



**Kane County 2013-2014  
Influenza Surveillance Summary**

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# Kane County, Illinois Influenza-Like Illness Surveillance 2013-2014

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During the months of 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)<sup>1</sup>
- 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
- Reports of influenza outbreaks in long-term care facilities

The health department would like to thank participating hospitals, labs 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, influenza outbreak in long term care facilities, influenza laboratory testing activity, ICU admissions and pediatric deaths related to influenza.

## Summary

Kane County Health Department conducted Influenza-Like-Illness surveillance for 2013-2014 year beginning in October through end of April. Influenza activity in Kane County during 2013-2014 season peaked in week 1 (week ending January 4, 2014), consistent with a nationwide heightened flu activity for the same time period. The predominant strain during this increased activity was influenza A.

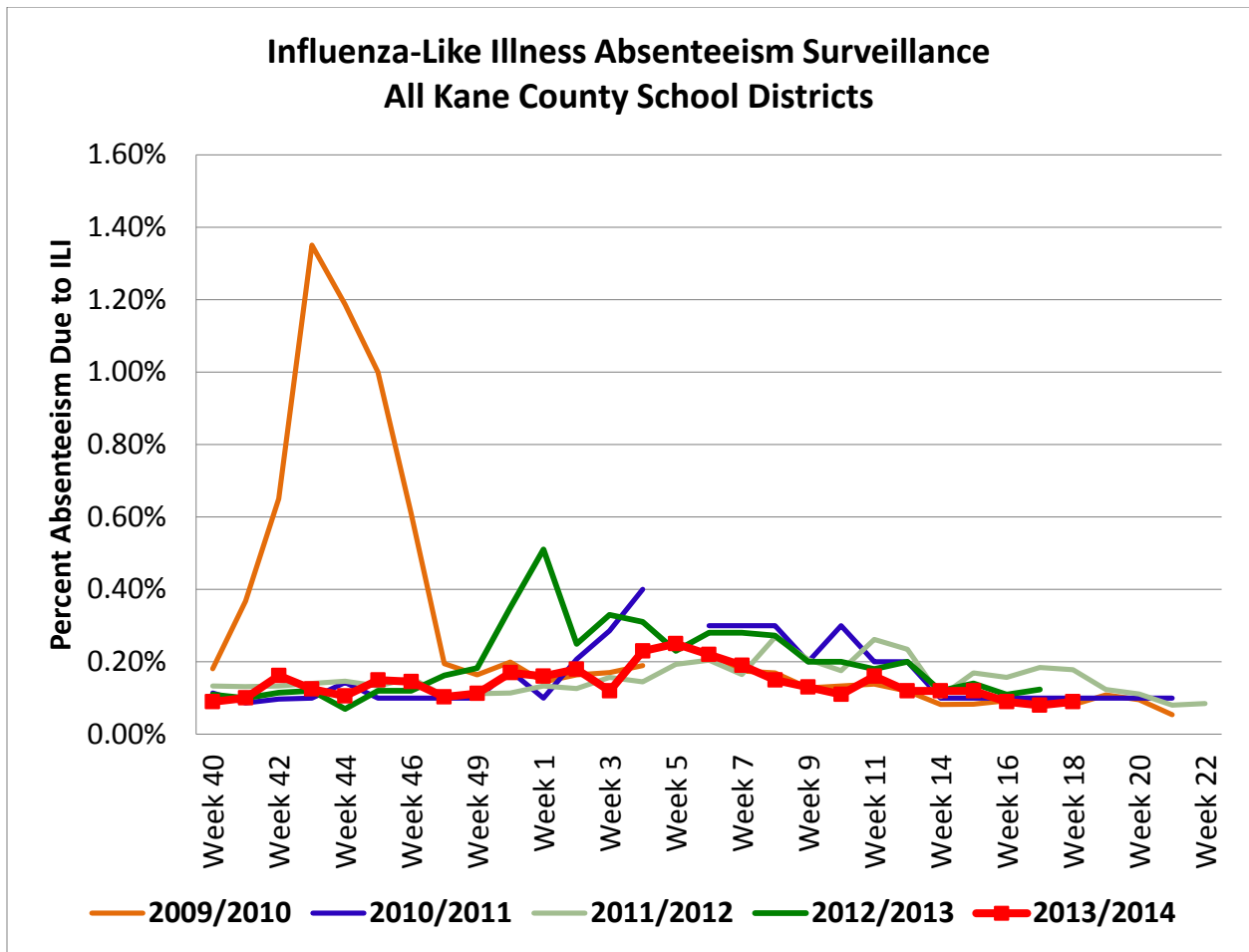
There were a total of 16 influenza-related ICU admissions in Kane County during influenza season 2013-2014, and one influenza outbreak in a long term care /assisted living facility.

