

Week 51: December 19 – December 25, 2010

ILLINOIS DEPARTMENT OF PUBLIC HEALTH



Illinois Influenza Surveillance Report

Week 51: Week Ending Saturday, December 25, 2010

Division of Infectious Diseases Immunizations Section

12/30/2010

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Summary

- During CDC Week 51, the proportion of outpatient visits for influenza-like illness (ILI)¹ was 3.5%.
- The risk of illness due to influenza viruses is low. Numerous respiratory viruses can cause ILI, and these viruses are now more prevalent than influenza viruses.ⁱ
- Based on CDC criteria; influenza activity is classified as **Local** (see CDC FLU View Section).
- Febrile Respiratory Illness at Great Lake Naval Academy was **not reported for week 51**.
- During week 51, seventeen (37%) of the specimens tested by Illinois Department of Public Health laboratory tested positive for influenza. Eleven of the isolates were influenza A human (H3) subtype and six were 2009 Influenza A H1N1.
- No influenza-associated pediatric deaths were reported during week 51.
- Nine influenza related ICU admissions and no deaths were reported during week 51.

¹ ILI "Influenza like Illness" is defined as fever \geq 100°F and cough and/or sore throat.

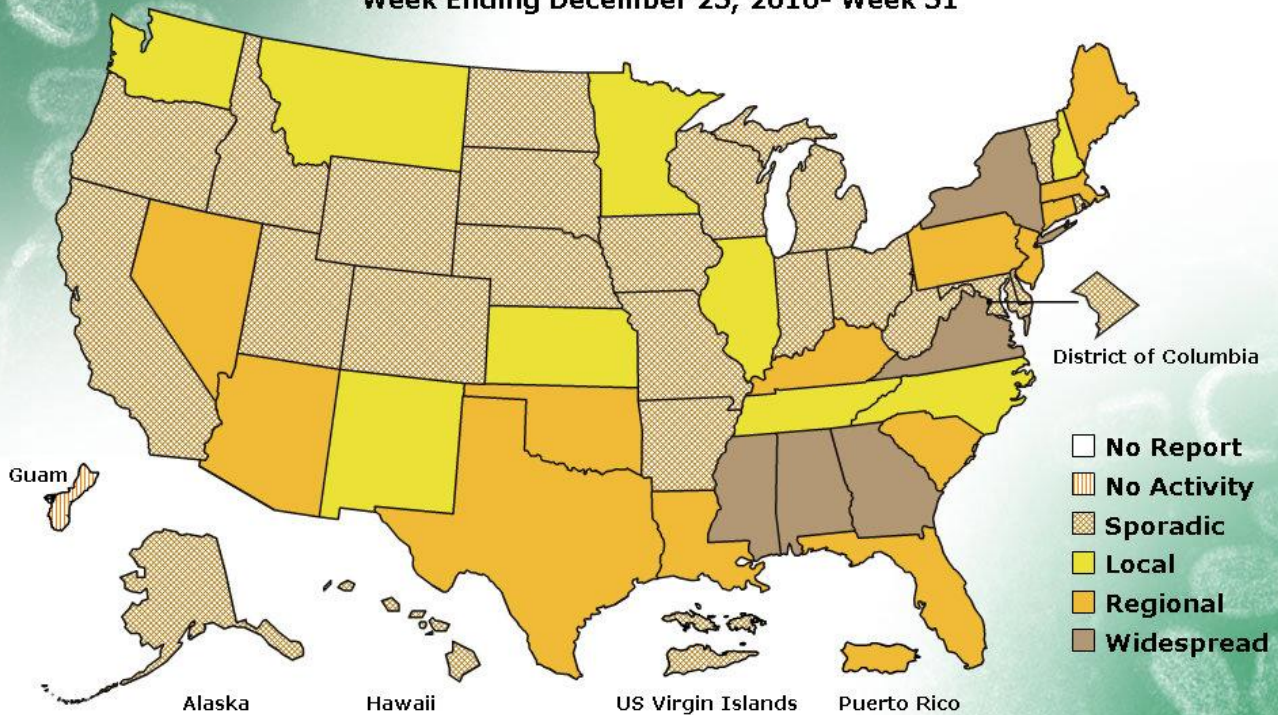
CDC Flu View

FLUVIEW



A Weekly Influenza Surveillance Report Prepared by the Influenza Division
Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending December 25, 2010- Week 51



*This map indicates geographic spread and does not measure the severity of influenza activity.

