

Week 11: March 13 – March 19, 2011

ILLINOIS DEPARTMENT OF PUBLIC HEALTH



Illinois Influenza Surveillance Report

Week 11: Week Ending Saturday, March 19, 2011

Division of Infectious Diseases Immunizations Section

3/24/2011

Contents

Summary3

CDC Flu View4

ILI Intensity.....5

ILI Net Provider Surveillance6

ILI Visits by Age Group7

Great Lakes Naval Recruit Influenza Surveillance8

Influenza Intensive Care Unit Admissions and Deaths8

Laboratory Surveillance8

Viral Resistance9

Weekly Viral Subtype10

Resources11

Summary

- During CDC Week 11, the overall proportion of outpatient visits for influenza-like illness (ILI)¹ was 3.3%, compared with 2.3% for week 10. The intensity of ILI activity in Illinois was minimal for week 11.
- Based on CDC criteria, influenza activity is geographically **Local** (see CDC FLU View Section).
- Febrile Respiratory Illness at Great Lake Naval Academy was **at or below expected value for week 11**.
- Individuals aged 0 to 4 years had the highest proportion of office visits related to ILI for week 11. The proportion of 0-4 years accounted for 51% of total ILI visits compared with 35% for week 10.
- During week 11, six (33%) of the specimens tested by Illinois Department of Public Health laboratory tested positive for influenza. Of the positive specimens, 5 (83%) were 2009 influenza A H1N1 and 1 (17%) was influenza A human (H3) subtype.
- One influenza-associated pediatric death was reported to IDPH during week 11.
- Thirteen influenza-related ICU admissions and two influenza-related ICU deaths were reported to IDPH during week 11.
- Four outbreaks due to influenza were reported from long-term care facilities during week 11.

