



Kane County 2012-2013

Influenza Surveillance Summary

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Kane County, Illinois Influenza-Like Illness Surveillance 2012-2013

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
- 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 laboratory testing activity, ICU admissions and pediatric deaths related to influenza.

Summary

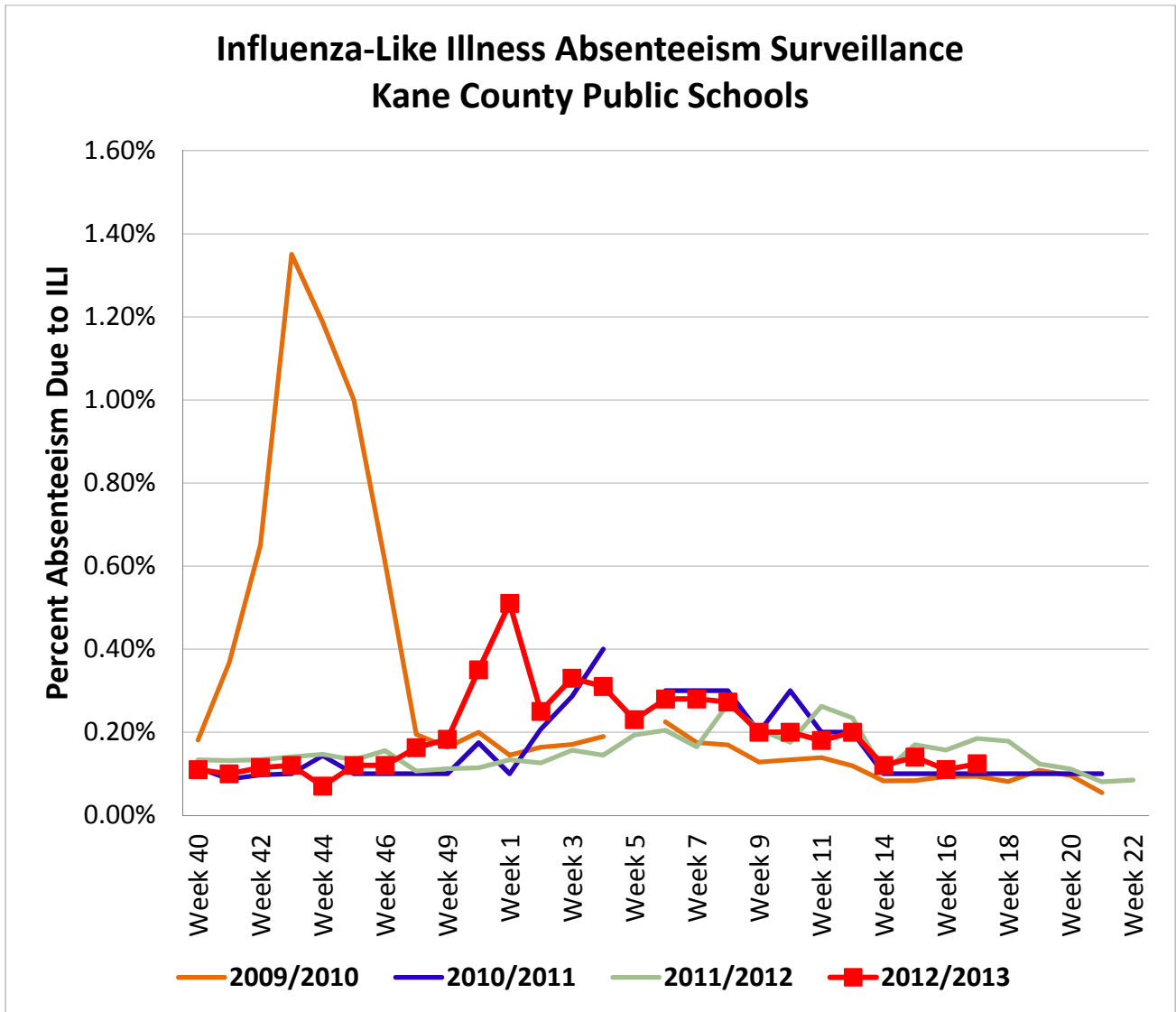
Kane County Health Department conducted Influenza-Like-Illness surveillance for 2012-2013 beginning in October through end of April. Influenza activity in Kane County during 2012-2013 season peaked in week 52 (last week of December) of 2012, consistent with a nationwide heightened flu activity for the same time period. The predominant strain during this increased activity was influenza A.