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

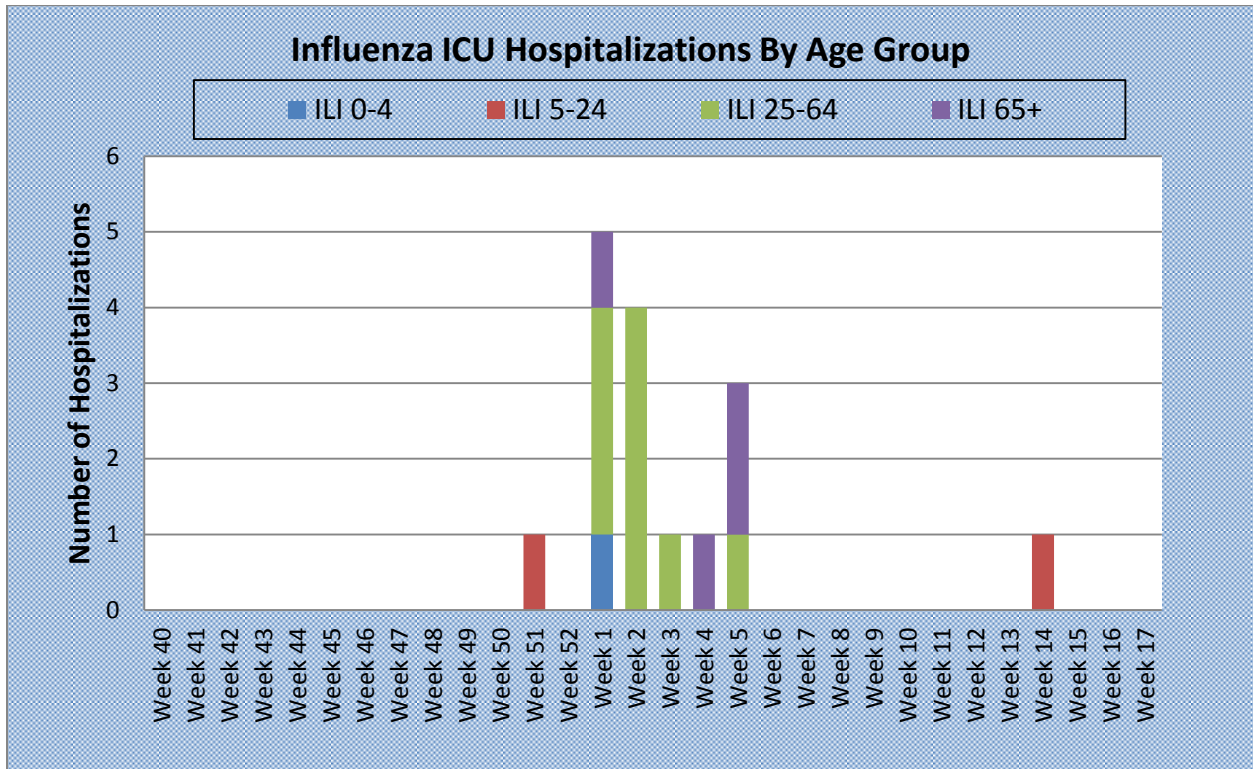
## School Influenza-Like Illness Surveillance

Data represents public schools that reported ILI-related absenteeism during the 2013/2014 school year. The individual school maximum was 4.83% and the minimum was 0%. The county mean absenteeism rate due to ILI activity among school age children was 0.14%. The county range was 0.08% to 0.25%. The peak of 0.25% was reached in week 5, week ending 2/1/04