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

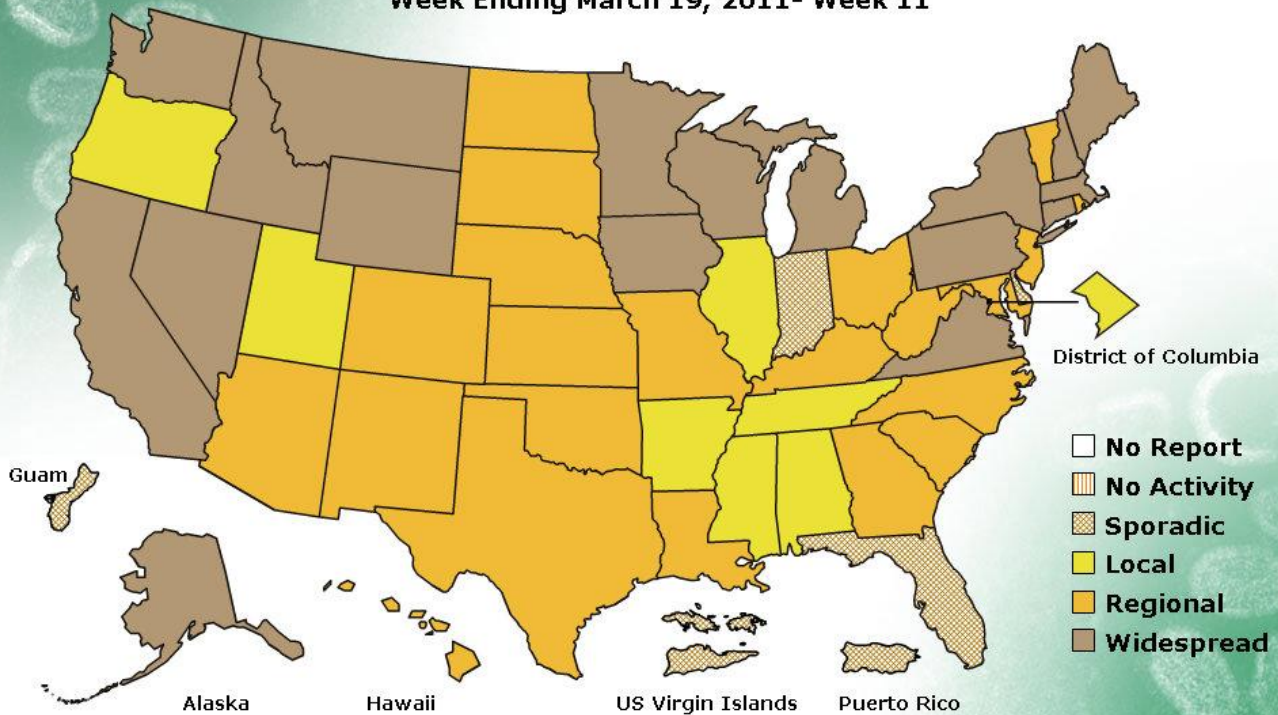
CDC Flu View

FLUVIEW



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

Week Ending March 19, 2011- Week 11



*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.

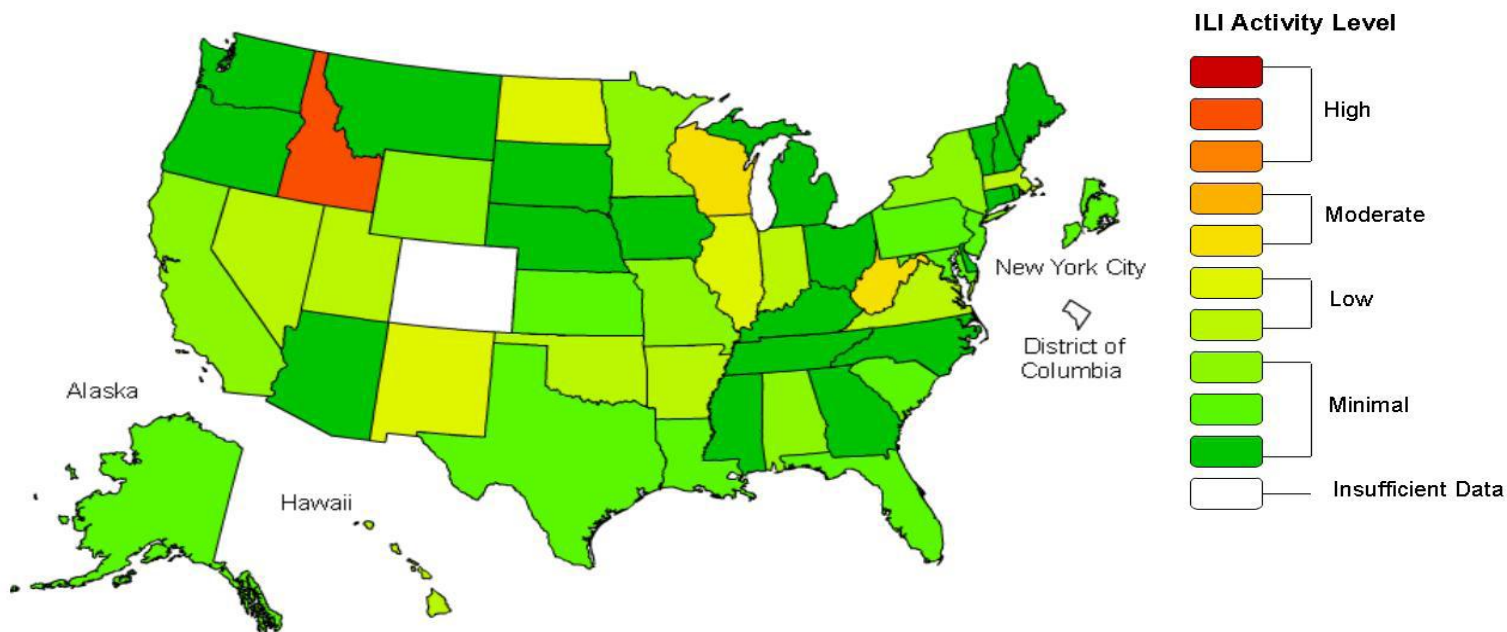
Local: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in a single region of the state.

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 11 ending Mar 19, 2011



*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.

