Oct

Oct

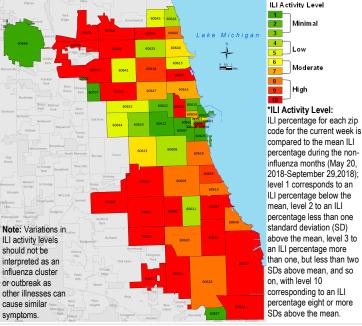
Nov

Dec

Jan

Week Ending Date

Figure 5. Influenza-like Illness (ILI) activity level by patient zip code determined by chief complaint data submitted to **ESSENCE**, Chicago, for week of February 24-March 2, 2019 (Week 9).



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