There were a total of 23 influenza-related ICU admissions in Kane County during influenza season 2012-2013, and 11 outbreaks in long term care /assisted living facilities.

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

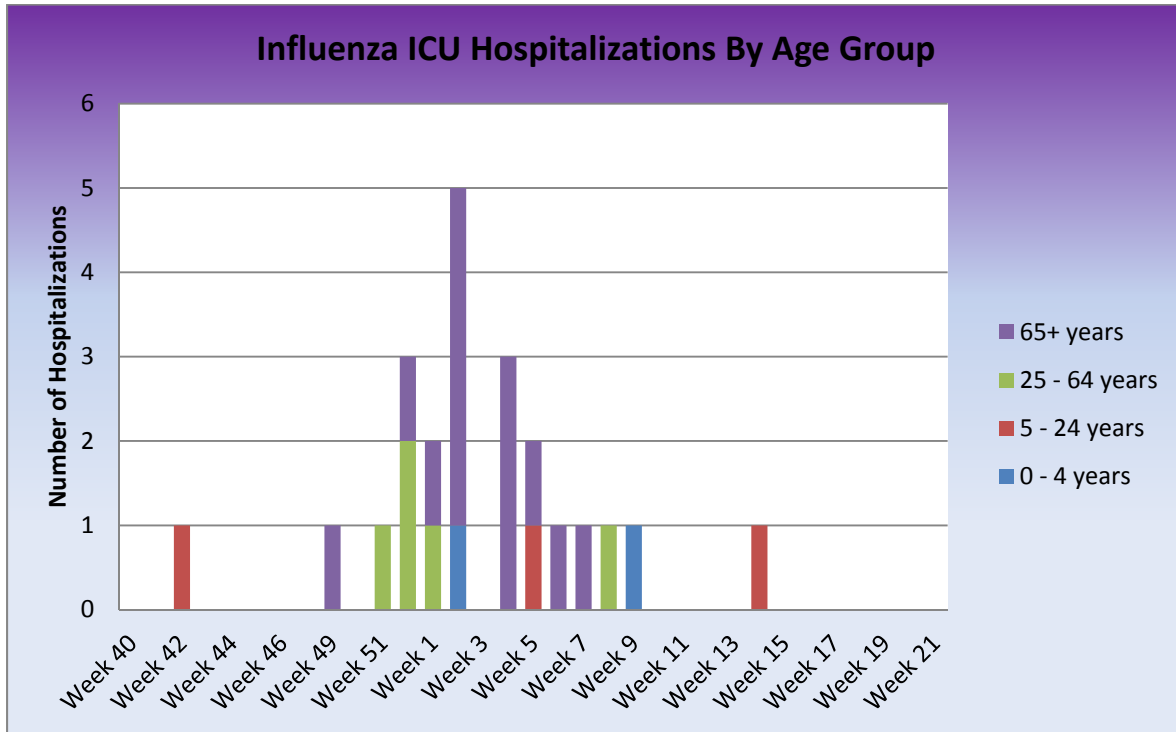
School Influenza-Like Illness Surveillance

Data represents public schools that reported ILI related absenteeism during the 2012/2013 school year. The individual school maximum was 4.2% and the minimum was 0%. The county average absenteeism due to ILI activity among school age children in Kane County peaked at 0.52% on 12/19/2012. The county range was 0.08% - 0.52%.



