

five influenza surveillance indicators that 8 15 22 29 6 13 20 are routinely monitored during the influenza season (Figures 1-5).

News & Updates The 22nd Annual Chicago Infection Control Conference will be held on June 9th, 2017 at the Chicago Cultural Center; visit the Chicago HAN¹ website for more information and to register. Influenza viruses are detected throughout the year at low levels and can cause disease. Vaccination is the best way to protect against influenza and all Chicagoans aged six months and older are encourage to get vaccinated annually.

Apr

May

4 11 18 25

4 11 18 25

Feb

14 21 28

Jan

Week Ending Date

What is the risk?

15 22 29

5 12 19 26

Nov

Laborator

Currently, the risk of influenza infection has decreased.

3 10 17 24 3

Dec

Are severe cases of influenza occurring?

For the week of May 7-13, 2017, two influenzaassociated ICU hospitalizations were reported (Figure 1).

Since October 2, 2016, 275 influenza-associated ICU hospitalizations have been reported; 185 were positive for influenza A (108 H3N2, 2 H1N1pdm09 and 75 unknown subtype [subtyping not attempted or not all subtypes tested]) and 90 were positive for influenza B. The median age of reported cases is 62 years (range of 1 month - 100 years). Seventeen deaths have been reported among ICU cases including two pediatric patients and 19 (7.0%) cases were admitted from longterm care facilities; selected characteristics are summarized in Table 1.

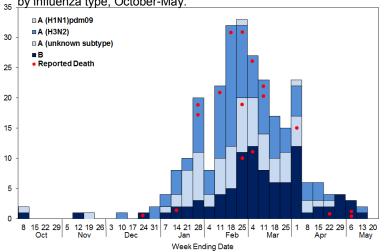
Table 1. Selected attributes of influenza-associated
intensive care unit hospitalizations reported for Chicago
residents for current season (2016-2017), October-May.

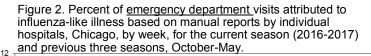
Age Group	#	%*	Sex	#	%			
0-4	28	10	Male	130	47			
5-17	30	11	Female	145	53			
18-24	6	2	Med. Cond./Complication [†]					
25-49	32	12	Lung Disease	90	33			
50-64	59	21	Cardiac Disease	79	29			
≥65	120	44	Diabetes	64	23			
Race/Ethnicity			Ventilator Support	71	26			
NH-White	83	30	Reported Deaths	17	6			
NH-Black	104	38	Treatment/Vaccination [†]					
Hispanic	73	27	Reported Antiviral Tx	190	69			
Asian	15	5	Reported Flu Shot	110	40			
* Percentages may not add up to 100 due to rounding: + As reported in								

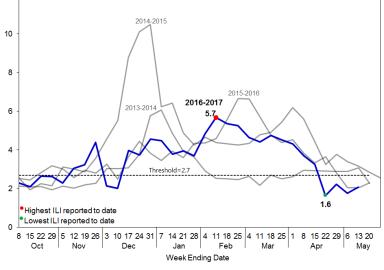
Percentages may not add up to 100 due to rounding: + As reported in INEDSS (Illinois National Electronic Disease Surveillance System).

How much influenza-like illness is occurring? CDPH receives data from several hospitals in Chicago that provide emergent care, which report on a weekly basis the total number of emergency department visits, and of those visits, the number with influenza-like illness (ILI) (i.e., fever of 100°F or greater, with cough or

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







sore throat). For the week of May 7-13, 2017, with 8 hospitals reporting, 2.1% 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 May 7-13, 2017, 1.3% of all emergency department visits were due to ILI; Southside hospitals had slightly higher ILI at 1.6% and Northside hospitals at 1.4% and Westside hospitals had slightly lower ILI at 1.0% (**Figure 3**).

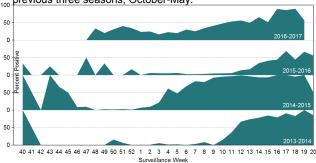
Several outpatient clinics throughout Chicago participate in CDC's Influenza-like Illness Surveillance Network (**ILINet**) by reporting on the number of patients with ILI seen weekly. For the week of May 7-13, 2017, with 21 facilities reporting, 4.4% of outpatient visits were due to influenza-like illness (**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 May 7-13, 2017, with 5 laboratories reporting, 16 of the 421 (3.8%) specimens tested for influenza were positive (7 A (H3N2), 0 A (H1N1pdm09), 0 A [unknown subtype], and 9 influenza B).

Since October 2, 2016, 2,076 of 20,959 (10.0%) specimens tested for influenza have been positive; 1,258 typed as influenza A (1,076 H3N2, 21 H1N1pdm09, and 161 unknown subtype [subtyping not attempted or not all subtypes tested]) and 818 typed as influenza B (**Figure 5**). Since mid-March, influenza B has accounted for over 50% of the specimens testing positive for influenza; influenza B tends to increase towards the end of the season (**Figure 6**).

Figure 6. Percent of specimens testing positive (by RT-PCR) for influenza B as reported by local laboratories serving Chicago hospitals, for the current season (2016-2017) and previous three seasons, October-May.



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

The Illinois Department of Public Health (IDPH) has

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.

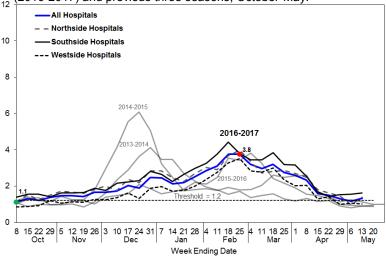


Figure 4. Percent of medically-attended <u>outpatient</u> visits attributed to influenza-like illness as reported by ILINet facilities, Chicago, by week, for the current season (2016-2017) and previous three seasons, October-May.

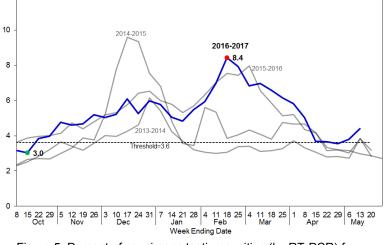
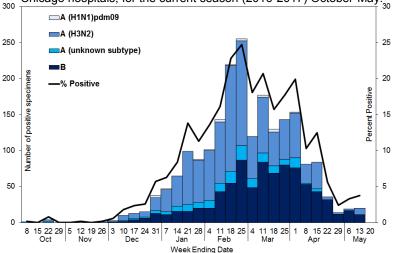


Figure 5. Percent of specimens testing positive (by RT-PCR) for influenza by subtype as reported by local laboratories serving Chicago hospitals, for the current season (2016-2017) October-May.



issued influenza testing and reporting recommendations⁶; healthcare facilities can report cases to the Chicago Department of Public Health via the Illinois National Electronic Disease Surveillance System (INEDSS).⁷

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²http://www.cdc.gov/flu/weekly/index.htm;³http://dph.illinois.gov/topics-services/diseases-and-conditions/influenza/surveillance;⁴http://cookcountypublichealth.org/data-reports/ communicable-diseases;⁵http://www.cityofchicago.org/city/en/depts/cdph/supp_info/influenza/current_flu_situationinchicago2011.html; ⁶http://www.dph.illinois.gov/sites/default/files/ publications/ohp-labs-influenzaannual-testing-and-reportingmemo-09222016.pdf;⁷https://dph.partner.illinois.gov/