

Week 44: October 30-November 5, 2011

ILLINOIS DEPARTMENT OF PUBLIC HEALTH



Illinois Influenza Surveillance Report

Week 44: Week Ending Saturday, November 5, 2011

Division of Infectious Diseases Immunizations Section

11/10/2011

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Summary

- During CDC Week 44, the proportion of outpatient visits for influenza-like illness (ILI)¹ was 1.7% compared with 1.5% for week 43.
- 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 **no activity** (see CDC FLU View Section) for week 44. This represents no change from the previous week.
- Febrile Respiratory Illness (FRI) surveillance² at Naval Recruit Training Command, Great Lakes for week 44 is **moderately elevated**.
- During week 44, none of the specimens tested by Illinois Department of Public Health Laboratory were positive for influenza A or B.
- No influenza-associated Intensive Care Unit (ICU) admissions were reported for week 44.
- No influenza-associated pediatric deaths were reported for week 44.

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

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

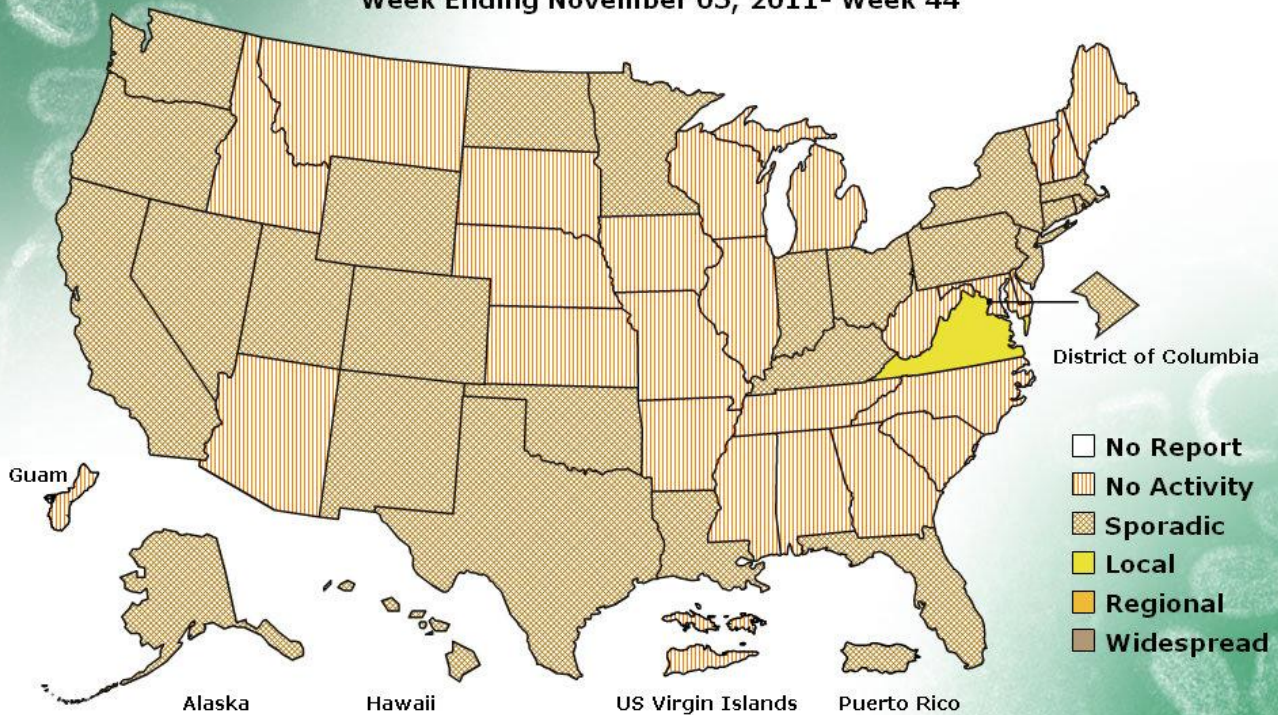
CDC Flu View

FLUVIEW



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

Week Ending November 05, 2011- Week 44



*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.

