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

Are severe cases of influenza occurring?
The Illinois Department of Public Health (IDPH) has issued influenza testing and reporting recommendations. Suspected novel and variant influenza, pediatric influenza-associated deaths, influenza-associated ICU hospitalizations and outbreaks of influenza-like illness in a congregate setting should all be reported to CDPH via INEDSS. For the week of March 6-12, 2016 (week 10), 24 influenza-associated ICU hospitalizations were reported. The cumulative number of reported influenza-associated ICU hospitalizations is lower than last year at this time but higher than the prior four seasons (Figure 1).

Since October 4, 2015, 192 influenza-associated ICU hospitalizations have been reported; 188 were positive for influenza A (6 H3N2, 105 (H1N1)pdm09 and 77 unknown subtype [subtyping not attempted or not all subtypes tested]) and 4 was positive for influenza B. One hundred (52%) were non-Hispanic Black, 110 (57%) were male, and 55 (29%) were 65 years of age or older (median age of 53 years with a range of 3 months-99 years). Sixty (31%) had reported lung disease (e.g. asthma, COPD), 45 (23%) had active cardiac disease and 53 (28%) required ventilator support. Ten deaths were reported. Four outbreaks consisting of two or more confirmed cases of influenza were reported in long-term care facilities.

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). All hospitals in Chicago that provide emergent care are required to 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 6-12, 2016 with 10 hospitals reporting, 5.7% of emergency department visits were due to ILI (Figure 2). ESSENCE is an electronic syndromic surveillance system that utilizes emergency department chief complaint data submitted daily by participating 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, 10 Chicago hospitals submit data to ESSENCE. For the week of March 6-12, 2016, 3.3% of emergency department visits were due to ILI (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. From March 6-12, 2016, with 26 facilities reporting, 6.6% of 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 subtyping. For the week of March 6-12, 2016, with 6 laboratories reporting, 205 of the 1064 (19%) specimens tested for influenza were positive (157 A (H1N1)pdm09, 2 A (H3N2), 36 A [unknown subtype] and 10 influenza B). Since October 4, 2015, 1132 of 14,158 (8%) specimens tested for influenza have been positive; 1,085 typed as influenza A (27 H3N2, 875 (H1N1)pdm09, 183 unknown subtype [subtyping not attempted or not all subtypes tested]) and 47 were 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 (Table 1).

**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. In 2013, the Metropolitan Chicago Healthcare Council (MCHC) and CDPH released “Stop the Spread: A Health Care Guide to Influenza Preparedness.” This report provides an overview of influenza, its impact on public health and how hospitals can prepare for, mitigate the impact of and respond to influenza infections and outbreaks.

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**Table 1. Cumulative percent of specimens testing positive for influenza by subtype for the current season (2015-2016) and the previous five seasons, Chicago, Weeks 40-10.**

<table>
<thead>
<tr>
<th>Influenza Season</th>
<th>Total Positive</th>
<th>A H3N2</th>
<th>A H1N1pdm09</th>
<th>A Not Subtyped</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010-2011</td>
<td>13%</td>
<td>27%</td>
<td>25%</td>
<td>29%</td>
<td>19%</td>
</tr>
<tr>
<td>2011-2012</td>
<td>5%</td>
<td>15%</td>
<td>22%</td>
<td>19%</td>
<td>45%</td>
</tr>
<tr>
<td>2012-2013</td>
<td>14%</td>
<td>73%</td>
<td>6%</td>
<td>14%</td>
<td>7%</td>
</tr>
<tr>
<td>2013-2014</td>
<td>9%</td>
<td>2%</td>
<td>70%</td>
<td>26%</td>
<td>3%</td>
</tr>
<tr>
<td>2014-2015</td>
<td>15%</td>
<td>72%</td>
<td>0%</td>
<td>15%</td>
<td>13%</td>
</tr>
<tr>
<td>2015-2016</td>
<td>8%</td>
<td>2%</td>
<td>77%</td>
<td>16%</td>
<td>4%</td>
</tr>
</tbody>
</table>

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**Figure 3. Percent of emergency department visits attributed to influenza-like illness based on chief complaint data submitted to ESSENCE, Chicago, by week, for the current season (2015-2016) and the previous three seasons, October-May.**

**Figure 4. Percent of medically attended outpatient visits attributed to influenza-like illness as reported by ILINet facilities, Chicago, by week, for the current season (2015-2016) and the 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 (2015-2016) October-May.**

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All data are preliminary and may change as more reports are received.

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The 21st Annual Chicago Infection Control Conference May 20th, 2016 at the Chicago Cultural Center Registration and Agenda Coming Soon!

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