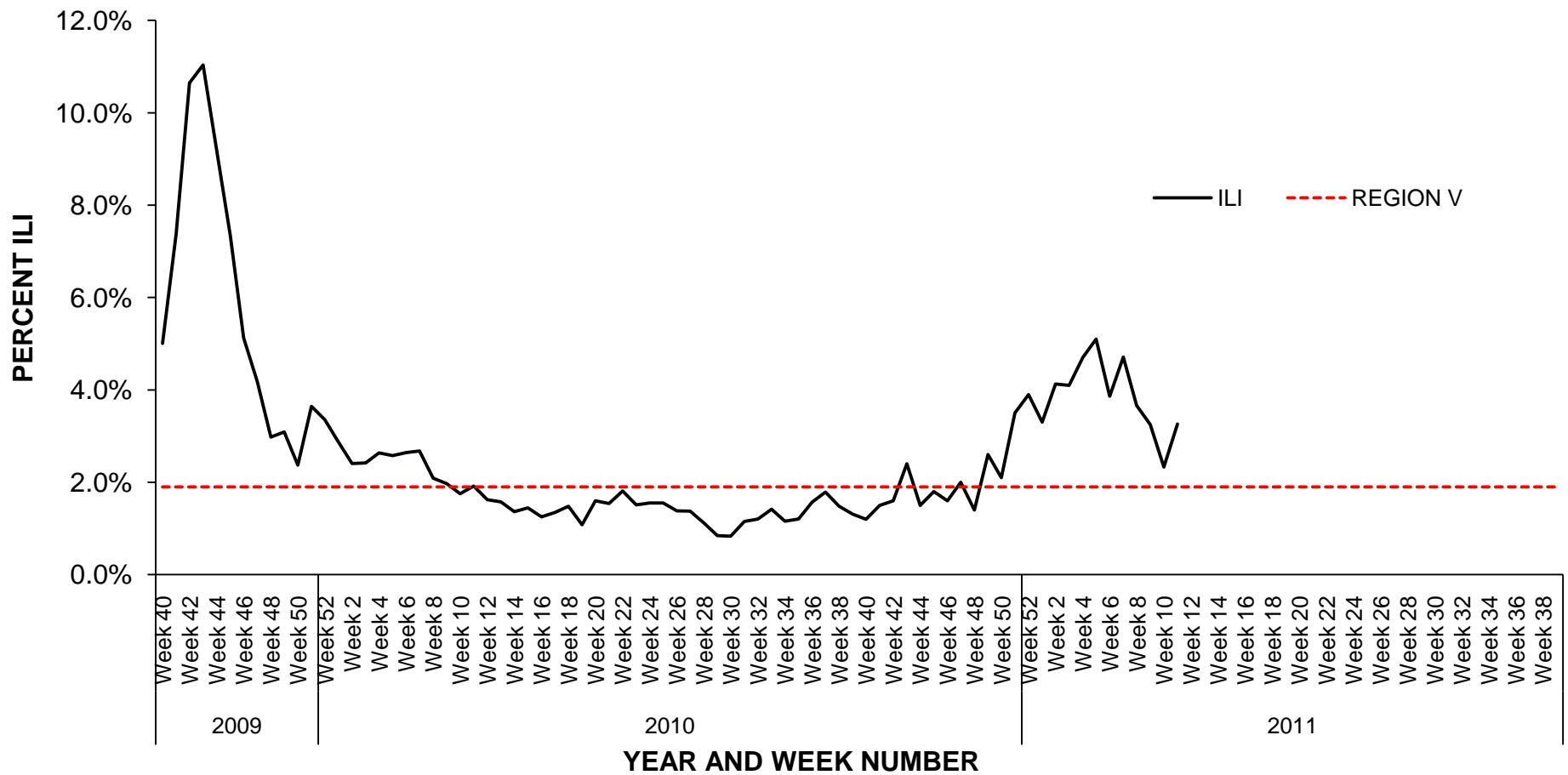
Data displayed in this map are based on data collected in ILINet, whereas the State and Territorial flu activity map are based on reports from state and territorial epidemiologists. The data presented in this map is preliminary and may change as more data is received.

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 .