No activity: No laboratory confirmed cases of influenza and no reported increase in cases of influenza like illness (ILI).

Sporadic: Small numbers of laboratory confirmed influenza cases or a single laboratory confirmed influenza in a single region of the state.

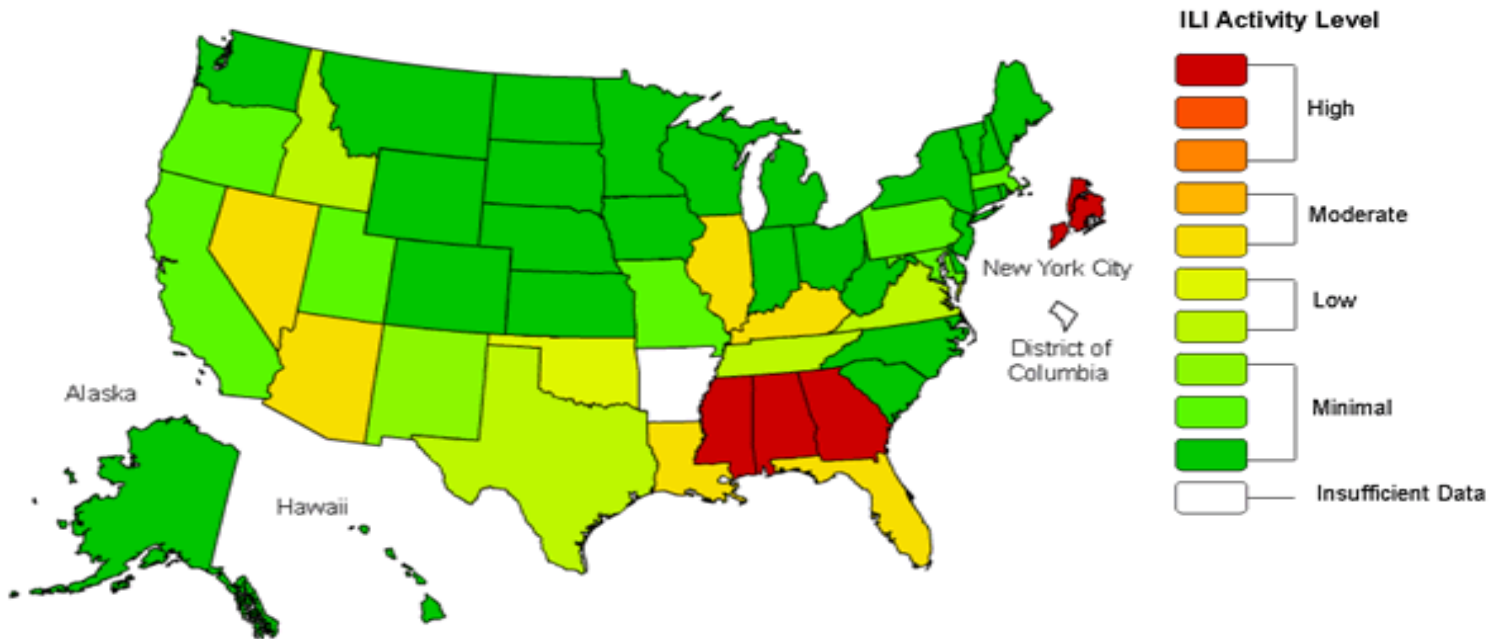
Local: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in a single region of the state.

Regional: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state.

Widespread: Outbreaks of influenza or increases in ILI cases and recent laboratory confirmed influenza in at least half the regions in the state.

ILI Intensity

Influenza-Like Illness (ILI) Activity Level Indicator Determined by Data Reported to ILINet 2010-11 Influenza Season Week 51 ending Dec 25, 2010



*This map uses the proportion of outpatient visits to health care providers for influenza-like illness to measure the ILI activity level within a state. It does not, however, measure the extent of geographic spread of flu within a state. Therefore, outbreaks occurring in a single city could cause the state to display high activity levels.