## Influenza-related ICU (Intensive Care Unit) Admissions and Deaths

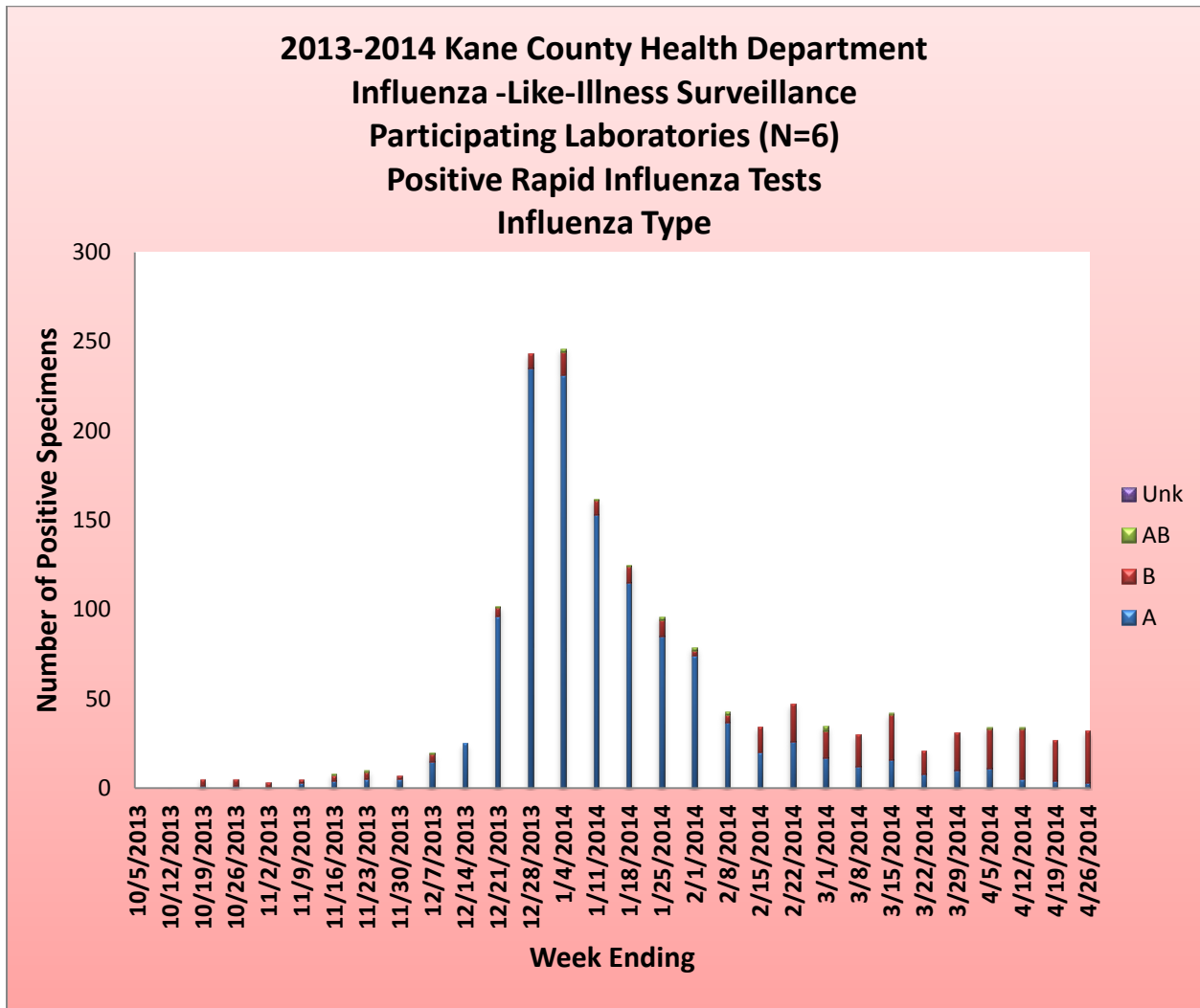
A total of 16 cases of Influenza related ICU admissions were reported to the Health Department this flu season. ICU influenza admissions peaked in week 1 at 5 admissions. The age range of cases is 2 years to 90 years. The mean age was 48 years. A late ICU hospitalization was received in May after the flu season. This case was not included in this analysis. No Influenza-associated pediatric deaths were reported.



