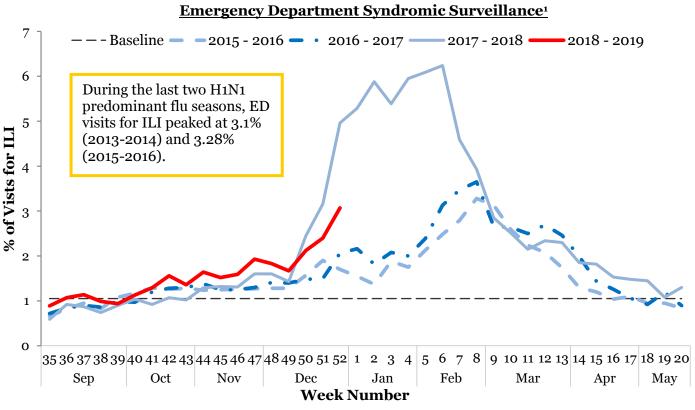


I. Influenza-like Illness (ILI) Weekly Summary

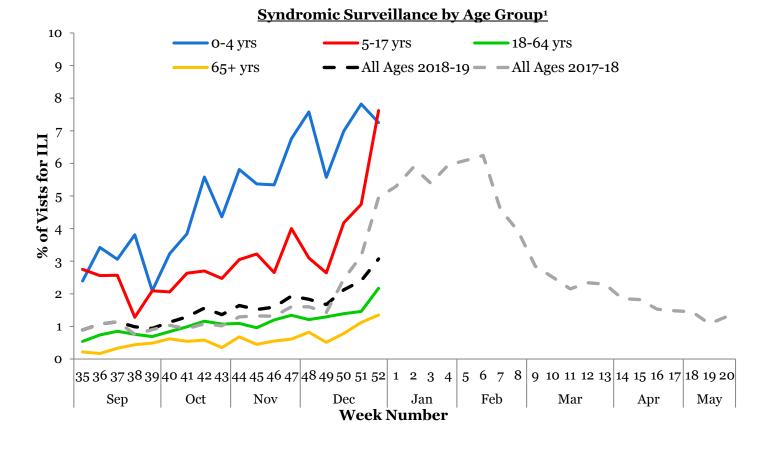
- Influenza activity is currently increasing. This risk assessment is based on:
 - The proportion of emergency department visits for ILI was 3.07%, above the regional baseline of 1.05%, and has been increasing for three weeks.
 - The proportion of outpatient provider visits for ILI was 2.15%, above the regional baseline of 0.73%, and has been increasing for three weeks.
 - $\circ~$ The proportion of deaths associated with pneumonia or influenza was 4.65%, below the epidemic threshold of 6.57%.
- Two hundred seventy-eight (9.24%) laboratory specimens tested positive for influenza: 21 influenza A H1N1, 7 influenza A H3N2, 239 influenza A unknown subtype, and 11 influenza B.
- Eight influenza-associated intensive care unit (ICU) hospitalizations were reported during Week 52. Twenty-two 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 <u>respiratory hygiene</u>. Offer masks to symptomatic individuals with cough.

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.

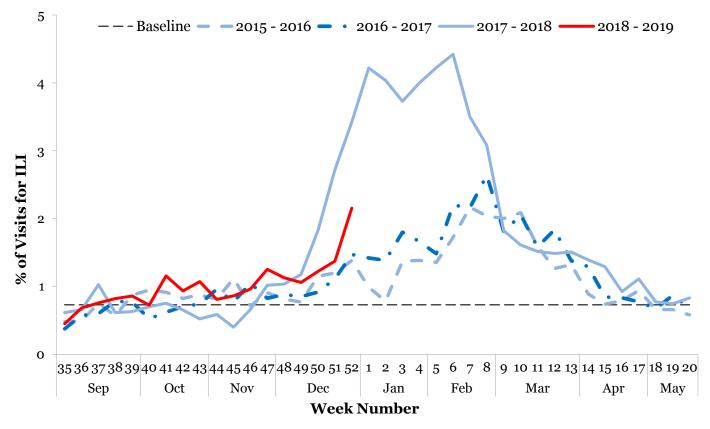
II. Influenza Activity Level / Disease Burden



