I. Influenza-like Illness (ILI) Weekly Summary

- Influenza activity is currently low. This risk assessment is based on:
  - The proportion of emergency department visits for ILI was 1.83%, above the regional baseline of 1.05%, and has been decreasing for one week.
  - The proportion of outpatient provider visits for ILI was 1.13%, above the regional baseline of 0.73%, and has been decreasing for one week.
  - The proportion of deaths associated with pneumonia or influenza was 4.40%, below the epidemic threshold of 6.21%.
- Twenty-six (1.29%) laboratory specimens tested positive for influenza: 3 influenza A H1N1, 1 influenza A H3N2, 13 influenza A unknown subtype, and 9 influenza B.
- Zero influenza-associated intensive care unit (ICU) hospitalizations were reported during Week 48. Four ICU hospitalizations have been reported since Week 35.
- Since Week 35, 0 influenza-associated pediatric deaths, 0 clusters of ILI in schools, and 1 outbreak of influenza in a long-term care facility have been reported.
- **Current recommendations** for flu prevention and control are to promote influenza vaccination and respiratory hygiene.

Note: Surveillance for ILI in suburban Cook County involves the weekly collection of data from hospitals, physicians’ offices, and laboratories. Thank you to all of our surveillance partners for their help in collecting this information.

II. Influenza Activity Level / Disease Burden

**Emergency Department Syndromic Surveillance**

![Graph showing Emergency Department Syndromic Surveillance data from September 35 to May 2019 for Week 48.](chart.png)
It is National Influenza Vaccination Week, and it’s not too late to get vaccinated! A study of over 3,000 adults found that flu vaccination reduced the risk of being admitted to an intensive care unit (ICU) by 82%. Flu vaccines can prevent illness and serious complications as long as virus is circulating.
III. Circulating Strains

- A (unknown subtype)
- A H3N2
- A H1N1
- B

IV. Seasonal Severity

**ICU Hospitalizations**

<table>
<thead>
<tr>
<th>Cumulative Case Count</th>
<th>#</th>
<th>Incidence Rate</th>
<th>Per 100,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Cases</td>
<td>4</td>
<td></td>
<td>0.18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incidence Rate by Age</th>
<th>Incidence Rate by Region</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>0.70 North</td>
</tr>
<tr>
<td>5-24</td>
<td>0 West</td>
</tr>
<tr>
<td>25-49</td>
<td>0.13 Southwest</td>
</tr>
<tr>
<td>50-64</td>
<td>0 South</td>
</tr>
<tr>
<td>65+</td>
<td>0.64</td>
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</tbody>
</table>

The CDC is hosting a webinar on #HowIRecommend Flu Vaccine: How to Make Recommendations that Matter to Patients on Dec 12 at 1pm CST. Go to www.phf.org/events to register.
V. Regional Flu Activity

% of Visits forILI
VI. United States Flu Activity

2018-19 Influenza Season Week 48 ending Dec 01, 2018

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


1. Data extracted from syndromic surveillance system, ESSENCE; all hospital emergency departments (EDs) in suburban Cook County participate in ESSENCE. Influenza-like-illness (ILI) defined as a symptom complex of fever and cough or sore throat. ILI = # of ED visits for ILI / total # of ED visits.

2. Data extracted from the U.S. Influenza-like Illness Surveillance Network (ILINet); 6 hospitals and 3 physician offices serve as CDC sentinel sites in Cook County. ILI defined as fever ≥ 100°F, cough and/or sore throat in the absence of a known cause other than influenza. ILI = # of visits for ILI / total # of visits.

3. Includes viral culture, RT-PCR, and the rapid antigen test. Cases may reside outside suburban Cook County. Participating laboratories: Illinois Department of Public Health Sentinel Laboratories, NorthShore University Health System, Loyola University Medical Center, and ACL Laboratories.

4. Cases reported are suburban Cook County residents (excluding Evanston, Skokie, Oak Park, and Stickney) with known age and residence. Cases aggregated by week of admission. Includes all cases reported through the presented week. Rates calculated with 2010 census data.

5. Includes all deaths where the immediate cause of death or a contributing factor was pneumonia and/or influenza (aspiration pneumonia excluded). Data includes all of Cook County and has one week lag behind other surveillance indicators. The 3-week running median is displayed. The percentage of deaths due to P&I are compared with a seasonal baseline and epidemic threshold value calculated for each week. Seasonal baseline is calculated using a periodic regression model that incorporates a CDC based robust regression procedure applied to data from the previous four years. An increase of 1.645 standard deviations above the seasonal baseline of P&I deaths is considered the “epidemic threshold,” i.e., the point at which the observed proportion of deaths attributed to pneumonia or influenza was significantly higher than would be expected at that time of the year in the absence of substantial influenza-related mortality. http://www.cdc.gov/flu/weekly/overview.htm#Mortality

6. Map produced using the proportion of outpatient visits to health care providers for ILI reported through ILINet. Activity levels are compared to the average percent of ILI visits that occur during weeks with little or no influenza virus circulation. http://www.cdc.gov/flu/weekly/index.htm