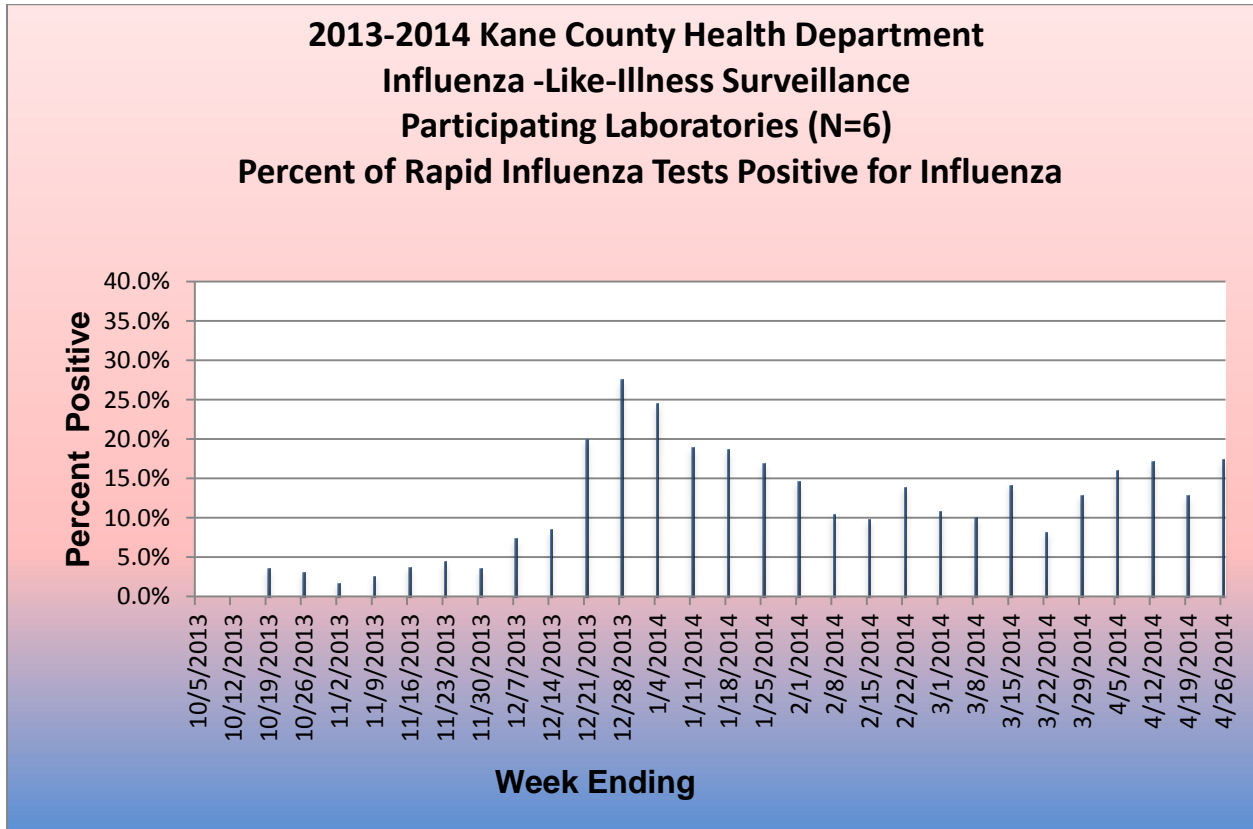
ICU Admissions Case Count	#
<b>Total cases</b>	<b>16</b>
Total deaths	0
Cases by Age Group	#
0 - 4 Years	1
5 - 24 Years	2
25 - 64 Years	9
65+ Years	4
<b>Total</b>	<b>16</b>

## Laboratory Surveillance

Each week the six laboratories in the county reported data on rapid influenza testing done in their facilities during the influenza surveillance season. The total number of respiratory specimens that tested positive for influenza peaked during week ending 12/29/2012. The percent positivity also peaked during week ending 1/4/2014. Overall, of the 10,405 tests done at the six labs in Kane County, 1,551 (14.91%) were positive for influenza. The maximum was 27.55% during the week ending 12/28/2013.



Of the 1,551 specimens that tested positive during 2013-2014 influenza season, 1,217 (78.5%) were positive for Influenza type A, 314 (20.2%) were positive for influenza type B and 20 (1.3%) were positive for A and B.



