



Kane County 2010-2011

Influenza Surveillance Summary

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Kane County, Illinois Influenza-Like Illness Surveillance 2010-2011

During the months October through April, the Kane County Health Department tracks influenza activity in our county by monitoring:

- Visits to Emergency Departments for Influenza-Like Illness (ILI)¹
- Hospital laboratory testing for influenza
- ILI associated absenteeism in public schools (Grades K-12)
- Influenza-associated pediatric deaths
- Influenza-related ICU admissions and ICU deaths (*new for 2010-2011 season*)
- Reports of influenza outbreaks in long-term care facilities

The health department would like to thank the participating hospitals and school districts that provided weekly reports that made this monitoring possible. Below are graphs representing the percentage of ER patients that were seen with ILI, the average ILI absenteeism rate from public schools in Kane County and influenza laboratory testing activity.

Summary

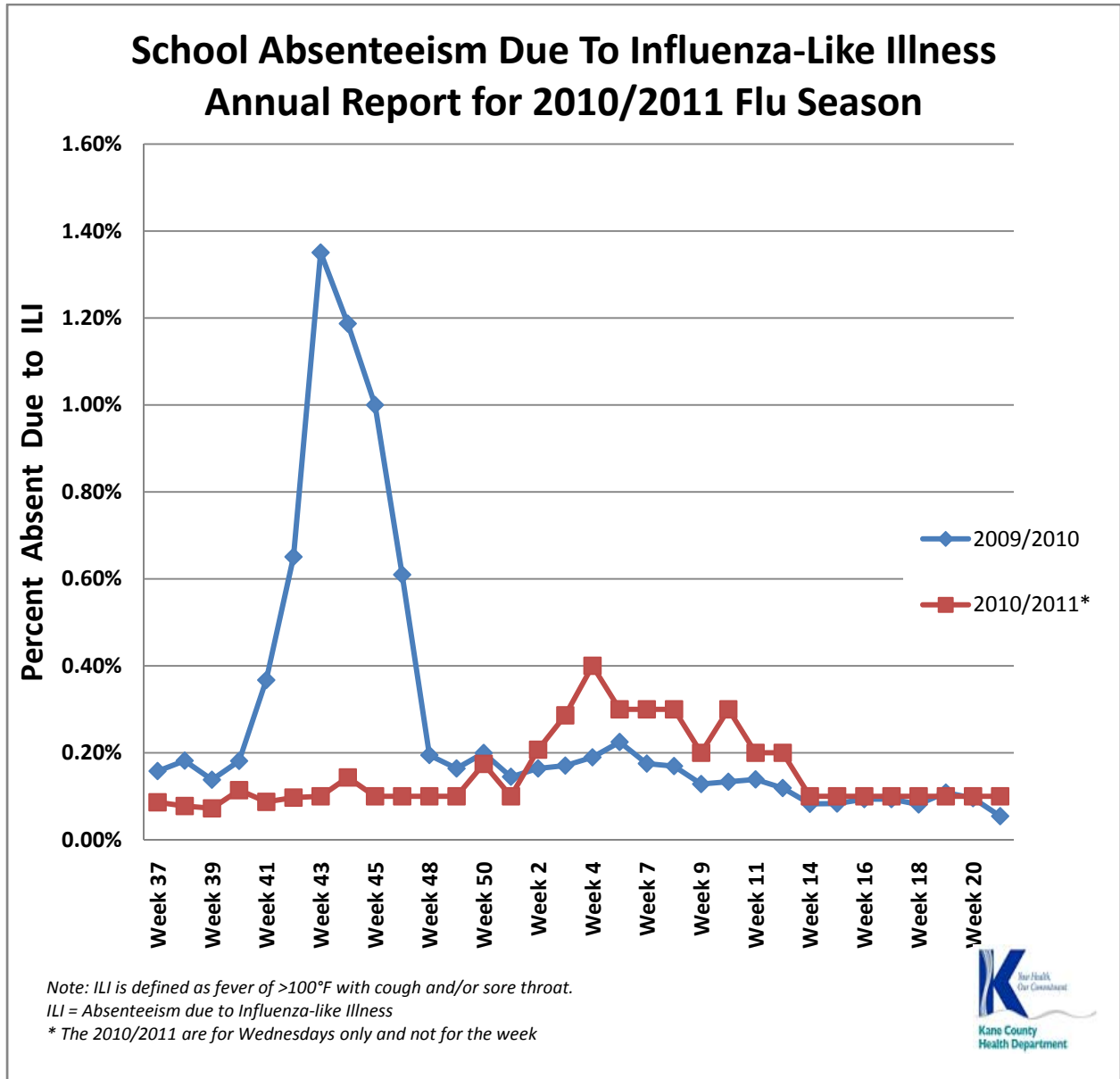
Kane County Health Department conducted Influenza-Like-Illness surveillance for 2010-2011 beginning in October through the end of April. Influenza activity in Kane County during 2010-2011 season peaked in February. The predominant strain during the 2010-2011 influenza season was type A.

