Chicago Flu Update

November 25, 2016

Rahm Emanuel, Mayor
Julie Morita, MD, Commissioner

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. Vaccinate Illinois Week is December 4th-10th, 2016. CDPH and partners throughout the state will be reminding the public and healthcare providers about the importance of continuing to vaccinate throughout the fall and winter months. 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 schedule of City of Chicago influenza vaccination clinics 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; healthcare facilities can report cases to the Chicago Department of Public Health via INEDSS.

What is the risk?
Currently, the risk of influenza infection is low.

Are severe cases of influenza occurring?
During surveillance week 46, one influenza-associated ICU hospitalization was reported which was positive for influenza A by rapid test (Figure 1).
Since October 2, 2016, 4 influenza-associated ICU hospitalizations have been reported; 2 were positive for influenza A (unknown subtype [subtyping not attempted or not all subtypes tested]) and two were positive for influenza B.

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 surveillance week 46, with 9 hospitals reporting, 3.2% 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, 27 Chicago hospitals submit data to ESSENCE, covering nearly every emergency department visit in the city of Chicago. For surveillance week 46, 1.5% of all emergency department visits were due to ILI; Southside hospitals had slightly higher ILI at 1.8%, Northside hospitals at 1.6% and Westside hospitals had the lowest at 1.2% (Figure 3).

3 https://dph.partner.illinois.gov/
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 surveillance week 46, with 21 facilities reporting, 4.7% 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 surveillance week 46, with 6 laboratories reporting, 0 of the 496 specimens tested for influenza were positive.

Since October 2, 2016, 6 of 3,345 specimens tested for influenza were positive; all typed as influenza A (4 H3N2 and 2 (unknown subtype [subtyping not attempted or not all subtypes tested]) (Figure 5). The cumulative percent of specimens testing positive for influenza is similar to previous seasons during the same time period (Table 2).

Where can I get more information?
The Centers for Disease Control and Prevention’s FluView 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 and Suburban Cook County 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.

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 40-46.

<table>
<thead>
<tr>
<th>Influenza Season</th>
<th>% Positive</th>
<th>% A H3N2</th>
<th>% A H1N1pdm09</th>
<th>% A Not Subtyped</th>
<th>% A B</th>
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<tbody>
<tr>
<td>2013-2014</td>
<td>&lt;1</td>
<td>8</td>
<td>54</td>
<td>23</td>
<td>15</td>
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<tr>
<td>2014-2015</td>
<td>1%</td>
<td>52</td>
<td>0</td>
<td>12</td>
<td>36</td>
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<tr>
<td>2015-2016</td>
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<td>29</td>
<td>46</td>
<td>8</td>
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<tr>
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<td>&lt;1</td>
<td>67</td>
<td>0</td>
<td>33</td>
<td>0</td>
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All data are preliminary and may change as more reports are received.