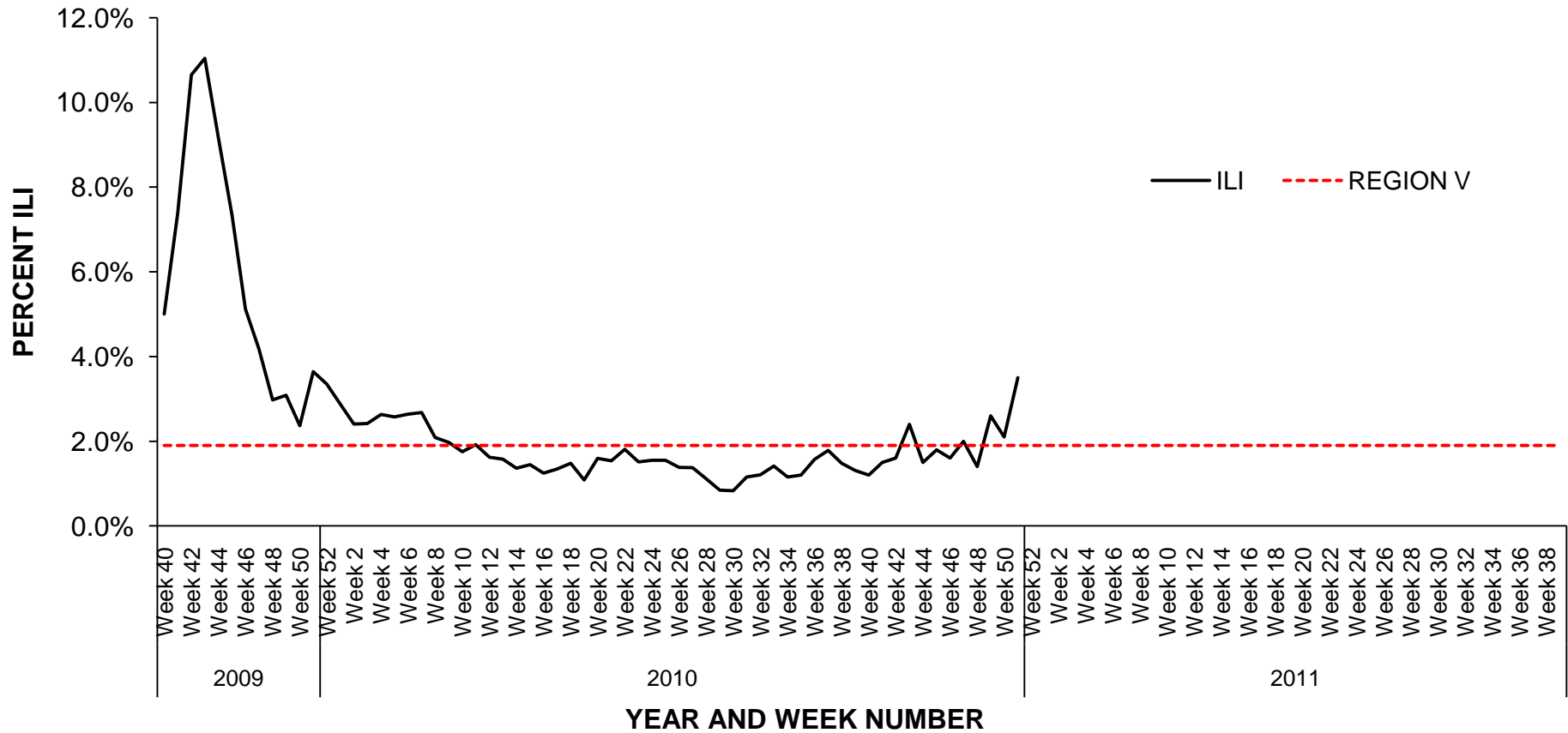
Data collected in ILINet may disproportionately represent certain populations within a state, and therefore, may not accurately depict the full picture of influenza activity for the whole state.

Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.

Differences in the data presented by CDC and state health departments likely represent differing levels of data completeness with data presented by the state likely being the more complete .