There were **12** influenza-related ICU admissions and **3** reported influenza-related ICU deaths in Kane County during influenza season 2010-2011. There were four reports of outbreaks from long-term care facilities.

¹ Influenza-like-illness (ILI) is defined as fever > 100° F with cough or sore throat without other known cause

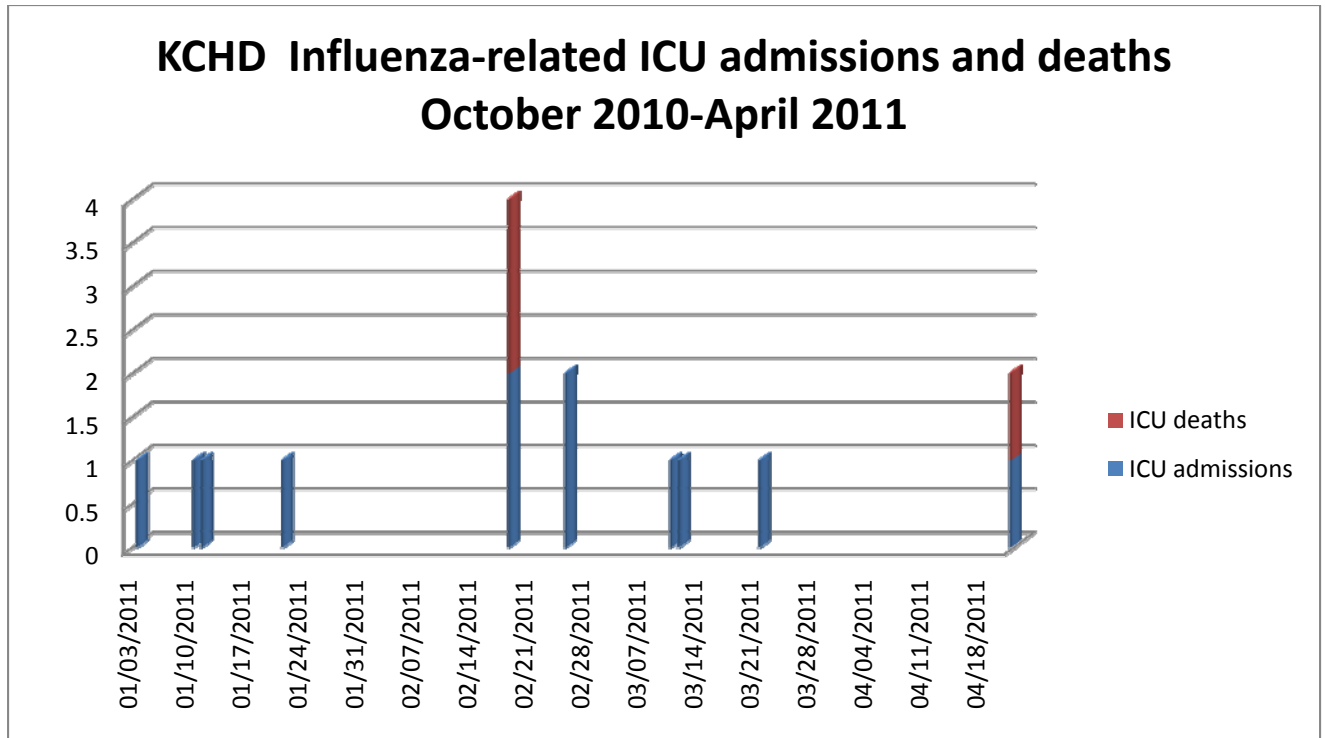
School Influenza-Like Illness Surveillance

Data represents all school districts that reported ILI related absenteeism during the 2010-2011 school year. A total of 146 schools reported. The individual school maximum was 10.69% and the minimum was 0%. The county average absenteeism due to ILI activity among school age children in Kane County peaked on 1/26/2011, thirteen weeks later than 2009/2010 flu season. The county maximum was 0.4% and the county minimum 0.1%.