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

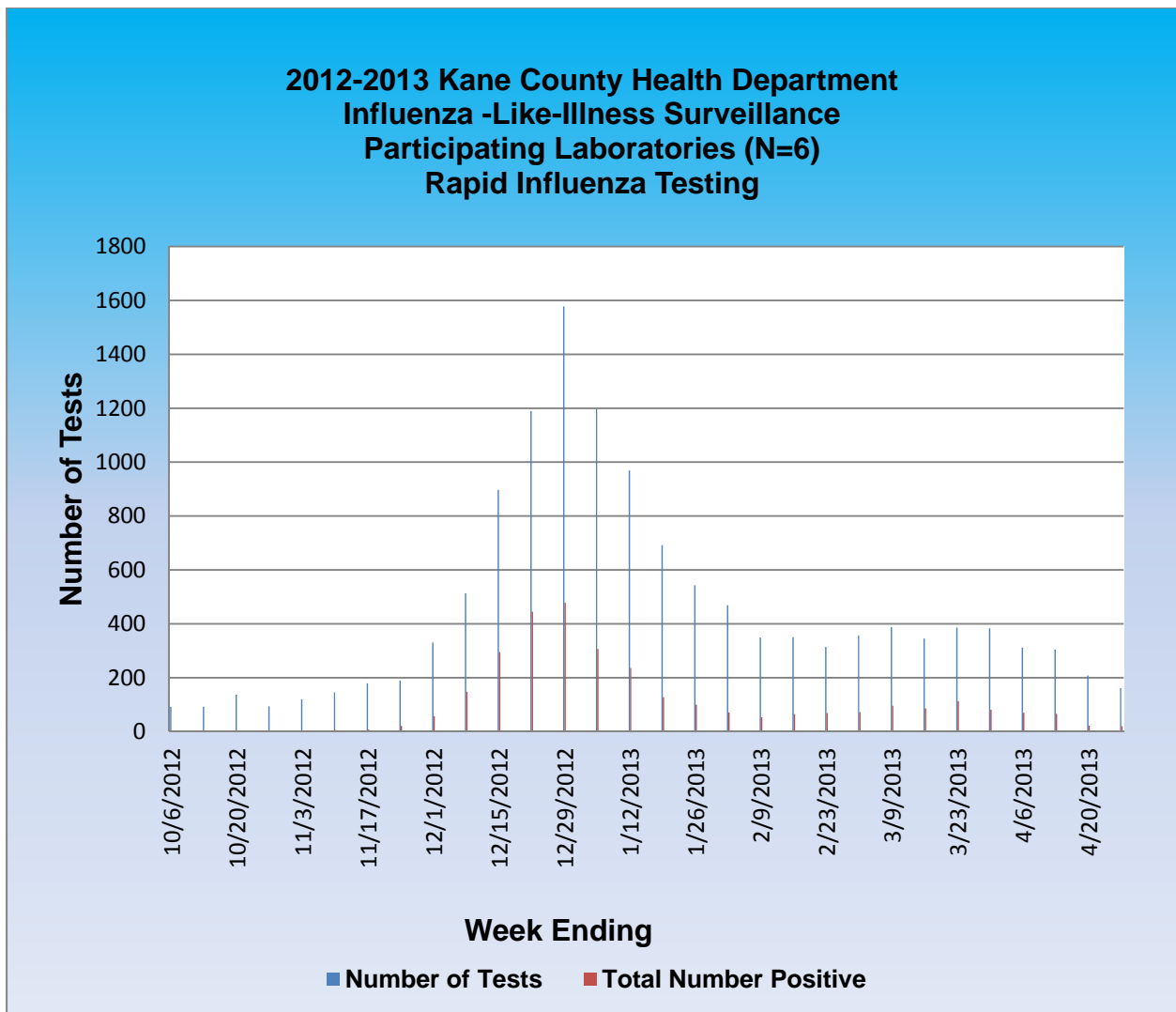
A total of 23 cases of Influenza related ICU admissions were reported to the Health Department this flu season. ICU influenza admissions peaked in week 3 at 5 admissions. The age range of cases is 7 months to 82 years. No Influenza-associated pediatric deaths were reported.



