

Week 6: February 5-11, 2012

ILLINOIS DEPARTMENT OF PUBLIC HEALTH



# Illinois Influenza Surveillance Report

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Week 6: Week Ending Saturday, February 11, 2012

Division of Infectious Diseases Immunizations Section

2/17/2012

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## Summary

- During CDC Week 6, the proportion of outpatient visits for influenza-like illness (ILI)<sup>1</sup> was 3.1% compared with 2.3% for week 5.
- Based on CDC criteria, influenza activity is classified as **regional** (see CDC FLU View Section) for week 6. This represents no change in activity from week 5.
- During week 6, five of the nine specimens tested by Illinois Department of Public Health Laboratory were positive for influenza.
- There was one influenza-associated Intensive Care Unit (ICU) admission<sup>2</sup> reported for week 6.
- No influenza-associated pediatric deaths were reported for week 6.
- During week 6, two influenza outbreaks were reported in long-term care facilities.

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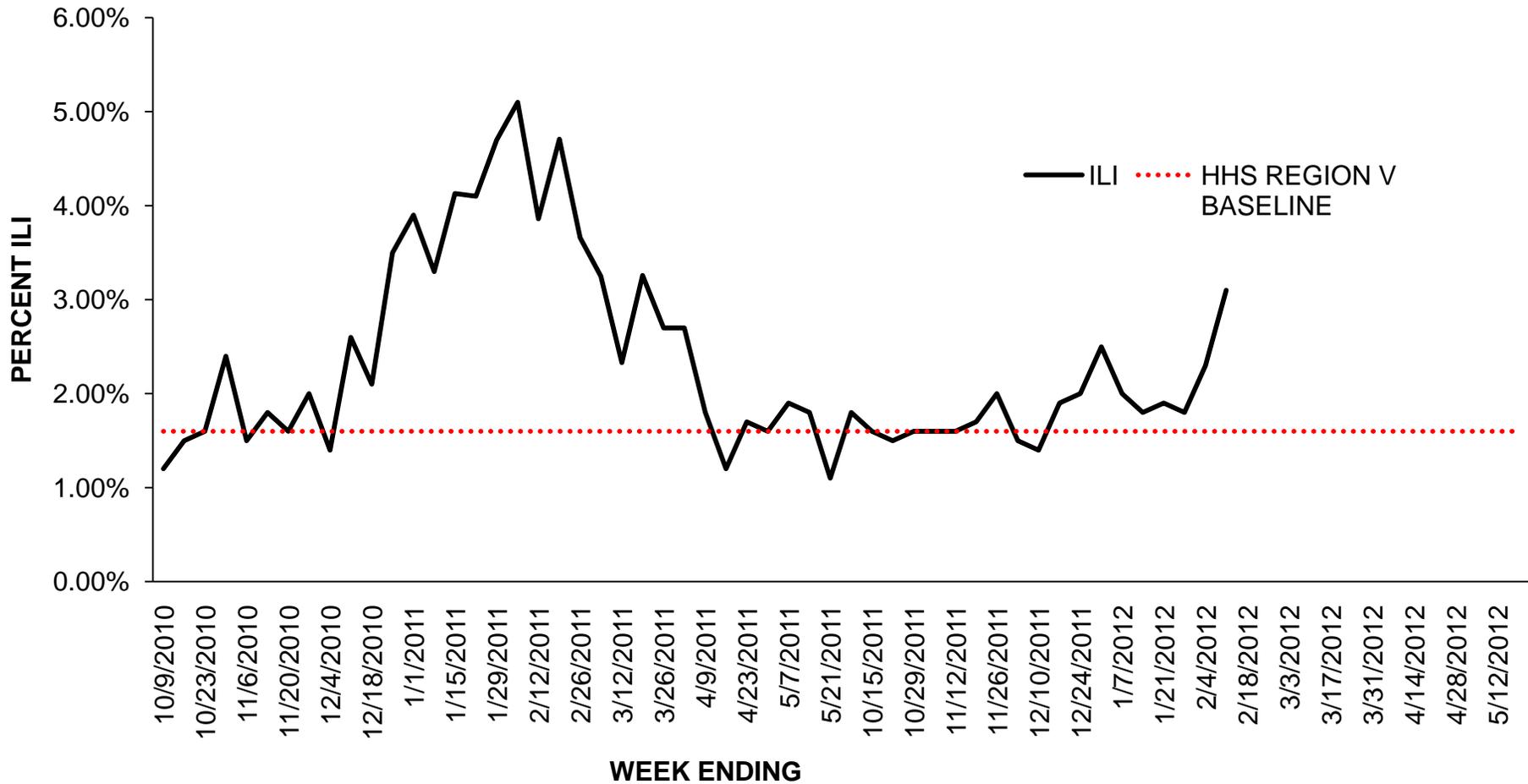
<sup>1</sup> ILI "Influenza like Illness" is defined as fever  $\geq 100^{\circ}\text{F}$  and cough and/or sore throat.