Influenza-related ICU (Intensive Care Unit) admissions and Deaths

A total of 12 Influenza-related ICU admissions during the influenza season were reported in Kane County. The first report was received the week ending 1/8/2011. An additional 11 Influenza-related ICU admissions occurred through the week ending 4/22/2011. Three Influenza-related ICU deaths were reported during this season.

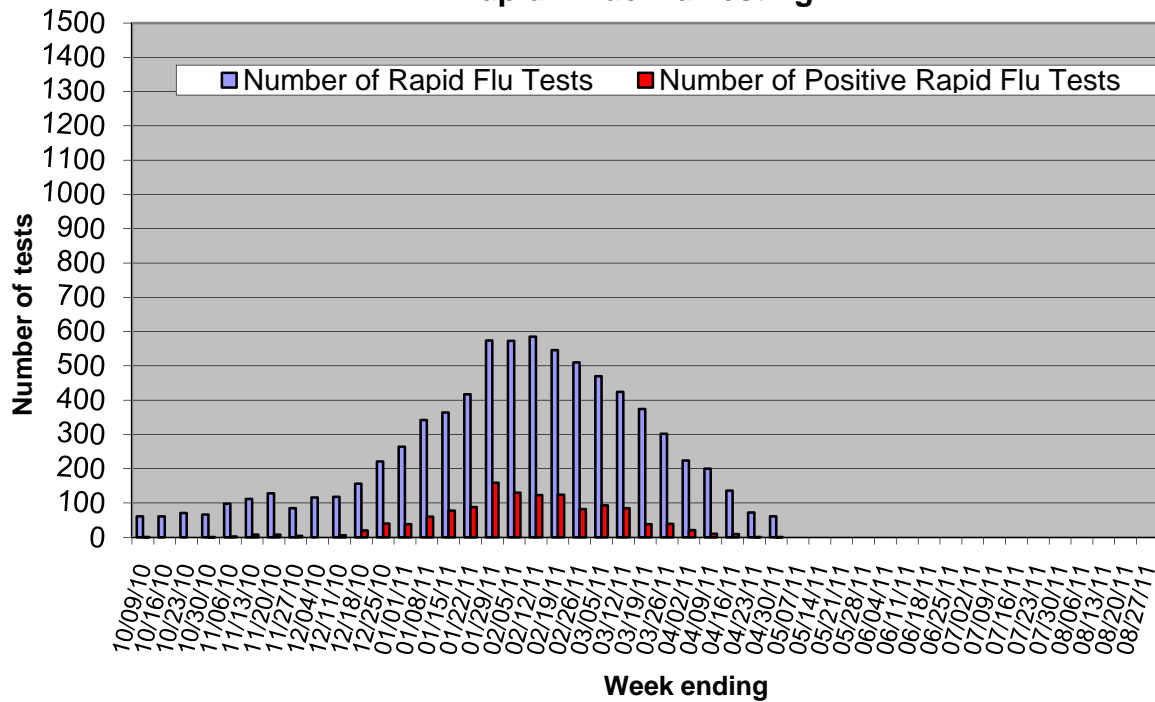


ICU admissions case count		#
Total cases		12
Total deaths		3
Incidence by Age(yrs)		#
0-4 y/o		0
5-24 y/o		1
25-49 y/o		2
50-64 y/o		4
65+ y/o		5
Incidence by Region		#
North		7
Mid		2
South		3