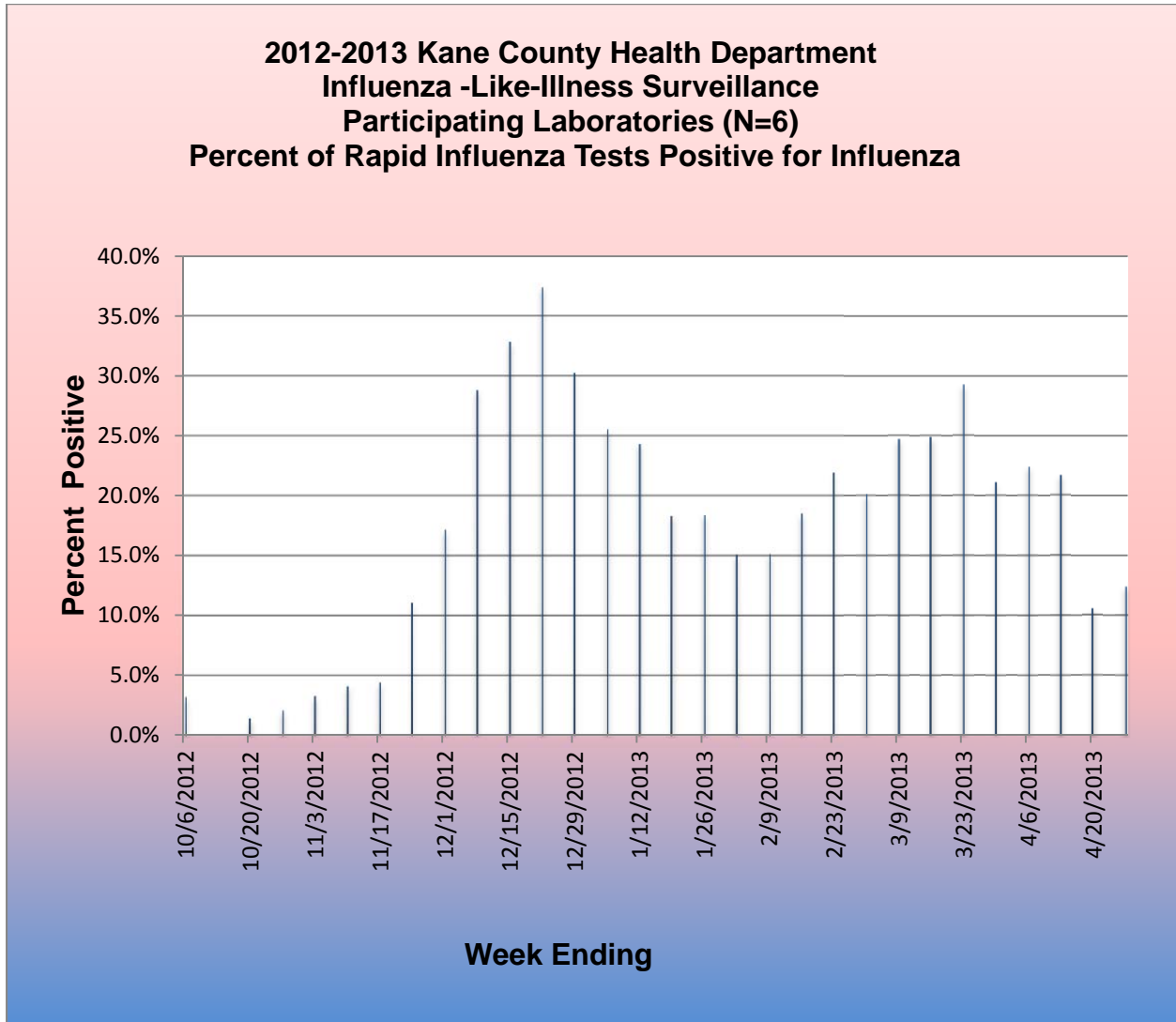
ICU Admissions Case Count		#
Total cases		23
Total deaths		0
Incidence by Age (years)		#
0 - 4 Years		2
5 - 24 Years		3
25 - 64 Years		5
65+ Years		13
Incidence by Region		#
North		6
Mid		4
South		12
Unk		1

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 12/22/2012. Overall, of the 13,282 tests done at the six labs in Kane County, 3,122 (23.51%) were positive for influenza. The maximum was 37.43% during the week ending 12/22/2012.