<sup>2</sup> For the purpose of diagnosis, influenza can be diagnosed by using the following test: reverse transcription polymerase chain reaction [RT-PCR], viral culture, Immunofluorescence [Direct Fluorescent Antibody (DFA) or Indirect Fluorescent Antibody (IFA) Staining], Enzyme Immuno Assay (EIA) or any rapid diagnostic test. Sensitivities of rapid diagnostic tests are approximately 50-70% when compared with viral culture or reverse transcription polymerase chain reaction (RT-PCR), and specificities of rapid diagnostic tests for influenza are approximately 90-95%. False-positive (and true-negative) results are more likely to occur when disease prevalence in the community is low, which is generally at the beginning and end of the influenza seasons. False-negative (and true-positive) results are more likely to occur when disease prevalence is high in the community, which is typically at the height of the influenza season.



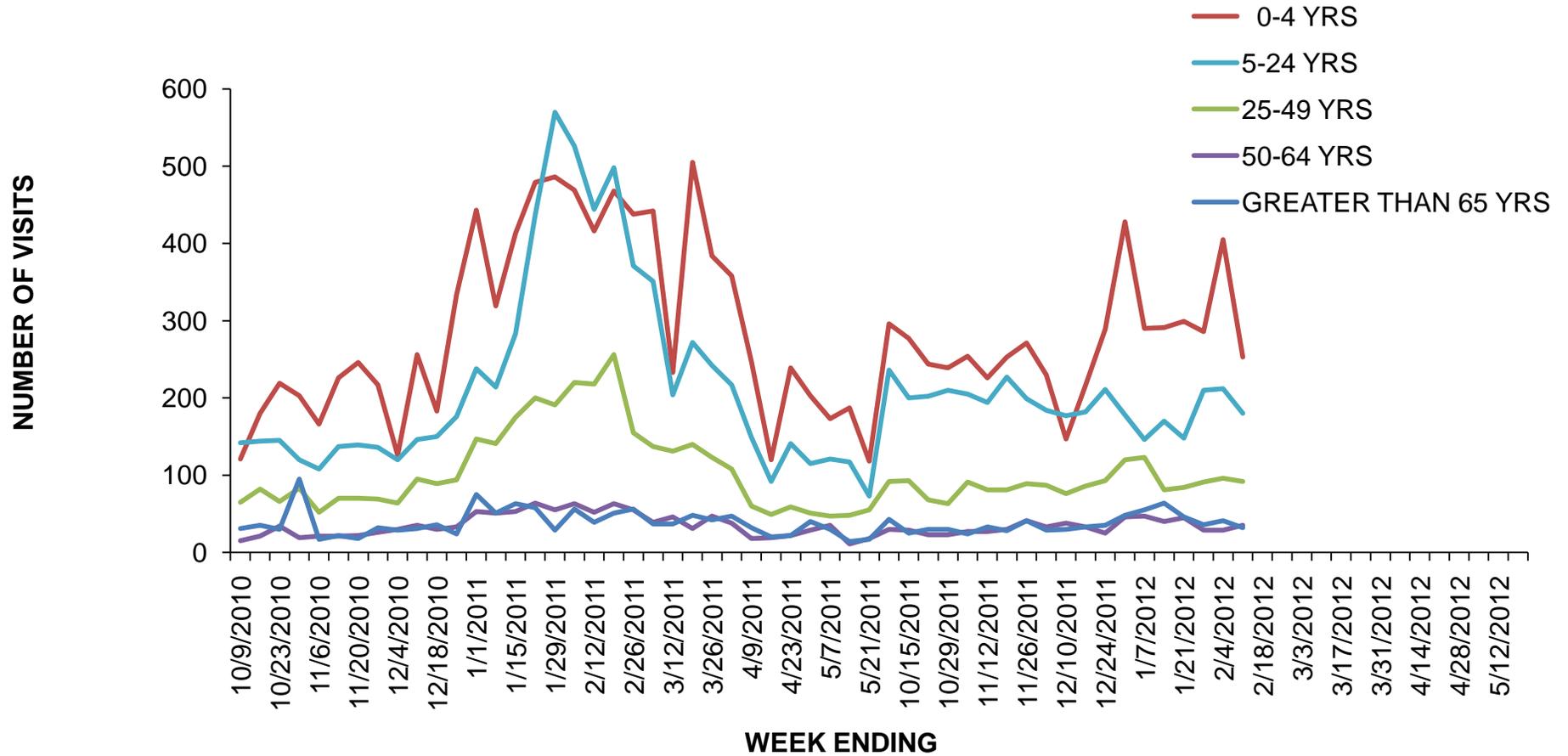
**ILI Net Provider Surveillance**

Influenza Like Illness Outpatient Surveillance 2010-2012



**ILI Visits by Age Group**

2010 -12 INFLUENZA SEASON PROPORTION OF ILI OFFICE VISITS BY AGE GROUP



### **Great Lakes Naval Recruit Influenza Surveillance**

Febrile Respiratory Illness (FRI) surveillance<sup>3</sup> at Naval Recruit Training Command, Great Lakes **at or below expected value** for week ending February 11, 2012. For more information visit <http://www.med.navy.mil/sites/nhrc/geis/Pages/default.aspx>

### **Influenza Intensive Care Unit Admissions and Deaths**

There was one influenza related ICU admissions and no deaths reported for week ending February 11, 2012.

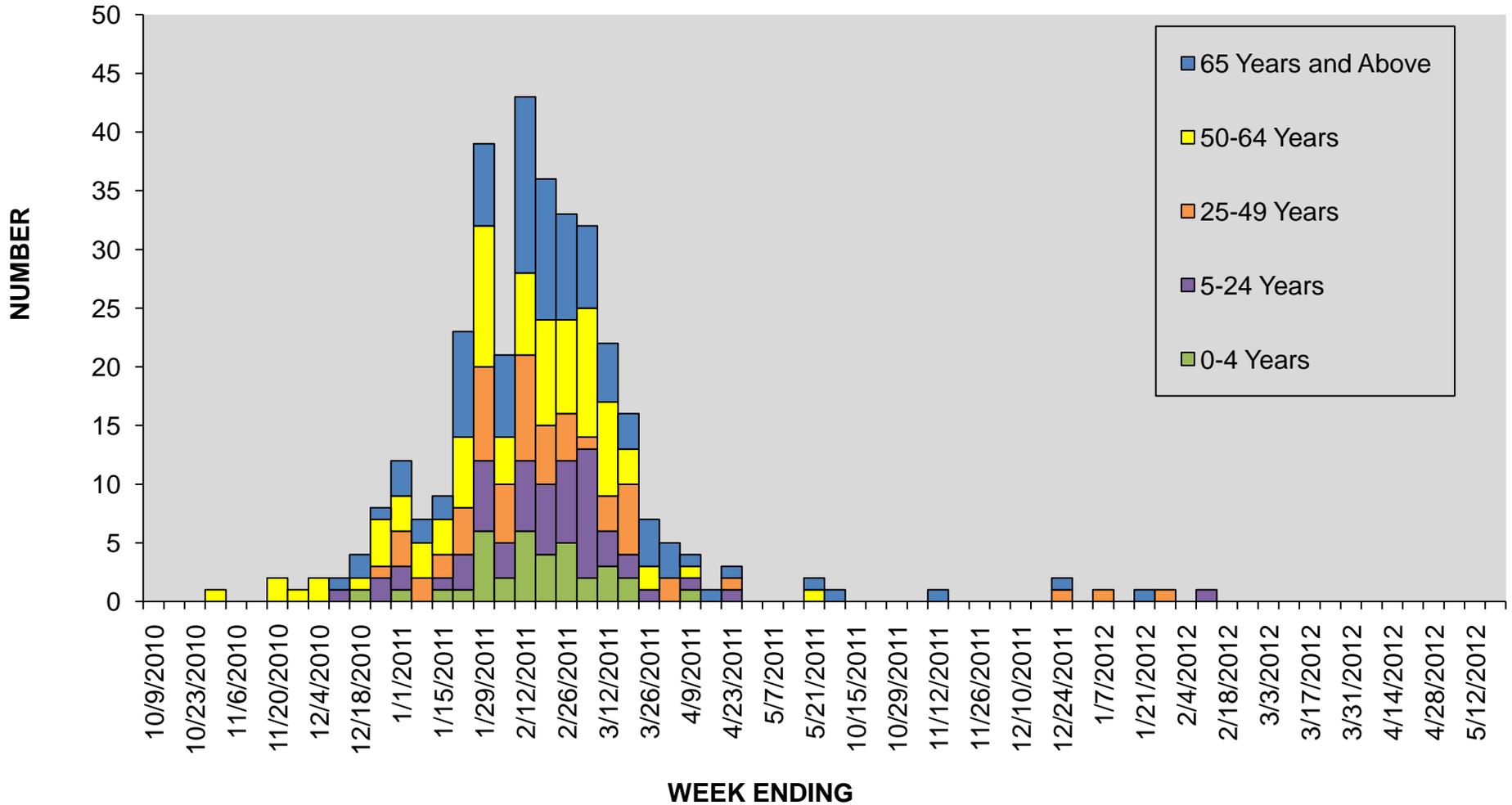
Week No	Admissions No	Deaths
3	1	0
4	1	0
5	0	0
6	1	0