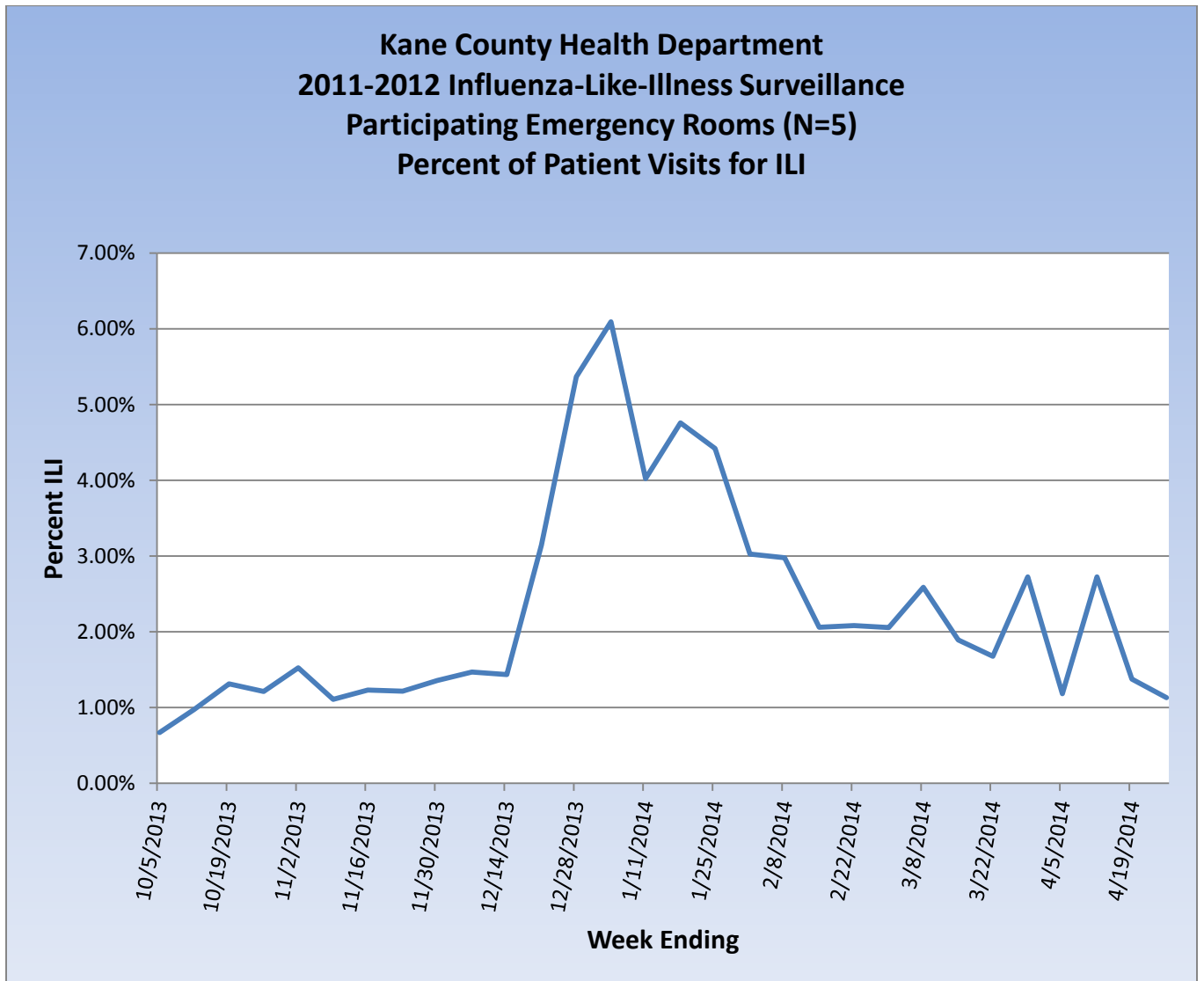
**Laboratory Influenza Type Results  
Kane County, 2013-2014 Influenza Season**

Kane County Labs (6)	2013-2014	
	Number	Percent
Specimens tested	10,405	
Specimens positive	1,551	14.91%
<b>Positive specimens by type</b>		
Influenza A	1,217	78.5%
Influenza B	314	20.2%
Influenza AB	20	1.3%
Influenza type unknown	0	0.0%

The number of positive specimens peaked during the week ending 12/28/13. The predominant strain during the increased activity period was influenza A. Influenza B began to increase in dominance towards the end of the flu season, with its highest level in the week ending 4/26/14.