Week 11: March 13 – March 19, 2011

ILI Net Provider Surveillance

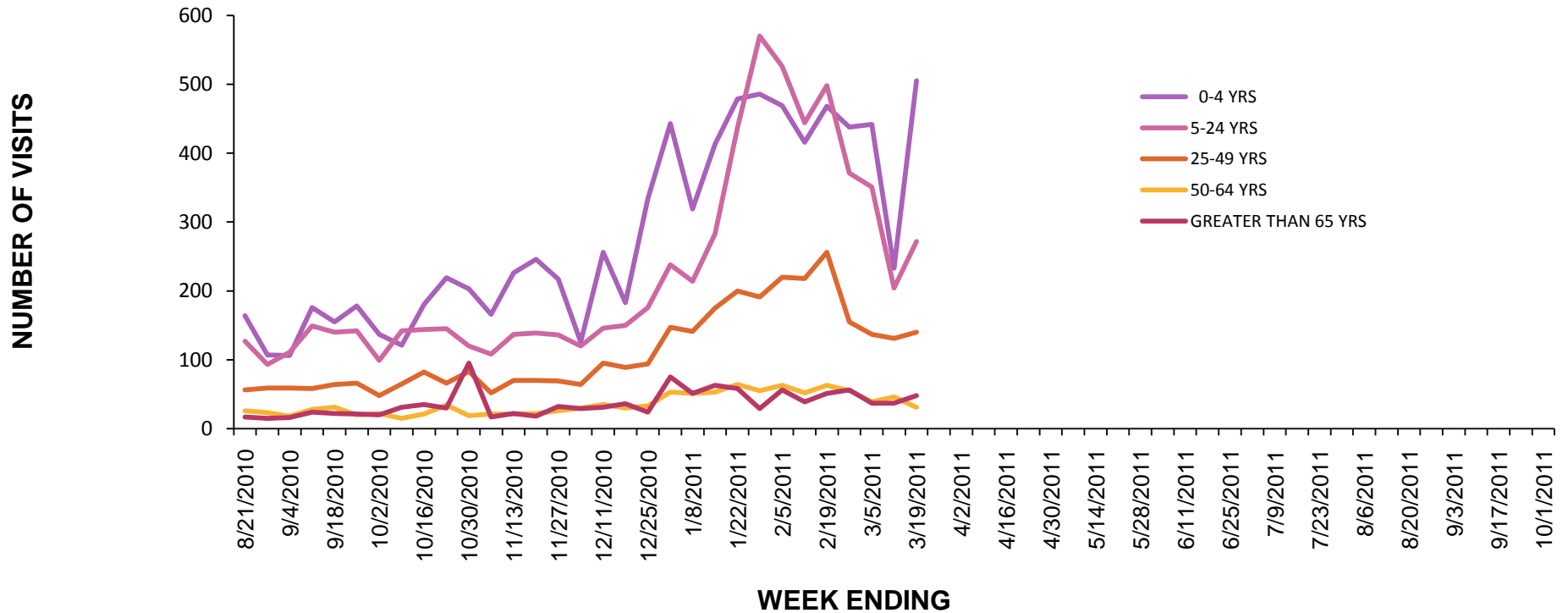
Influenza Like Illness Outpatient Surveillance 2009-2011



Week 11: March 13 – March 19, 2011

ILI Visits by Age Group

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



Great Lakes Naval Recruit Influenza Surveillance

FRI surveillance at Naval Recruit Training Command, Great Lakes for this week is **at or below expected level**. For more information visit <http://www.med.navy.mil/sites/nhrc/geis/Pages/default.aspx>

Influenza Intensive Care Unit Admissions and Deaths

There were 13 influenza-related ICU admissions and 2 influenza-related ICU deaths reported to IDPH during week 11.

Laboratory Surveillance

During week 11, six (33%) of the specimens tested by Illinois WHO/NREVSS² collaborating laboratories in Illinois tested positive for influenza. Of the positive specimens, 5 (83%) were 2009 influenza A H1N1 and 1 (17%) was influenza A human (H3) subtype.

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
7	1	0	2	2	0	0	1	78	6
8	1	0	2	4	0	0	0	32	19
9	1	0	13	5	0	0	0	39	46
10	1	0	4	0	0	0	4	41	20
11	1	0	5	1	0	0	0	18	33

² 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.