Week 52 / Page 1

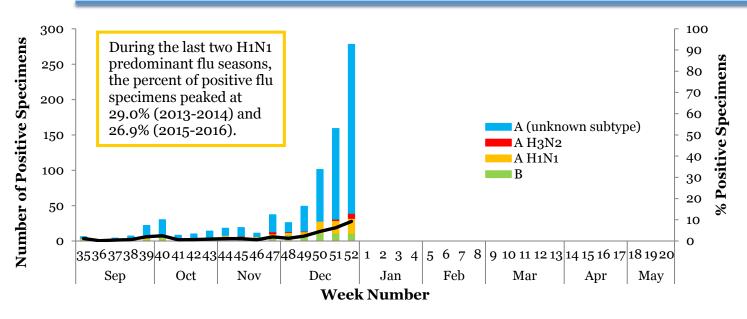


Outpatient Sentinel Providers²



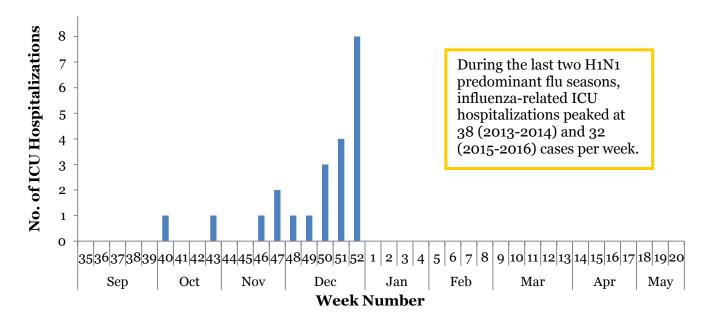
Week 52 / Page 2

III. Circulating Strains³

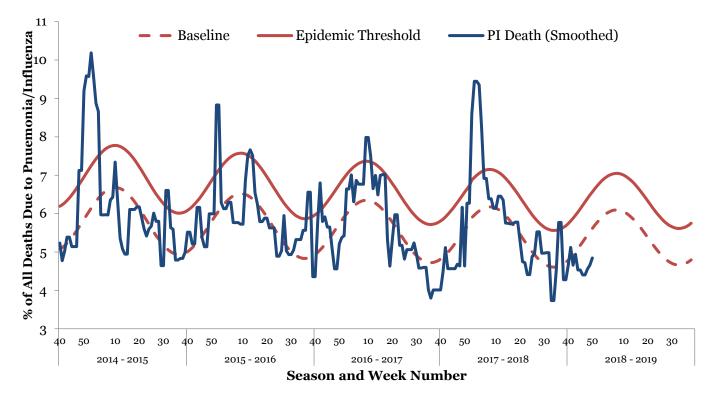


IV. Seasonal Severity

Cumulative Case Count	#	Incidence Rate	Per 100,000
Total Cases	22		0.97
Incidence Rate by Age		Incidence Rate by Region	
0-4	2.09	North	0.86
5-24	0.17	West	1.19
25-49	0.79	Southwest	0.55
50-64	1.10	South	1.27
65+	2.25		

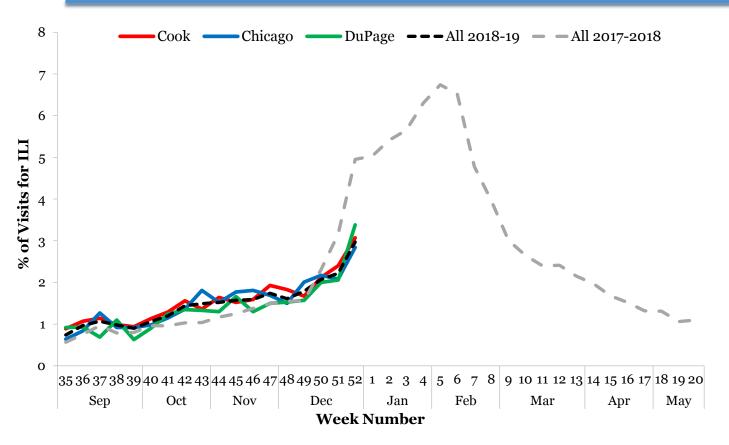


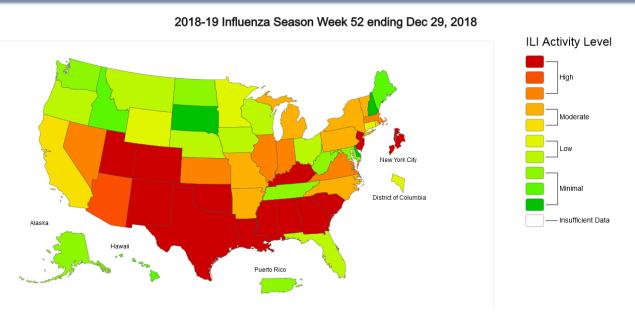
ICU Hospitalizations4



Pneumonia and Influenza Mortality⁵

V. Regional Flu Activity¹





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

For further information about influenza activity see: <u>City of Chicago Surveillance Report</u>, <u>DuPage County Surveillance</u> <u>Report</u>, <u>Illinois Department of Public Health Surveillance Report</u>, <u>CDC Surveillance Report</u>.

- 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 \geq 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-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. <u>http://www.cdc.gov/flu/weekly/index.htm</u>