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<sup>3</sup> FRI surveillance is ongoing at 8 U.S. military basic training centers, representing all service branches. FRI Rate Status is classified into one of 3 categories:

1. At or below expected value (expected value shown as dashed line)
2. Moderately elevated
3. Substantially elevated

**Influenza Related ICU Admissions by Age Group**



**Laboratory Surveillance**

During week 6, nine specimens were tested by Illinois WHO/NREVSS<sup>[1]</sup> collaborating laboratories in Illinois. This represents an increase in testing compared with week 5. Of the nine specimens tested, five tested positive for influenza during week 6.

Week	No of Labs Reporting	A (H1)	2009(A)H1N1	A (H3)	A(Unable to subtype)	A(Sub typing not performed)	B	Total # Tested	% Positive
3	1	0	1	3	0	1	1	10	60%
4	1	0	0	2	0	0	0	4	50%
5	1	0	0	0	0	0	0	0	0%
6	1	0	3	1	0	0	1	9	56%

<sup>[1]</sup> WHO/NREVSS Collaborating Laboratories WHO/NREVSS Collaborating Laboratories: For viral surveillance - About 80 U.S. World Health Organization (WHO) Collaborating Laboratories and 70 National Respiratory and Enteric Virus Surveillance System (NREVSS), located throughout the United States report daily or weekly the results of their testing.

**Viral Resistance**

**Neuraminidase Inhibitor Resistance Testing Results on Samples Collected Since October 1, 2011**

	Oseltamivir		Zanamivir	
	Virus Samples tested (n)	Resistant Viruses, Number (%)	Virus Samples tested (n)	Resistant Viruses, Number (%)
<b>Influenza A (H3N2)</b>	309	0 (0.0)	309	0 (0.0)
<b>Influenza B</b>	46	0 (0.0)	46	0 (0.0)
<b>Influenza A (2009 H1N1)</b>	71	0 (0.0)	61	0 (0.0)

