News & Updates
Influenza activity continues to decrease, but remains elevated in Chicago and across the U.S. 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\(^1\) 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\(^2\); healthcare facilities can report cases to the Chicago Department of Public Health via INEDSS\(^3\).

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

Are severe cases of influenza occurring?
For the week of March 12-18, 2017, 15 influenza-associated ICU hospitalizations were reported (Figure 1).

Since October 2, 2016, 209 influenza-associated ICU hospitalizations have been reported; 151 were positive for influenza A (90 H3N2, 1 H1N1pdm09 and 60 unknown subtype [subtyping not attempted or not all subtypes tested]) and 58 were positive for influenza B. The median age of reported cases is 60 years (range of 1 month - 100 years). Eleven deaths have been reported among ICU cases including one pediatric patient and 14 cases were admitted from long-term care facilities; selected characteristics are summarized in Table 1.

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 March 12-18, 2017, with 9 hospitals reporting, 4.7% of emergency department visits were due to ILI (Figure 2).

ESSENCE is an electronic syndromic surveillance system that utilizes emergency department chief complaint data

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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 ESSENCE, covering every emergency department visit in the city. For the week of March 12-18, 2017, 3.4% of all emergency department visits were due to ILI; Southside hospitals had slightly higher ILI at 4.0%, Westside hospitals had slightly lower ILI at 3.1% and Northside hospitals at 3.0% (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 March 12-18, 2017, with 24 facilities reporting, 6.6% 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 March 12-18, 2017, with 6 laboratories reporting, 130 of the 828 (15.7%) specimens tested for influenza were positive (47 A (H3N2), 4 A (H1N1)pdm09, 10 A [unknown subtype], and 69 influenza B).

Since October 2, 2016, 1,530 of 15,712 (9.7%) specimens tested for influenza have been positive; 1,034 typed as influenza A (881 H3N2, 20 H1N1pdm09, and 133 unknown subtype [subtyping not attempted or not all subtypes tested]) and 496 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 40-11.

<table>
<thead>
<tr>
<th>Season</th>
<th>% A Pos.</th>
<th>% A H3N2</th>
<th>% A H1N1pdm09</th>
<th>% A Not Sub-typed</th>
<th>% B</th>
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<tbody>
<tr>
<td>2012-2013</td>
<td>13.7</td>
<td>71.6</td>
<td>6.2</td>
<td>13.5</td>
<td>8.7</td>
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<tr>
<td>2013-2014</td>
<td>8.4</td>
<td>69.3</td>
<td>2.1</td>
<td>25.3</td>
<td>3.3</td>
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<tr>
<td>2014-2015</td>
<td>14.6</td>
<td>66.9</td>
<td>0</td>
<td>15.1</td>
<td>17.7</td>
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<tr>
<td>2015-2016</td>
<td>8.4</td>
<td>76.6</td>
<td>2.5</td>
<td>16.5</td>
<td>4.3</td>
</tr>
<tr>
<td>2016-2017</td>
<td>9.7</td>
<td>57.6</td>
<td>1.3</td>
<td>8.7</td>
<td>32.4</td>
</tr>
</tbody>
</table>

*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® 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®.