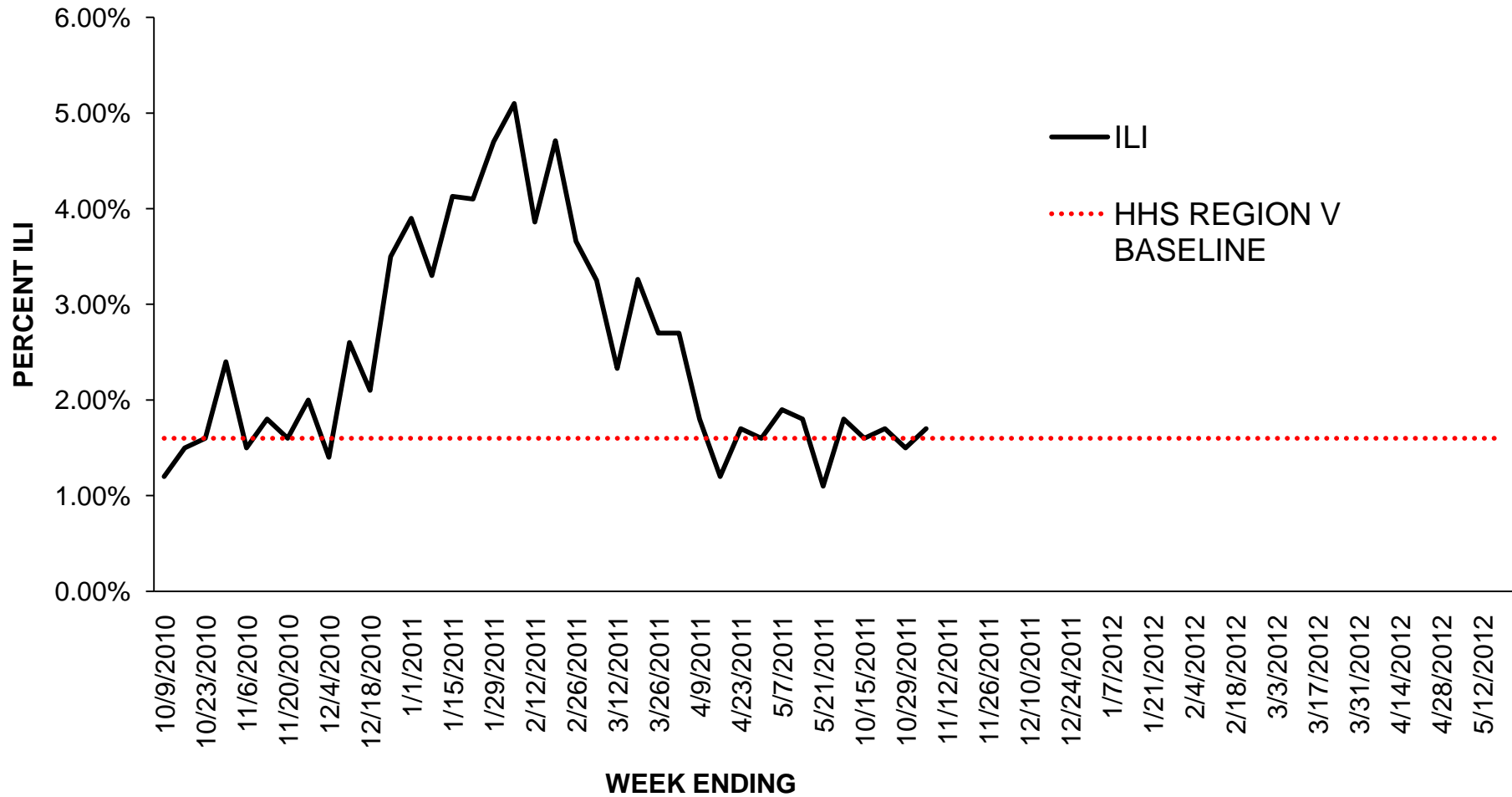
Regional: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in at least two but less than half the regions of the state.

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

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ILI Net Provider Surveillance

