



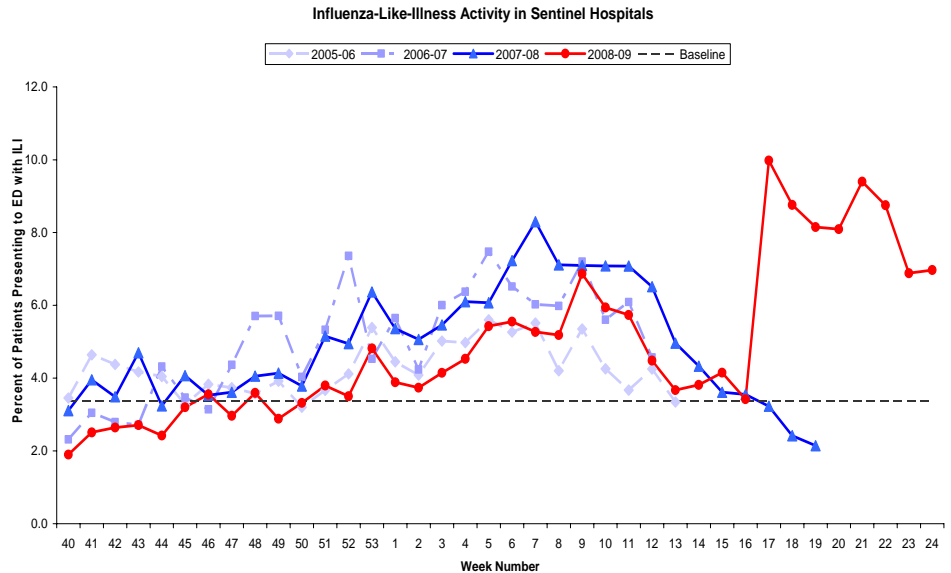
**Sentinel Influenza Surveillance Report
Week 24: June 14th – June 21st, 2009**

Influenza Summary to Date

Influenza surveillance for suburban Cook County** involves the weekly collection of data from a sample of hospitals and private physician's offices. Our sentinel participants reported the following aggregate measures: Hospital ED: 6.97% ILI¹, Physicians: 1.05% and ESSENCE: 2.04% ILI. We use these data to help us determine the presence of influenza in distinct geographic populations throughout suburban Cook County**, and to guide our prevention activities. Thank you to all of our surveillance partners for their help in collecting this information. Note that the sustained increase for weeks 17 - 24 is not due to seasonal influenza activity; it is due to the outbreak of the novel influenza A virus, subtype H1N1.

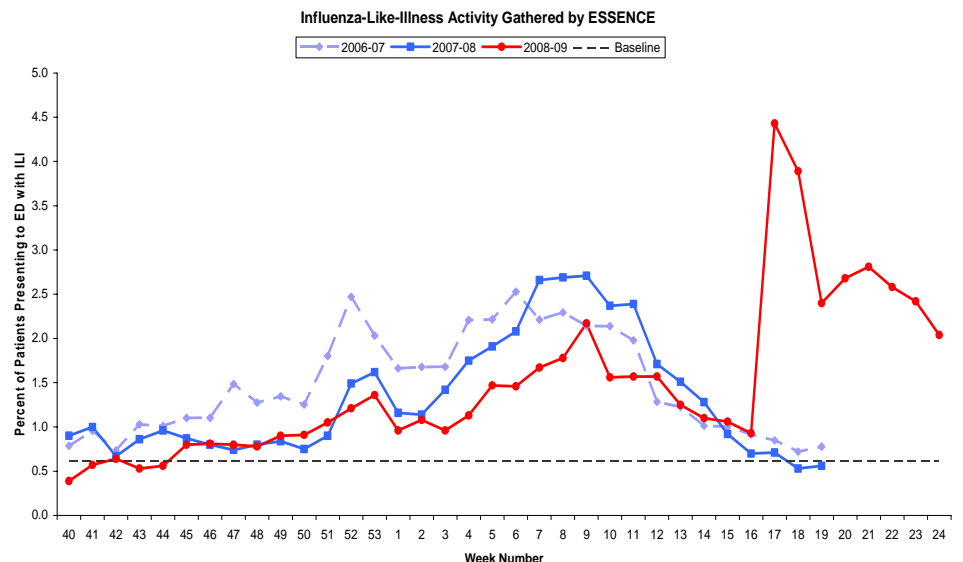
Emergency Department (ED) Data

There were 3,344 ED visits to four sentinel hospitals in suburban Cook County** of which, 233 individuals presented with ILI. The percentage of ED patients with ILI was 6.97% for the past week. ILI activity at sentinel hospital sites ranged from 2.75 to 15.09%. The sustained increase in ILI for is due to the outbreak of the novel influenza A subtype, H1N1 virus.