## Influenza-Like Illness (ILI) Emergency Room Surveillance

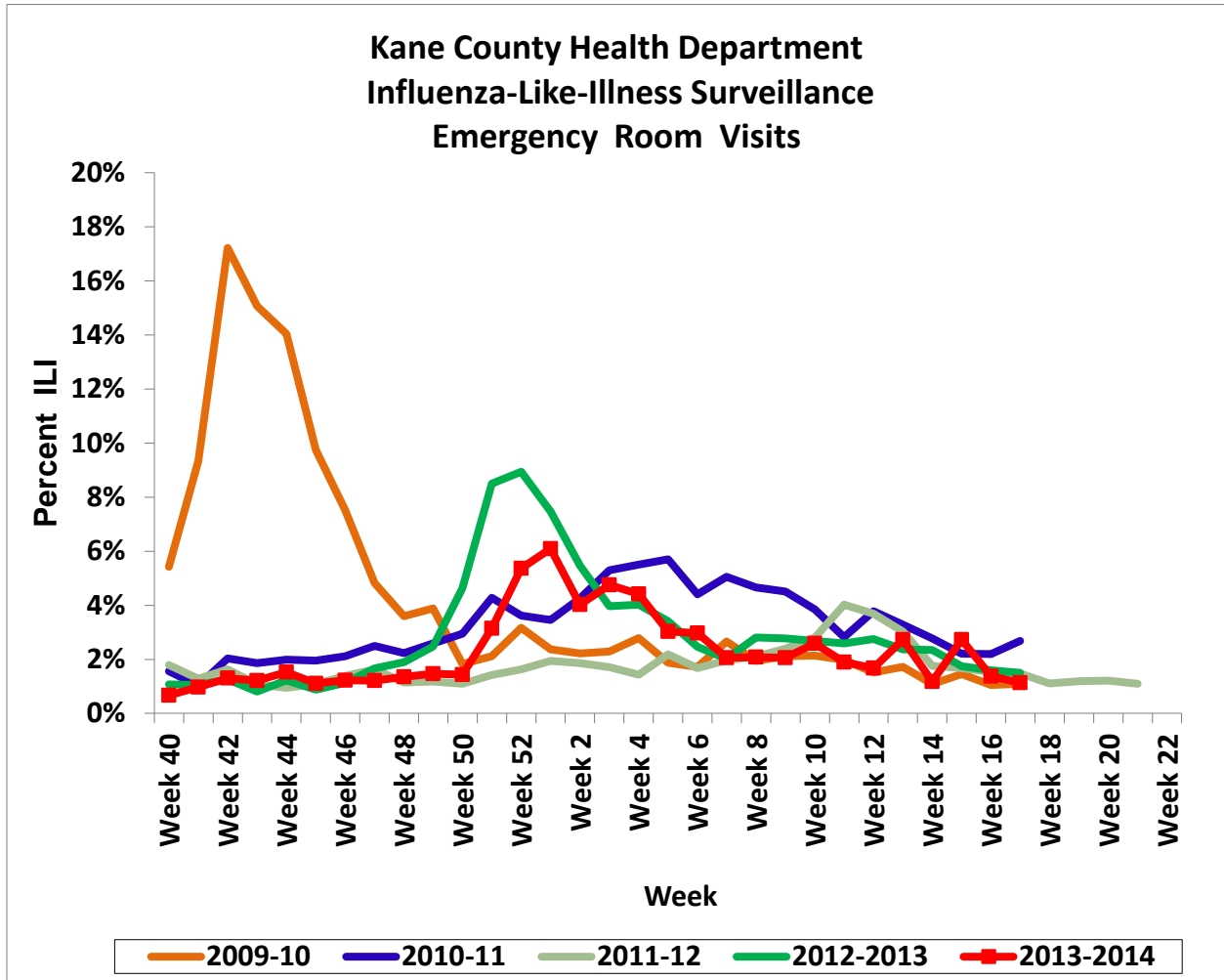
Influenza activity began to increase during the week of 12/28/2013. The peak percent of ILI visits to Emergency Rooms was during the week ending 1/4/2014. The magnitude of the peak was 6.09%. This was consistent with other indicators of high influenza activity during the same period. Last year, flu activity peaked one week earlier.





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

This graph shows that the 2013-2014 influenza season had the second highest peak in the last five years, not counting H1N1 outbreak. The peak was in week 1 at 6.09%. This season flu activity followed a similar pattern as the 2012-2013 season. There was increased activity towards the end of the season but it was not sustained.



## Long-Term Care Facilities (LTCF) Influenza Outbreaks

Long-Term Care Facilities report outbreaks of influenza. During the 2013-2014 influenza season there was only one outbreak in a long term care facility.

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