ILI Net Provider Surveillance

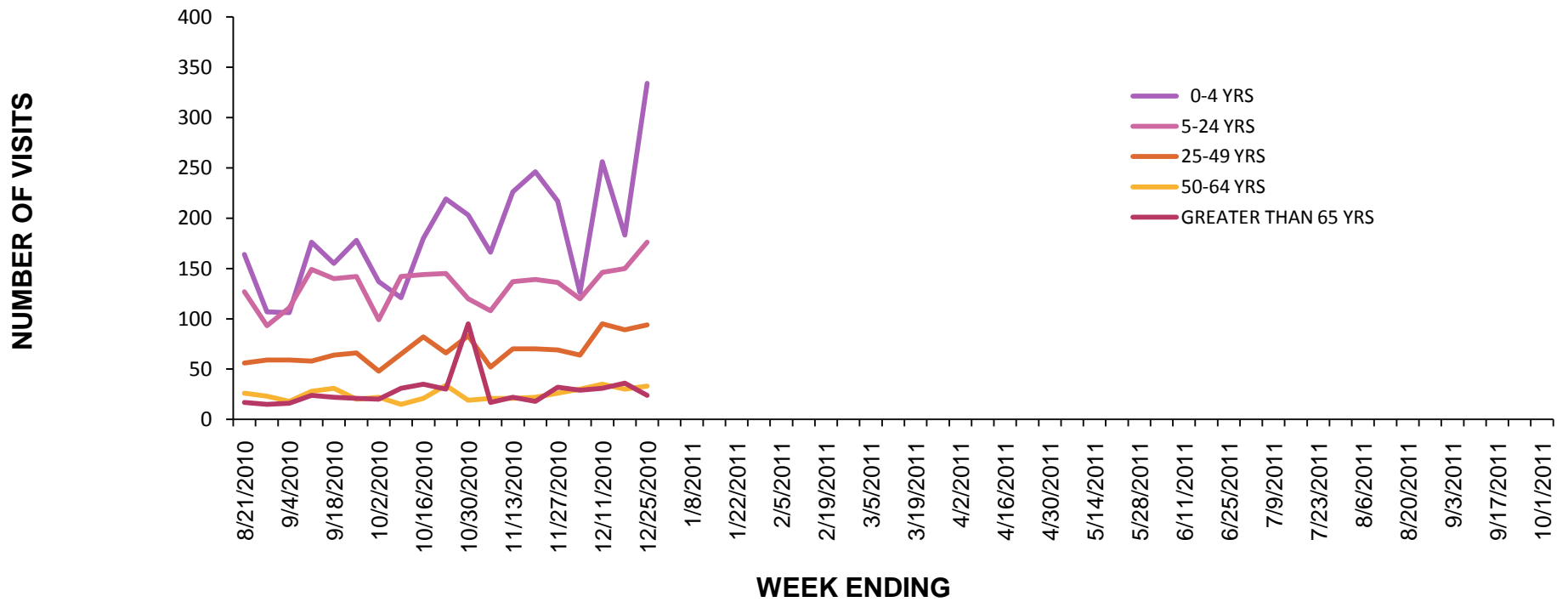
Influenza Like Illness Outpatient Surveillance 2009-2011



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ILI Visits by Age Group

**2010 -11 INFLUENZA SEASON PROPORTION OF ILI OFFICE VISITS
BY AGE GROUP**



Great Lakes Naval Recruit Influenza Surveillance

There will be no report for FRI surveillance² at Naval Recruit Training Command, Great Lakes this week. For information on previous weeks, visit <http://www.med.navy.mil/sites/nhrc/geis/Pages/default.aspx>

Influenza Intensive Care Unit Admissions and Deaths

There were nine Influenza related ICU admissions and no deaths week ending December 25, 2010.

Laboratory Surveillance

During week 51, seventeen of the specimens tested by Illinois WHO/NREVSS³ collaborating laboratories in Illinois tested positive for influenza. Eleven (65%) of the specimens were influenza A human H3 subtype and six (35%) were 2009 influenza A H1N1.

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
48	1	0	0	6	0	0	0	24	25
49	1	0	1	6	0	0	0	20	35
50	1	0	0	5	0	0	0	10	50
51	1	0	6	11	0	0	0	46	37

² 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

³ 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

High levels of resistance to the adamantanes (amantadine and rimantadine) persist among 2009 influenza A (H1N1) and A (H3N2) viruses (the adamantanes are not effective against influenza B viruses) circulating globally. As a result of the sustained high levels of resistance, data from adamantane resistance testing are not presented weekly in the table below.