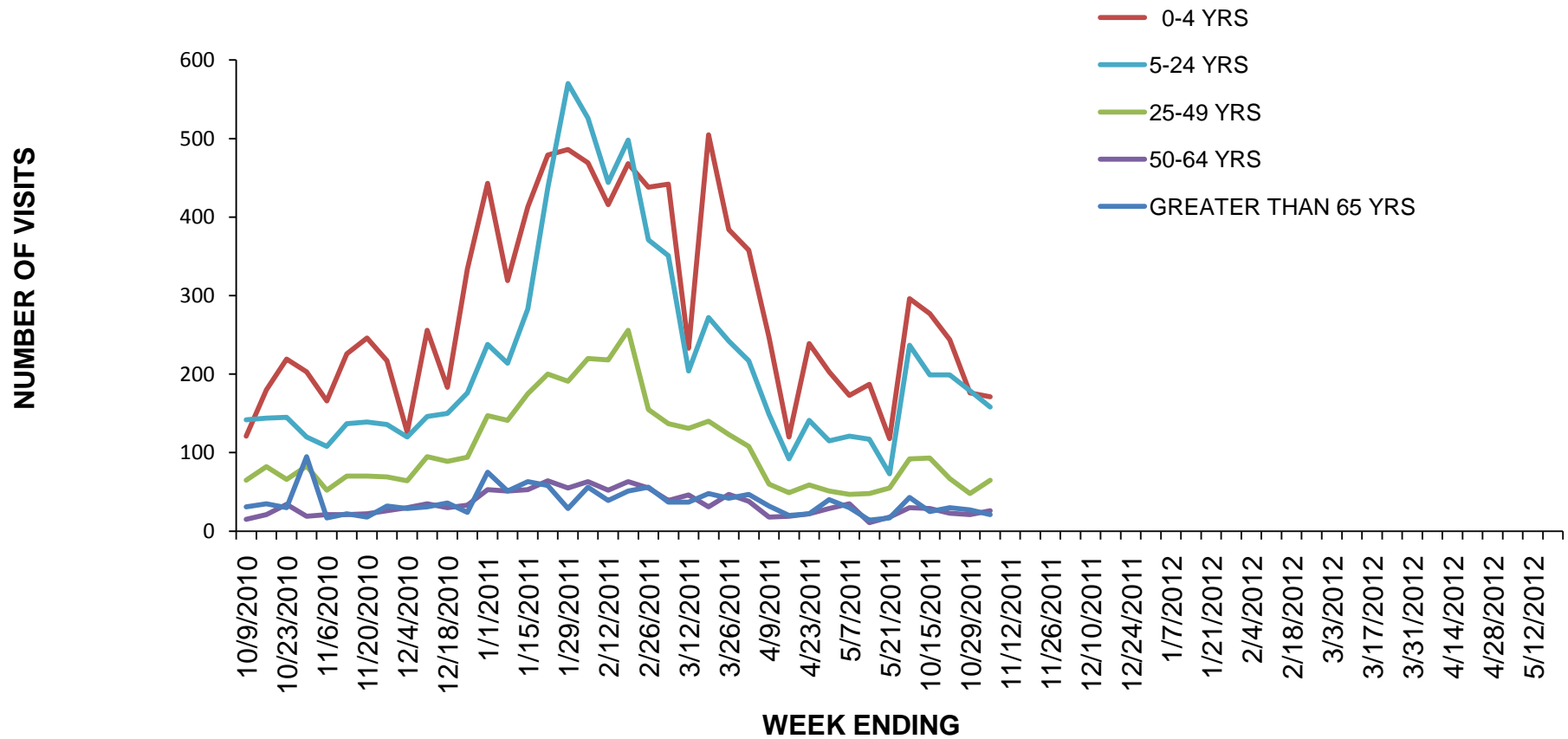
Influenza Like Illness Outpatient Surveillance 2010-2012



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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) surveillance³ at Naval Recruit Training Command, Great Lakes **moderately elevated** for week ending November 5, 2011. For more information visit <http://www.med.navy.mil/sites/nhrc/geis/Pages/default.aspx>

Influenza Intensive Care Unit Admissions and Deaths

There were no influenza related ICU admission or deaths for week ending November 5, 2011.

