What is the risk?
Currently, the risk of influenza infection has decreased.

Are severe cases of influenza occurring?
For the week of May 7-13, 2017, two influenza-associated 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 long-term 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.

<table>
<thead>
<tr>
<th>Age Group</th>
<th>%</th>
<th>Sex</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>28</td>
<td>10 Male</td>
<td>130</td>
</tr>
<tr>
<td>5-17</td>
<td>30</td>
<td>11 Female</td>
<td>145</td>
</tr>
<tr>
<td>18-24</td>
<td>6</td>
<td>2 Med. Cond./Complication†</td>
<td>120</td>
</tr>
<tr>
<td>25-49</td>
<td>32</td>
<td>12 Lung Disease</td>
<td>90</td>
</tr>
<tr>
<td>50-64</td>
<td>59</td>
<td>21 Cardiac Disease</td>
<td>79</td>
</tr>
<tr>
<td>≥65</td>
<td>120</td>
<td>44 Diabetes</td>
<td>64</td>
</tr>
</tbody>
</table>

Race/Ethnicity
NH-White | 83 | 30 Reported Deaths | 17 | 6
NH-Black | 104 | 38 Treatment/Vaccination† | 73 | 27 Reported Antiviral Tx | 190 | 69
Hispanic | 15 | 5 Reported Flu Shot | 110 | 40

† 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 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 ESSENCE, 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).

**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.

**Reporting Information**

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 the Illinois National Electronic Disease Surveillance System (INEDSS).

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7. [https://dph.partner.illinois.gov/](https://dph.partner.illinois.gov/)