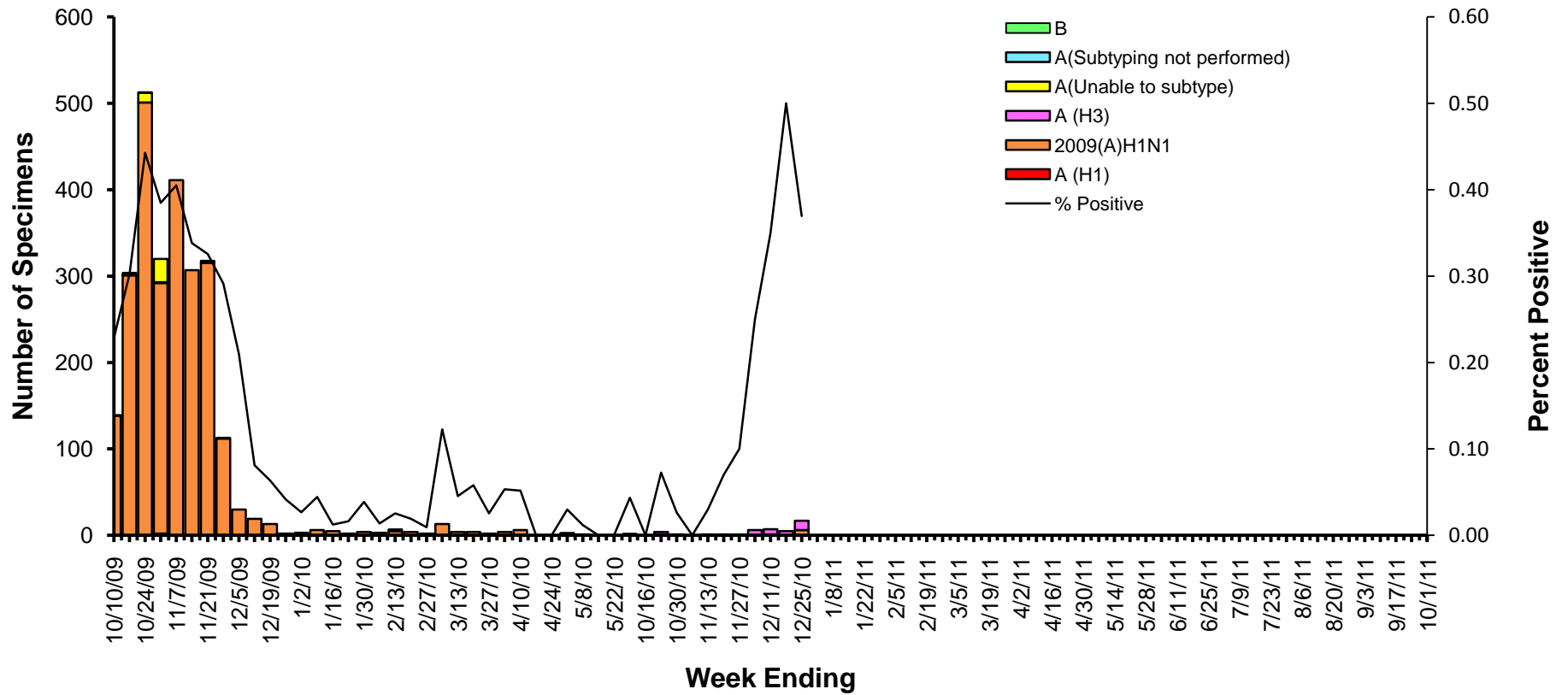
	Samples tested (n)	Resistant Viruses, Number (%)	Samples tested (n)	Resistant Viruses, Number (%)
		Oseltamivir		Zanamivir
Seasonal Influenza A (H1N1)	0	0 (0.0)	0	0 (0.0)
Influenza A (H3N2)	33	0 (0.0)	33	0 (0.0)
Influenza B	54	0 (0.0)	54	0 (0.0)
2009 Influenza A (H1N1)	17	0 (0.0)	15	0 (0.0)

To prevent the spread of antiviral resistant virus strains, CDC reminds clinicians and the public of the need to continue hand and cough hygiene measures for the duration of any symptoms of influenza, even while taking antiviral medications. Additional information on antiviral recommendations for treatment and chemoprophylaxis of influenza virus infection is available at <http://www.cdc.gov/flu/antivirals/index>

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Weekly Viral Subtype

**Influenza Isolates from Illinois Reported by
WHO/NREVSS Collaborating Laboratories
2009-11 Season**



Resources

- Centers for Disease Control and Prevention Influenza Website:
<http://www.cdc.gov/flu/weekly/fluactivity.htm>
- 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>

¹ For more information regarding circulating respiratory viruses, see

a. <http://www.cdc.gov/surveillance/nrevss/rsv/state.html>

b. <http://www.acllaboratories.com/>

c. www.stlouischildrens.org/content/ClinicalLaboratories.htm