ESSENCE Surveillance Data

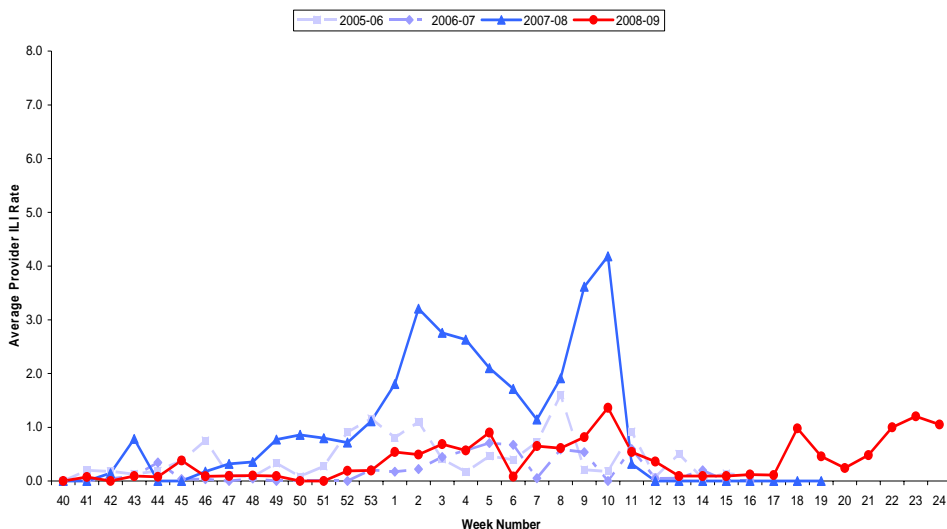
ESSENCE is a syndromic surveillance system that electronically tabulates the number of emergency department (ED) visits that present with a specific combination of symptoms² (syndrome). During this surveillance period, ESSENCE recorded 20,870 ED visits of which, 425 individuals presented with symptoms consistent with influenza-like illness (ILI). The percentage of ED patients with ILI was 2.04% for week 24. The sustained increase in ILI activity is due to the outbreak of the novel influenza A virus, subtype H1N1.



Physician Office Data

At this time one of eight sentinel physician offices in suburban Cook County** have reported that 1.05% patients reported symptoms consistent with ILI. All sentinel physicians are CDC sentinel providers; the aggregate CDC suburban Cook County** is provided. The increase in ILI activity is due to the outbreak of the novel influenza A virus, subtype H1N1.

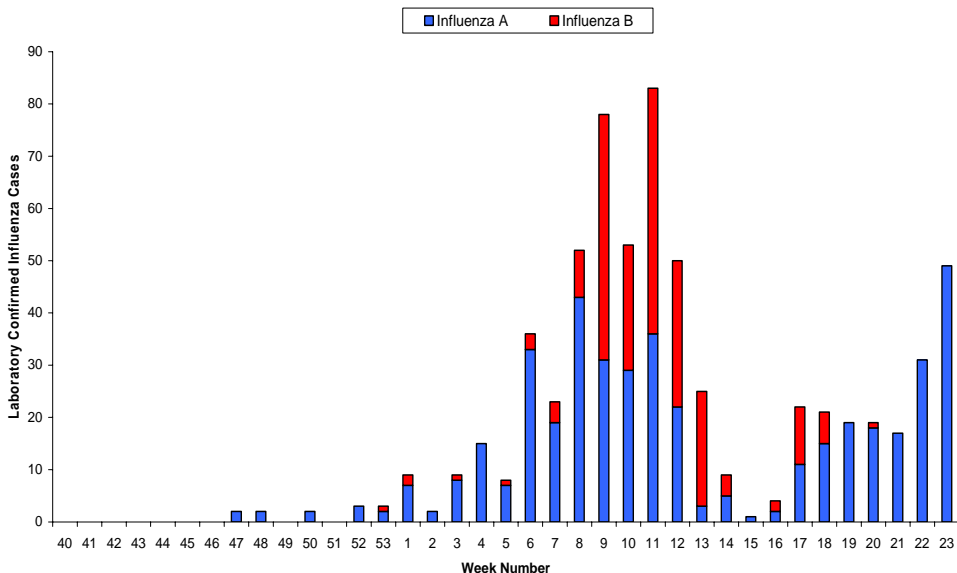
Average Influenza-Like-Illness Activity in Suburban Cook County CDC Sentinel Physician Sites