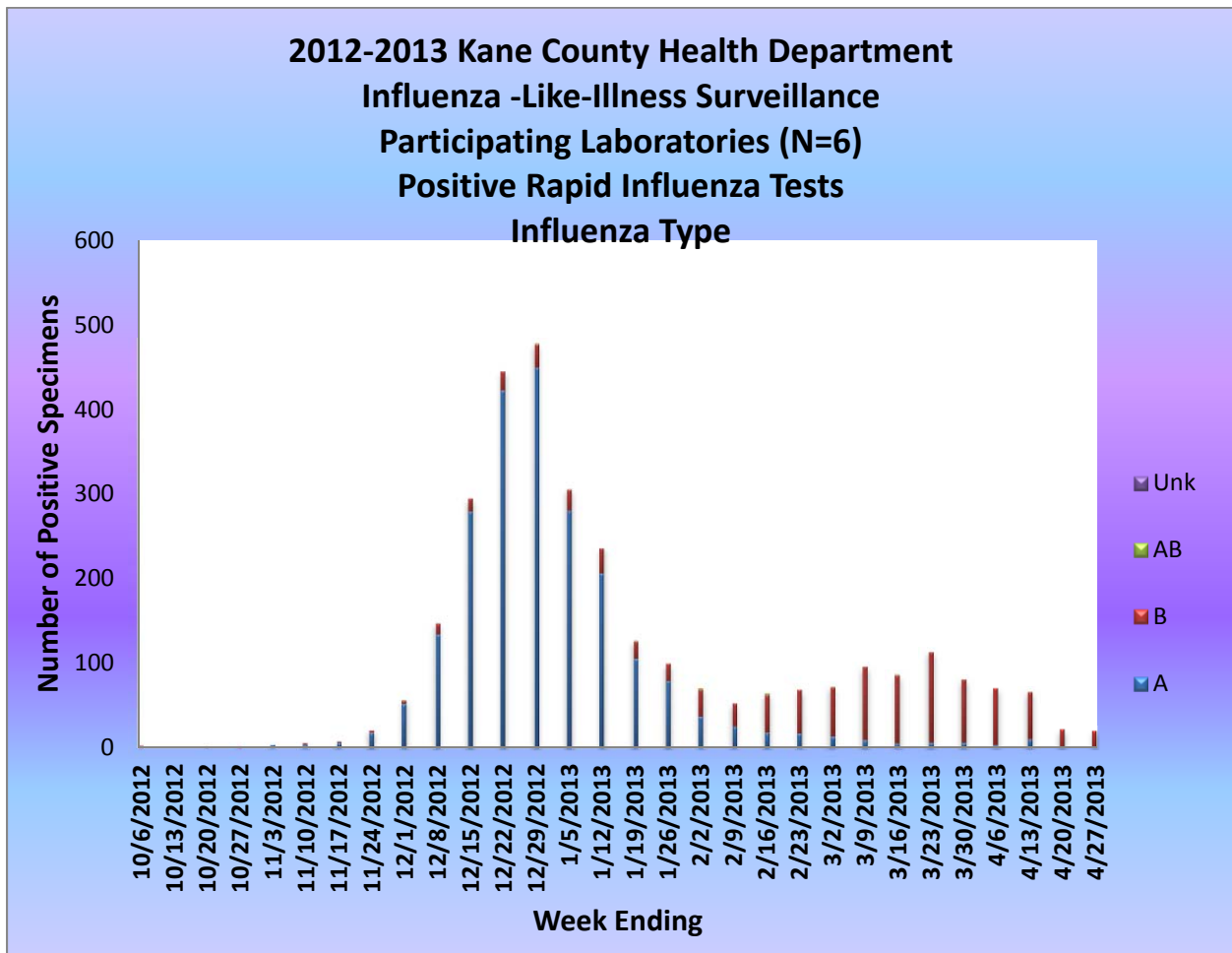
Of the 3,122 specimens tested positive during 2012-2013 influenza season, 2,190 (70.1%) were positive for Influenza type A, 920 (29.5%) were positive for influenza type B and 12 (0.4%) positive for Type AB.