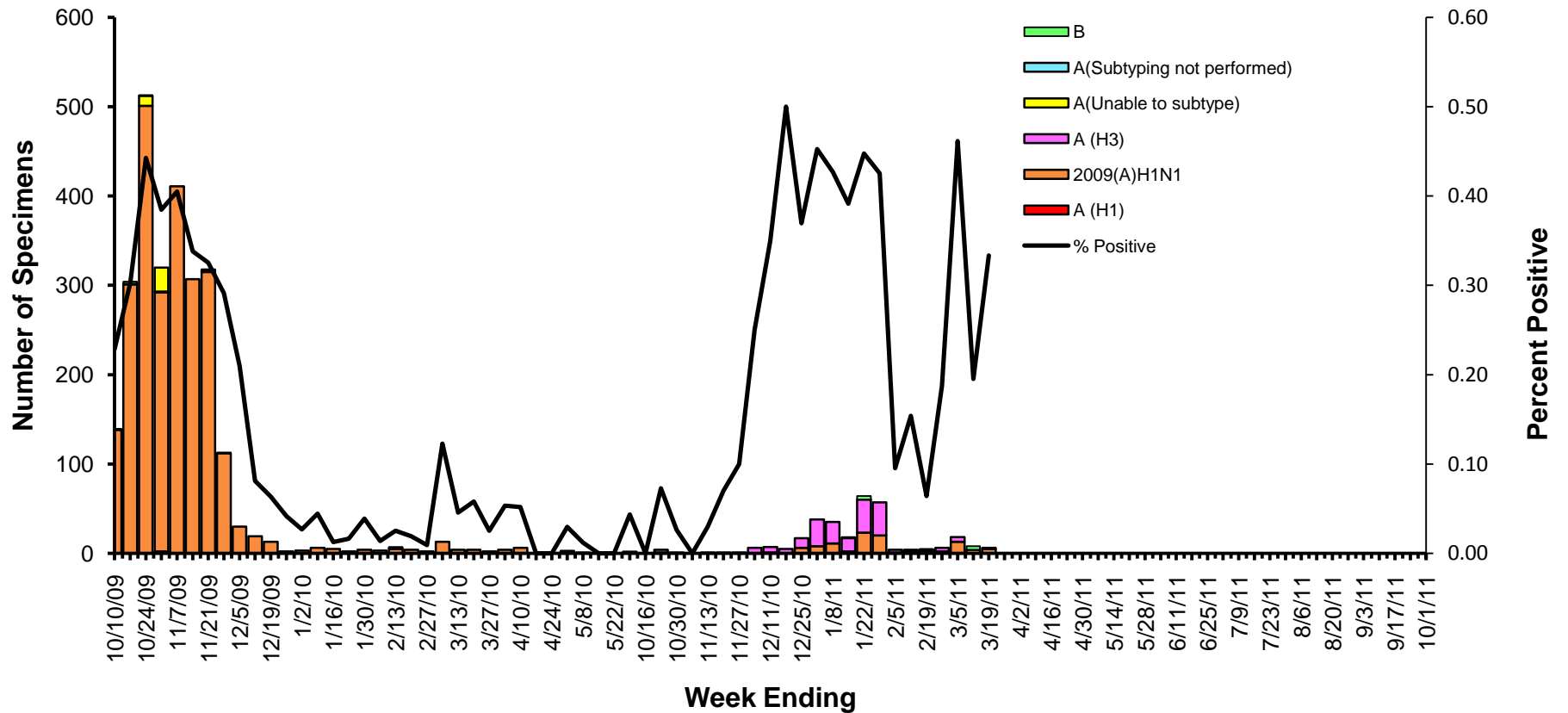
	Samples tested (n)	Resistant Viruses, Number (%)	Samples tested (n)	Resistant Viruses, Number (%)
		Oseltamivir		Zanamivir
Seasonal Influenza A (H1N1)	0	0 (0.0)	0	0 (0.0)
Influenza A (H3N2)	471	0 (0.0)	471	0 (0.0)
Influenza B	461	0 (0.0)	461	0 (0.0)
2009 Influenza A (H1N1)	670	5 (0.7)	191	0 (0.0)

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.htm>.

Week 11: March 13 – March 19, 2011

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>