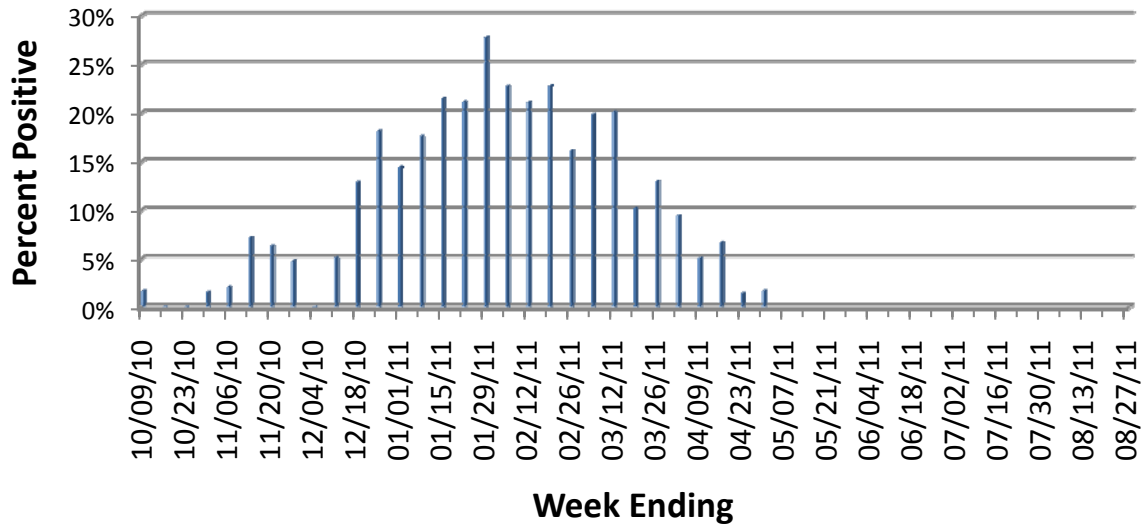
Laboratory Surveillance

Hospital laboratories around the county submitted reports of the number of influenza tests performed and the number of positive tests each week during the 2010-2011 influenza season. The total number of respiratory specimens that tested positive for influenza peaked during week ending 02/12/2011. The percent positivity peaked during week ending 01/29/2011 and declined after that week. Of the specimens tested positive during 2010-2011 influenza season, 846 (66.8%) were positive for Influenza type A.

**Kane County Health Department
2010-2011 Influenza-Like-Illness Surveillance
Participating Laboratories (N=6)
Rapid Influenza Testing**



**2010-2011 Kane County Health Department
Influenza -Like -Illness Surveillance
Participating Laboratories (N=6)
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Laboratory Influenza Type Results
Kane County, 2010-2011 Influenza Season

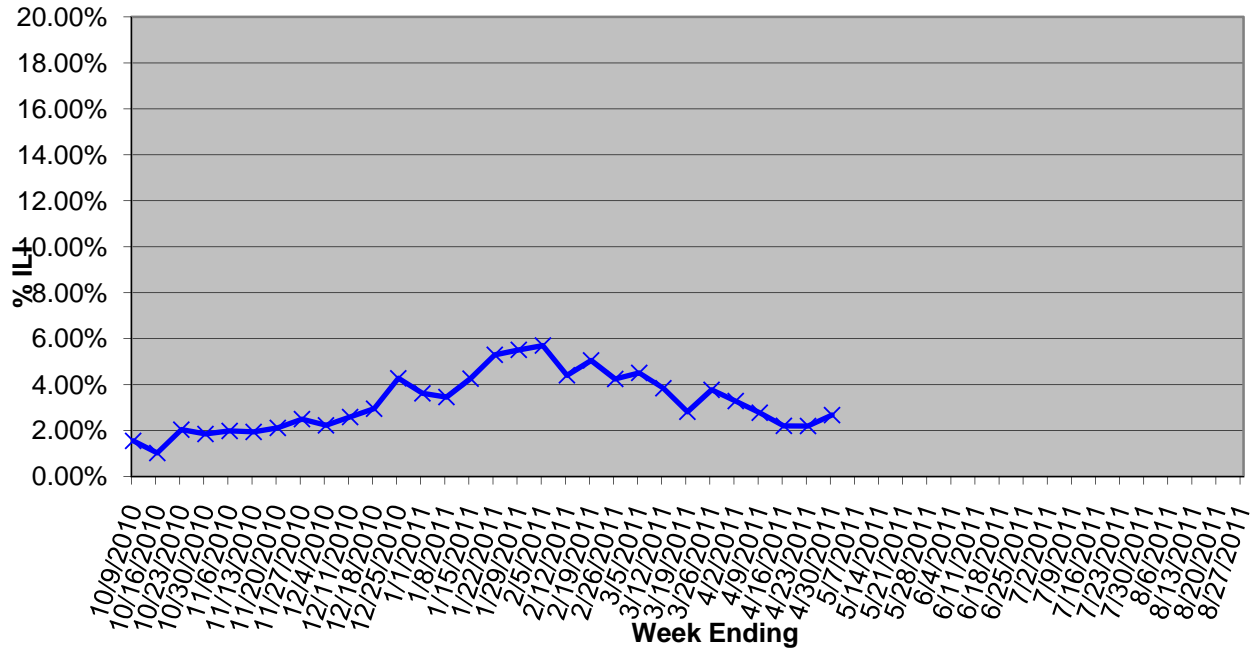
Lab data	Cumulative (percentage) 10/09/2010-04/30/2011
TOTAL	7731
TOTAL Positive	1266 (100%)
Influenza A	846 (66.8%)
Influenza B	407 (32.1%)
Influenza AB	4 (0.31%)
UNKOWN	11 (0.86%)