Week No	Admissions No	Deaths
41	0	0
42	0	0
43	0	0
44	0	0

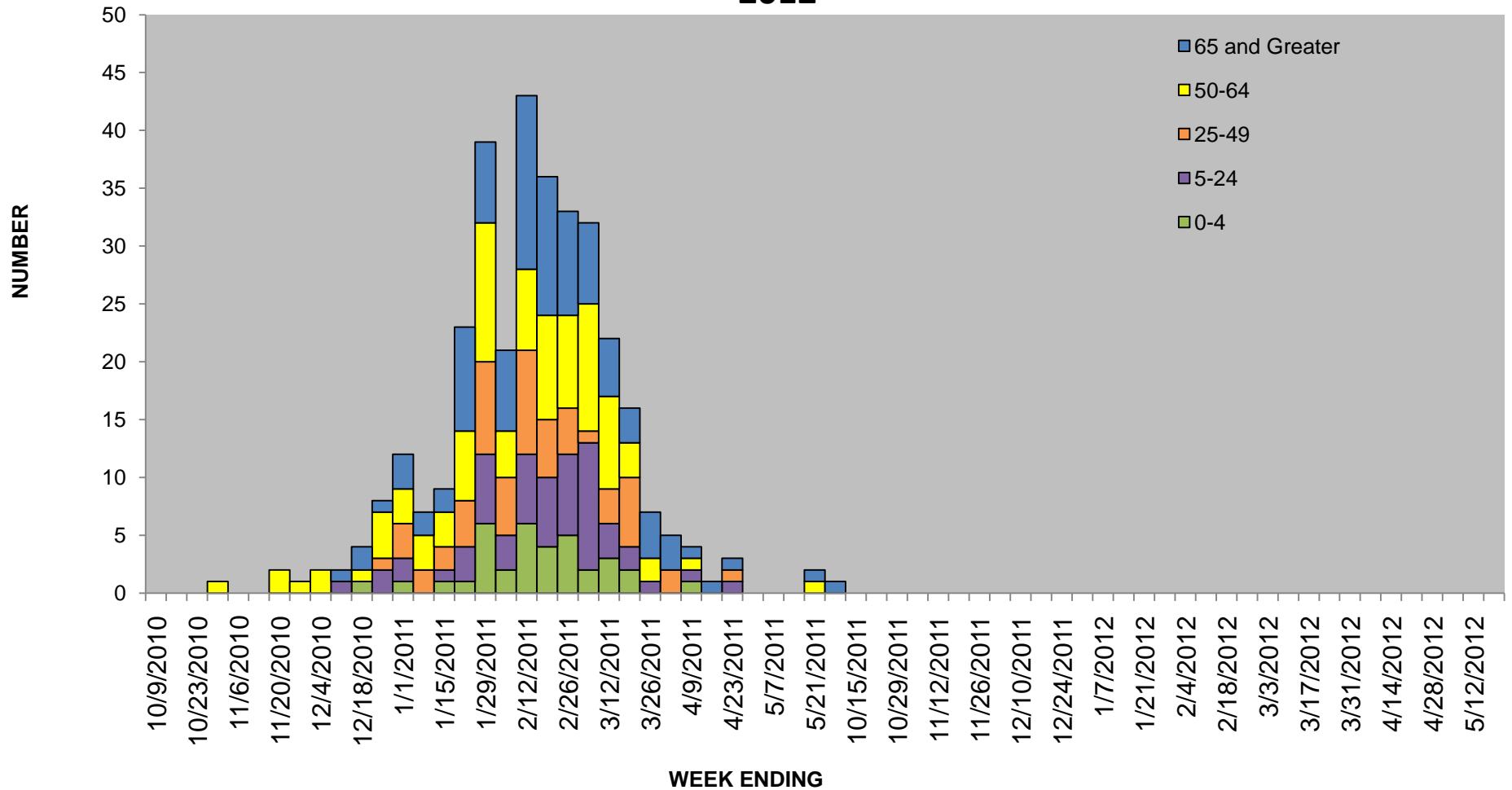
³ FRI surveillance is ongoing at 8 U.S. military basic training centers, representing all service branches. FRI Rate Status is classified into one of 3 categories:

4. At or below expected value (expected value shown as dashed line)
5. Moderately elevated
6. Substantially elevated

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Influenza Related ICU Admissions by Age Group

Influenza-Associated Intensive Care Unit Admissions by Age Group 2010-2012



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Laboratory Surveillance

During week 44, five specimens were tested by Illinois WHO/NREVSS⁴ collaborating laboratories in Illinois. This represents a slight decrease in testing from last week when eight specimens were collected and tested. There has been no specimen which tested positive for influenza thus far this season.

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
41	1	0	0	0	0	0	0	0	0
42	1	0	0	0	0	0	0	10	0
43	1	0	0	0	0	0	0	8	0
44	1	0	0	0	0	0	0	5	0

⁴ 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 (%)
Influenza A (H3N2)	5	0 (0.0)	5	0 (0.0)
Influenza B	1	0 (0.0)	1	0 (0.0)
Influenza A (2009 H1N1)	0	0 (0.0)	0	0 (0.0)

The majority of currently circulating influenza viruses are susceptible to the neuraminidase inhibitor antiviral medications oseltamivir and zanamivir; 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>.