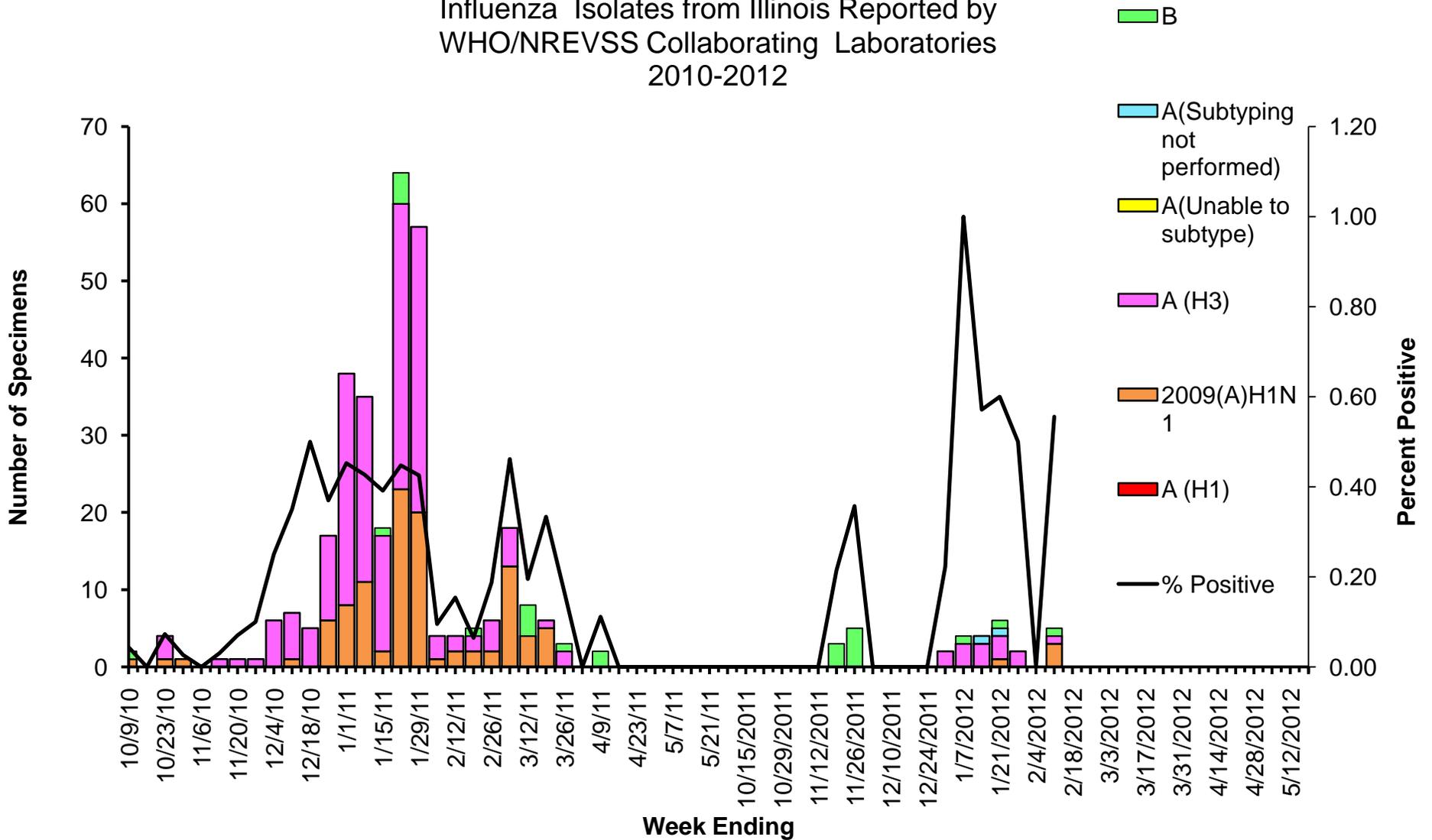
All viruses tested for the 2011-2012 season since October 1, 2011 have been susceptible to the neuraminidase inhibitor antiviral medications oseltamivir and zanamivir as were the majority of viruses tested last season; however, rare sporadic cases of oseltamivir resistant 2009 influenza A (H1N1) and A (H3N2) viruses have been detected worldwide. Antiviral treatment with oseltamivir or zanamivir is recommended as early as possible for patients with confirmed or suspected influenza who have severe, complicated, or progressive illness; who require hospitalization; or who are at greater risk for influenza-related complications. Additional information on recommendations for treatment and chemoprophylaxis of influenza virus infection with antiviral agents is available at <http://www.cdc.gov/flu/antivirals/index.htm>.

**Influenza Outbreaks Reported in Long-Term Facilities and Nursing Homes**

There were two outbreaks reported for week 6.

**Weekly Viral Subtype**

Influenza Isolates from Illinois Reported by WHO/NREVSS Collaborating Laboratories 2010-2012



## **Resources**

- Centers for Disease Control and Prevention Influenza Website: <http://www.cdc.gov/flu/>
- Immunization Action Coalition Website: <http://immunize.org/>
- IDPH Website: <http://www.idph.state.il.us/flu/surveillance.htm>
- ACL Clinical Laboratory Respiratory Panel: <http://www.acllaboratories.com/>
- St Louis Children's Hospital Clinical Laboratory Respiratory Panel:  
<http://www.stlouischildrens.org/content/ClinicalLaboratories.htm>