Influenza-Like Illness (ILI) Emergency Room Surveillance

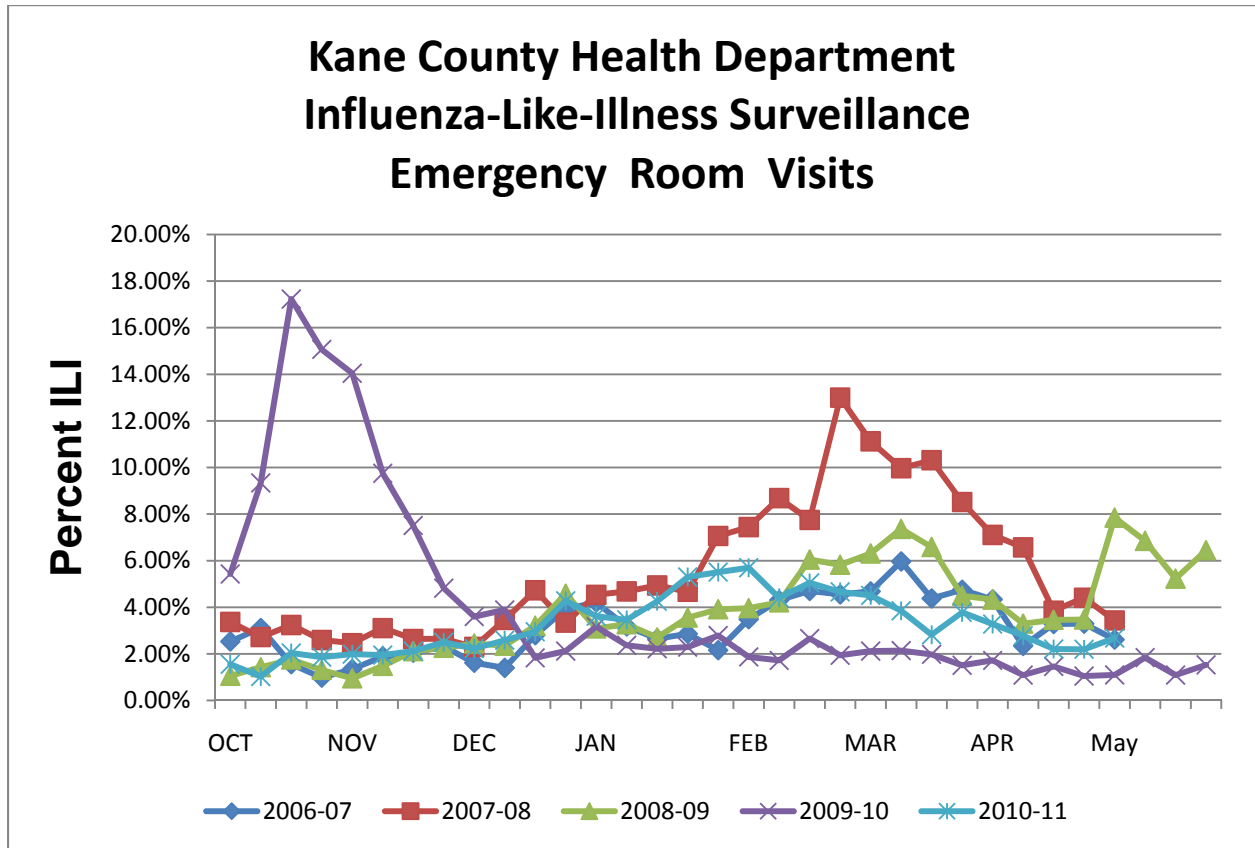
The reports indicate that influenza activity began to increase during the week of 12/25/2010 and returned to baseline levels during week ending of 04/09/2011.

The peak percent of ILI visits to Emergency Rooms peaked during the week ending 02/05/2011. The magnitude of the peak percent on 02/05/2011 ILI (5.7%) was higher than any other previous flu seasons, except 2007-2008.

**Kane County Health Department
2010-2011 Influenza-Like-Illness Surveillance
Participating Emergency Rooms (N=5)
Percent of Patient Visits for ILI**



Kane County Health Department ILI Surveillance data for the previous 5 flu seasons.



Long-Term Care Facilities (LTCF) Influenza Outbreaks

Long-Term Care Facilities are requested to report outbreaks of influenza or ILI. There were four reports of outbreaks reported early January, 2011 through February, 2011. A total of 47 residents and staff were reporting Influenza-like-illness.

Special thanks to the Kane County Health Department Communicable Disease and Community Health Resources programs for compiling the information and data for this report. Thanks to our reporters at the schools, districts, hospitals, long term cares and laboratories who contributed data each week.