

# **News & Updates**

There are over three months remaining in the influenza season and **it's not too late to get a flu shot**; only 52% of influenza-associated ICU hospitalizations reported receiving a flu shot this season. 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 Clinics<sup>1</sup> 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 recommendations<sup>2</sup>; healthcare facilities can report cases to the Chicago Department of Public Health via INEDSS<sup>3</sup>.

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## What is the risk?

Currently, the risk of influenza infection continues to increase.

### Are severe cases of influenza occurring?

For the week of January 29-February 4, 2017, 7 influenza-associated ICU hospitalizations were reported (**Figure 1**).

Since October 2, 2016, 54 influenza-associated ICU hospitalizations have been reported; 42 were positive for influenza A (22 H3N2 and 20 unknown subtype [subtyping not attempted or not all subtypes tested]) and 12 were positive for influenza B. The median age of reported cases is 68.5 years (range of 9 months - 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

	residents for current season (2010-2017), October-May.					
Age Group	#	%	Sex	#	%	
0-4	3	5	Male	22	41	
5-17	3	5	Female	32	59	
18-24	1	2	Med. Cond./Complication*		*	
25-49	7	13	Lung Disease	19	35	
50-64	10	19	Cardiac Disease	22	41	
≥65	30	56	Ventilator Support	12	22	
Race/Ethnicity			Reported Deaths	4	7	
NH-White	18	33	Treatment/Vaccination	on*		
NH-Black	18	33	Reported Antiviral Tx	35	65	
Hispanic	14	26	Reported Flu Shot	28	52	
Asian	4	8				

\* Among cases with reported information in INEDSS

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

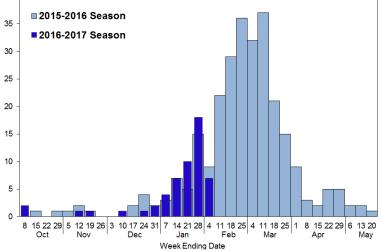
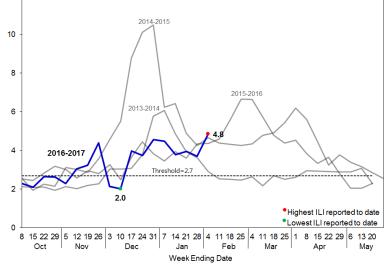


Figure 2. Percent of <u>emergency department</u> visits attributed to influenza-like illness based on manual reports by individual hospitals, Chicago, by week, for the current season (2016-2017) and 12 previous three seasons, October-May.



cy department visits, and of those visits, the number with ILI. For the week of January 29-February 4, 2017, with 9 hospitals reporting, 4.8% 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 Chica-

go 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 29-February 4, 2017, 2.9% of all emergency department visits were due to ILI; Southside hospitals had slightly higher ILI at 3.3%, Northside hospitals at 3.1% and Westside hospitals had the lowest at 2.4% (**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 23 facilities reporting, 6.0% 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 29-February 4, 2017, with 6 laboratories reporting, 101 of the 742 (13.6%) specimens tested for influenza were positive (69 A (H3N2), 1 A (H1N1pdm09), 11 A [unknown subtype], and 20 influenza B).

Since October 2, 2016, 486 of 10,487 (4.6%) specimens tested for influenza have been positive; 377 typed as influenza A (321 H3N2, 6 H1N1pdm09, and 50 unknown subtype [subtyping not attempted or not all subtypes tested]) and 109 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 four seasons, Chicago, Weeks 40-05.

Influenza	%	% A	% A	% A Not	%	
Season			H1N1pdm09	Sub-typed	В	
2012-2013 <sup>*</sup>	16.2	76.8	6.1	13.8	3.4	
2013-2014	9.3	1.7	68.9	26.7	2.6	
2014-2015 <sup>*</sup>	16.3	77.4	0	14.4	5.0	
2015-2016	2.5	3.8	71.1	19.1	6.0	
2016-2017 <sup>*</sup>	4.6	66.0	1.2	10.3	22.4	
Influenza seasons where A (H3N2) was the predominant circulating strain						

#### Where can I get more information?

The Centers for Disease Control and Prevention's FluView<sup>4</sup> 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 Illinois<sup>5</sup> and

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.

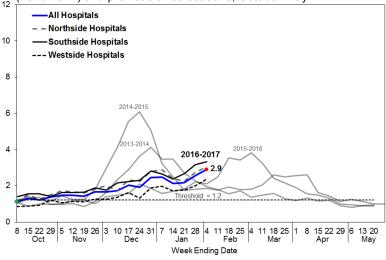


Figure 4. Percent of medically-attended <u>outpatient</u> visits attributed to influenza-like illness as reported by ILINet facilities, Chicago, by week, for the current season (2016-2017) and previous three seasons, October-May.

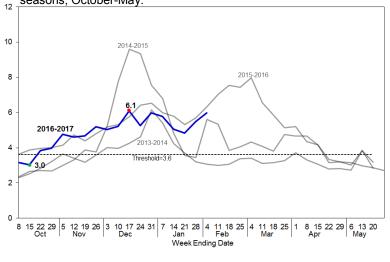
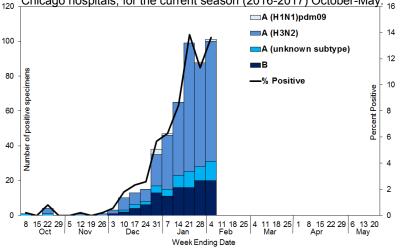


Figure 5. Percent of specimens testing positive (by RT-PCR) for influenza by subtype as reported by local laboratories serving Chicago hospitals, for the current season (2016-2017) October-May: 16



Suburban Cook County<sup>6</sup> 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 Chicago<sup>7</sup>.

<sup>4</sup>http://www.cdc.gov/flu/weekly/index.htm;<sup>5</sup>http://dph.illinois.gov/topics-services/diseases-and-conditions/influenza/surveillance;<sup>6</sup>http://cookcountypublichealth.org/data-reports/ communicable-diseases;<sup>7</sup>http://www.cityofchicago.org/city/en/depts/cdph/supp\_info/influenza/current\_flu\_situationinchicago2011.html Chicago Flu Update - 2