Reported Laboratory Confirmed Cases

From September 28th, 2008 – June 21st, 2009 hospitals* reported 645 laboratory confirmed cases of influenza in suburban Cook County** residents (352 pediatric cases). The distribution of the isolates for this time period was: influenza A (not subtyped) – 434 isolates, influenza A (H3N2) – 1 isolate, influenza B – 207 isolates, based on viral culture, EIA, or PCR. Note the large increase in weeks 17 - 24, due to the outbreak of novel H1N1 influenza.

Reported Laboratory Confirmed Cases of Influenza in Suburban Cook County Residents For the 2008 - 2009 Influenza Season, based on EIA, PCR, or Viral Culture

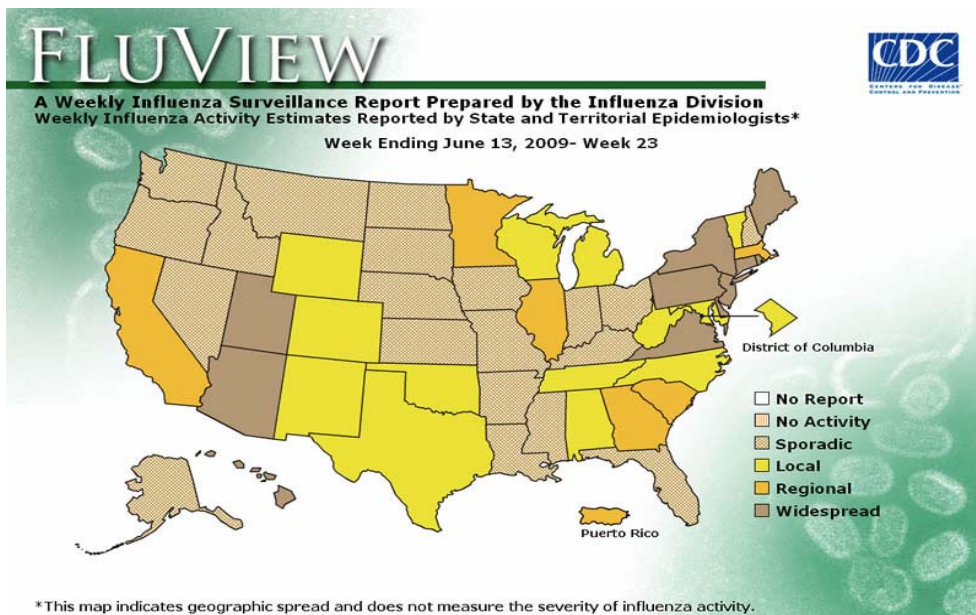


Illinois and U.S. Data³

Influenza activity in Illinois week 23 has been designated as regional[†] activity. Flu activity throughout the USA is presented in the map for week of June 7th – 13th, 2009. Eleven states reported widespread activity, 6 states reported regional activity, 13 states reported local activity, and 20 states reported sporadic activity at this time.

WHO and NREVSS laboratories reported 7,149 specimens tested for influenza viruses and 2,765 were positive (38.7%). The distribution of isolates was: influenza A (H1) – 22, A (H3) – 21, A (not subtyped) – 429, A (could not be subtyped) – 24, A (novel H1N1) 2,263, and influenza B – 6.

Nationally, the proportion of patient visits to sentinel providers for ILI (1.8%) was below baseline. The proportion of deaths attributed to pneumonia and influenza was above the epidemic threshold.



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

1. **ILI** (influenza-like-illness) is defined as fever $\geq 100^{\circ}\text{F}$, cough and/or sore throat in the absence of a known cause other than influenza.
 2. **ILI ESSENCE** syndrome is defined as a symptom complex fever and cough or sore throat.
 3. <http://www.cdc.gov/flu/weekly/index.htm>
- ** Excludes Evanston, Skokie, Oak Park & Stickney
- † **No activity:** no laboratory confirmed cases of influenza and no reported increase in cases of ILI.
Sporadic: small number of laboratory confirmed influenza cases or a single laboratory confirmed influenza in a single region of the state.
Local: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in a single region of the state.
Regional: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the region of the state.
Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory confirmed influenza in at least half the region in the state.
- * Hospitals: two hospitals that normally report laboratory confirmed cases of influenza in suburban Cook County residents; this does not include the IDPH laboratory.