**Laboratory Influenza Type Results
Kane County, 2012-2013 Influenza Season**

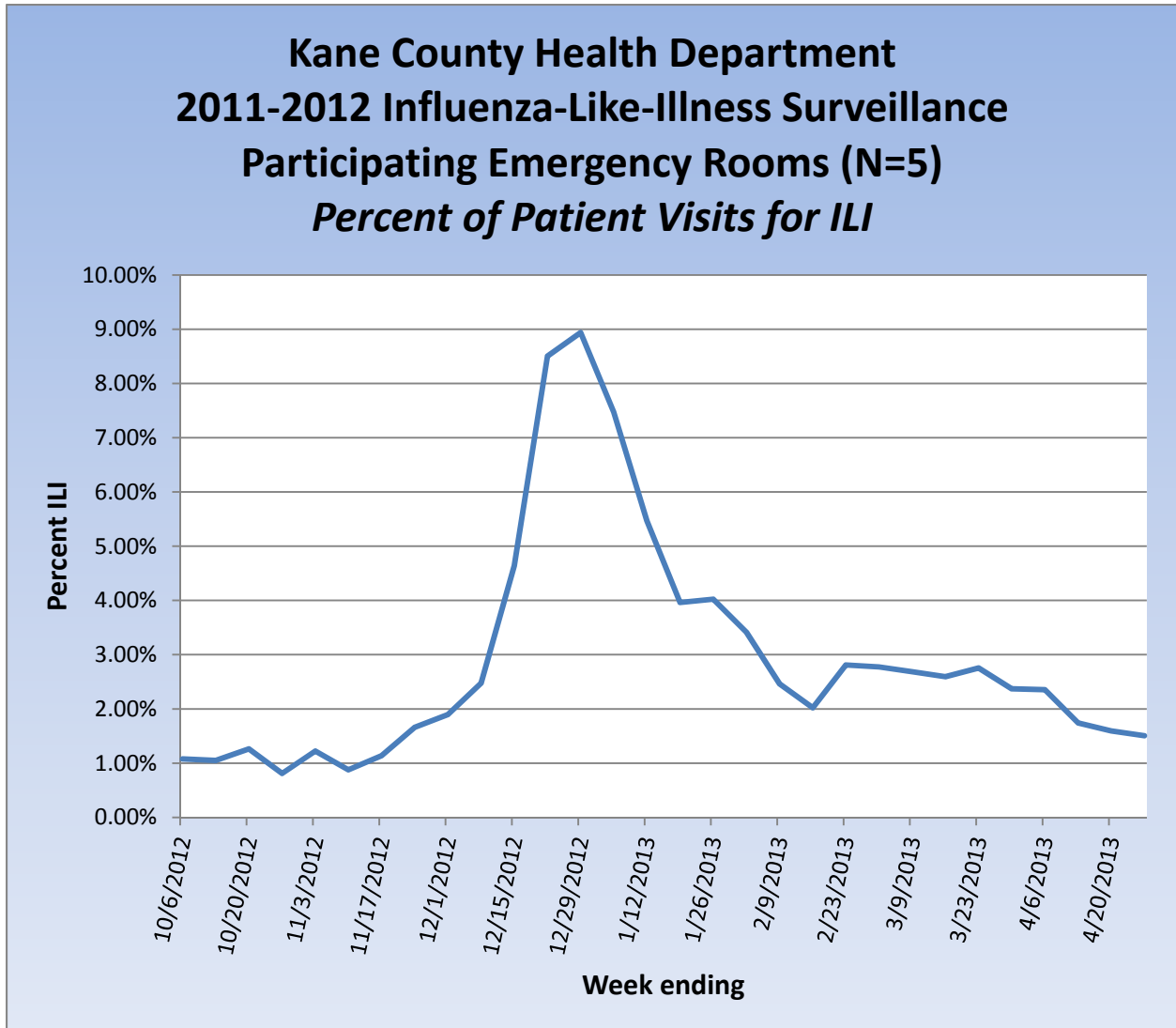
Kane County Labs (6)	2012-2013	
	Number	Percent
Specimens tested	13,282	
Specimens positive	3,122	23.5%
Positive specimens by type		
Influenza A	2,190	70.1%
Influenza B	920	29.5%
Influenza AB	12	0.4%
Influenza type unknown	0	0.0%

The number of positive specimens peaked during the week ending 12/29/12. 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 peak in the week ending 3/23/13.

