

Chicago Flu Update



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News & Updates

Vaccination is the best way to protect against influenza infection and all Chicagoans aged 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 Fast-Track 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.

The Illinois Department of Public Health (IDPH) has issued influenza testing and reporting recommendations²; healthcare facilities can report cases to the Chicago Department of Public Health via INEDSS³.

What is the risk?

Currently, the risk of influenza infection continues to increase.

Are severe cases of influenza occurring?

For the week of January 22-28, 2017, 13 influenzaassociated ICU hospitalizations were reported (**Figure 1**).

Since October 2, 2016, 40 influenza-associated ICU hospitalizations have been reported; 30 were positive for influenza A (14 H3N2 and 16 unknown subtype [subtyping not attempted or not all subtypes tested]) and 10 were positive for influenza B. The median age of reported cases is 65 years (range of 2 -96 years); selected attributes are summarized in **Table 1**.

Table 1. Selected attributes of influenza-associated intensive care unit hospitalizations reported for Chicago residents for current season (2016-2017), October-May.

Age Group	#	%	Race/Ethnicity	#	%	
0-4	1	2	NH-White	13	33	
5-17	2	5	NH-Black	15	38	
18-24	1	2	Hispanic	9	22	
25-49	6	15	Asian	3	7	
50-64	9	23	Other/Unknown	0	0	
≥65	21	53	Medical Condition/Complication			
Total	40	100	Lung Disease	13	32	
Sex			Cardiac Disease	16	40	
Male	23	59	Ventilator Support	9	22	
Female	16	41	Reported Deaths	2	5	

How much influenza-like illness is occurring?

CDPH receives data from influenza surveillance sites across Chicago, which report the total number of patient visits seen weekly, and of those visits, the number with influenza-like illness (ILI) (i.e., fever of 100°F or greater, with cough or sore throat).

Several hospitals in Chicago that provide emergent care report on a weekly basis the total number of emergency department visits, and of those visits, the number with ILI. For the week of January 22-28,

Figure 1. Number of influenza-associated ICU hospitalizations reported for Chicago residents, for the current season (2016-2017) and previous season (2015-2016), October-May.

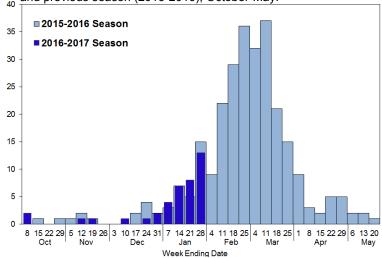
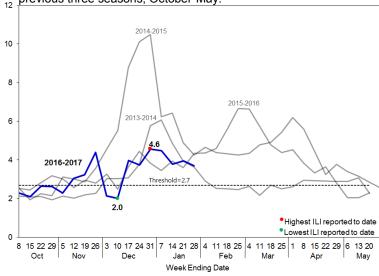


Figure 2. Percent of <u>emergency department</u> visits attributed to influenza-like illness based on manual reports by individual hospitals, Chicago, by week, for the current season (2016-2017) and previous three seasons, October-May.



2017, with 9 hospitals reporting, 3.7% of emergency department visits were due to ILI (Figure 2).

ESSENCE is an electronic syndromic surveillance system that utilizes emergency department chief complaint data submitted daily by Chicago hospitals. ILI activity is determined solely based on the patient's chief complaint and

does not take into account the entire medical record, as the ILI activity reported in Figure 2 does.

Currently, all Chicago hospitals submit data to ES-SENCE, covering every emergency department visit in the city. For the week of January 22-28, 2017, 2.6% of all emergency department visits were due to ILI; Southside hospitals had slightly higher ILI at 3.2%, Northside hospitals at 2.7% and Westside hospitals had the lowest at 2.0% (**Figure 3**).

Several outpatient clinics throughout Chicago participate in CDC's Influenza-like Illness Surveillance Network (**ILINet**) by reporting on the number of patients with ILI seen weekly. For the week of January 22-28, 2017, with 24 facilities reporting, 5.5% of outpatient visits were due to influenza-like illness (**Figure 4**).

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 22-28, 2017, with 6 laboratories reporting, 88 of the 779 (11.3%) specimens tested for influenza were positive (59 A (H3N2), 1 A (H1N1pdm09), 8 A [unknown subtype], and 20 influenza B).

Since October 2, 2016, 385 of 9,745 (4.0%) specimens tested for influenza have been positive; 296 typed as influenza A (252 H3N2, 5 H1N1pdm09, and 39 unknown subtype [subtyping not attempted or not all subtypes tested]) and 89 typed as influenza B (**Figure 5**). The cumulative percent of specimens testing positive for influenza is lower than previous seasons during the same time period where influenza A (H3N2) was the predominant strain (**Table 2**).

Table 2. Cumulative percent of specimens testing positive for influenza by RT-PCR by type for the current season (2016-2017) and the previous three seasons, Chicago, Weeks 40-04.

Influenza	%	% A	% A	% A Not Sub-	%
Season		, , , ,	70 A H1N1pdm09	typed	76 В
2013-2014	9.4	1.7	68.1	27.5	2.6
2014-2015	16.9	77.8	0	17.5	4.5
2015-2016	1.7	5.2	66.9	22.1	5.8
2016-2017	4.0	65.5	1.3	10.1	23.1

Where can I get more information?

The Centers for Disease Control and Prevention's FluView⁴ 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 Illinois⁵ and Suburban Cook County⁶ are also available online. Current and archived issues of the *Chicago Flu*

Figure 3. Percent of <u>emergency department</u> visits attributed to influenza-like illness by hospital region based on chief complaint data submitted to ESSENCE, Chicago, by week, for the current season (2016-2017) and previous three seasons, October-May.

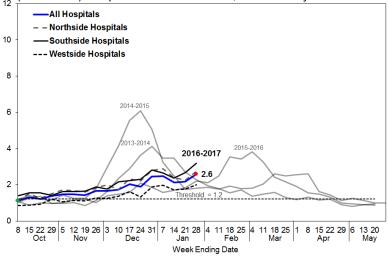


Figure 4. Percent of medically-attended <u>outpatient</u> visits attributed to influenza-like illness as reported by ILINet facilities, Chicago, by week, for the current season (2016-2017) and previous three seasons, October-May.

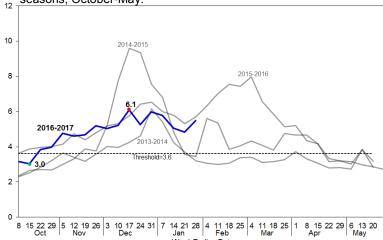
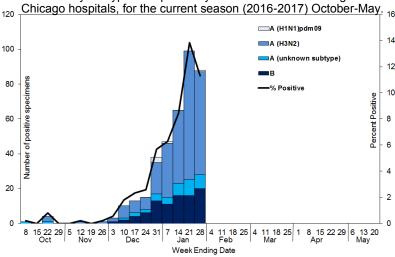


Figure 5. Percent of specimens testing positive (by RT-PCR) for influenza by subtype as reported by local laboratories serving



Update can be found on the CDPH website section Current Flu Situation in Chicago⁷.