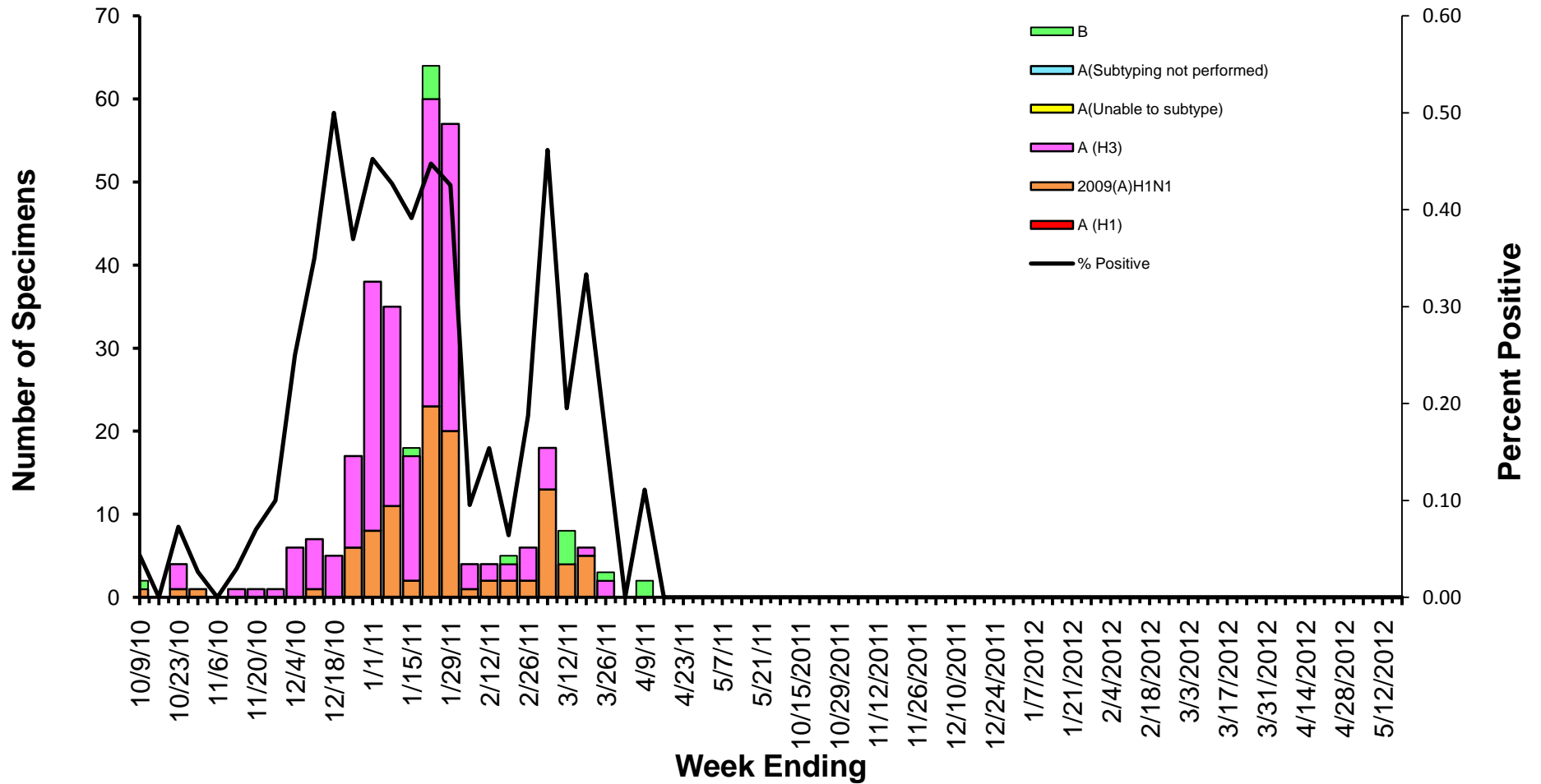
Influenza Outbreaks Reported in Long-Term Facilities and Nursing Homes

There were no outbreaks reported in long-term care facilities for week 44.

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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/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/admin/upload-area/files/2010%20Infectious%20Disease/1%20RVP%20Jun27%20-%20Oct%2016.pdf>
- St Louis Children's Hospital Clinical Laboratory Respiratory Panel
<http://www.stlouischildrens.org/content/ClinicalLaboratories.htm>

ⁱ 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