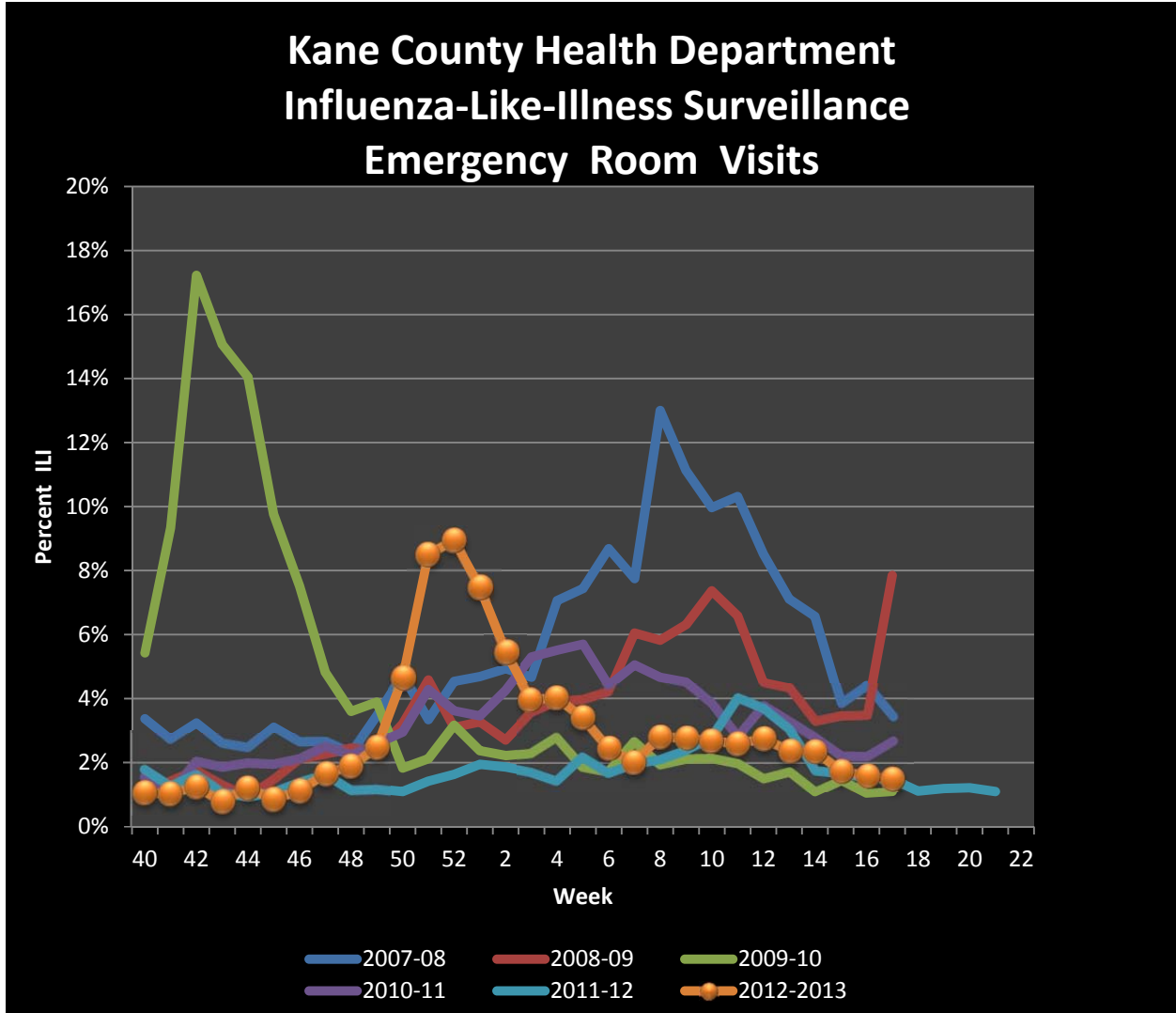


Influenza-Like Illness (ILI) Emergency Room Surveillance

The report indicates that influenza activity began to increase during the week of 2/15/2012. The peak percent of ILI visits to Emergency Rooms was during the week ending 12/29/2012. The magnitude of the peak was 8.94%. This was consistent with other indicators of high influenza activity during the same period.



Kane County Health Department ILI Surveillance data for the previous 5 flu seasons. This graph shows that the 2012-2013 influenza season had the highest peak in the last five years. The peak was in week 52 at 8.94%. This season's peak came earlier than the 2007-2008 flu outbreak peak but later than the H1N1 outbreak peak.



Long-Term Care Facilities (LTCF) Influenza Outbreaks

Long-Term Care Facilities reported outbreaks of influenza or ILI. There were a total of 11 outbreaks reported during the 2012/2013 influenza season.

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.