Week 20: May 13- May 19, 2012

ILLINOIS DEPARTMENT OF PUBLIC HEALTH



Illinois Influenza Surveillance Report

Week 20: Week Ending Saturday, May 19, 2012

Division of Infectious Diseases Immunizations Section 6/1/2012

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Week 20: May 13- May 19, 2012

Summary

- During CDC week 20, the proportion of outpatient visits for influenza-like illness (ILI)¹ was 1.1% compared with 1.2% for week 19.
- Based on CDC criteria, influenza activity is classified as **no activity** (see CDC FLU View Section) for week 20. This represents a decrease in activity from week 19.
- Febrile Respiriratory Illness (FRI) surveillance² at Naval Recruit Training Command, Great Lakes was at or below expected value for week ending May 19, 2012.
- During week 20, no specimens were tested by Illinois Department of Public Health Laboratory. There were 294 total specimens submitted to the IDPH for the 2011-2012 season. Of those, 144 (49%) were positive for influenza. The results were as follows: 40 (28%) typed as A, H1N1; 85 (59%) as A, H3; 17 (12%) as B; and 2 (1%) weren't typed.
- One influenza-associated Intensive Care Unit (ICU) admission³ was reported for week 20. There
 were a total of 70 influenza-associated ICU admissions reported for the 2011-2012 season.
- No influenza-associated pediatric deaths were reported for the 2011-2012 season.
- During week 20, no influenza outbreaks were reported in a long-term care facility. There were a total of 39 outbreaks reported the 2011-2012 season.

¹ ILI "Influenza like Illness" is defined as fever ≥ 100°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)

Moderately elevated

^{3.} Substantially elevated

³ 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.

CDC Flu View

A Weekly Influenza Surveillance Report Prepared by the Influenza Division Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists* Week Ending May 19, 2012- Week 20 District of Columbia ■ No Report Guam No Activity Sporadic Local Regional ■ Widespread Alaska Hawaii **US Virgin Islands** Puerto Rico *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.

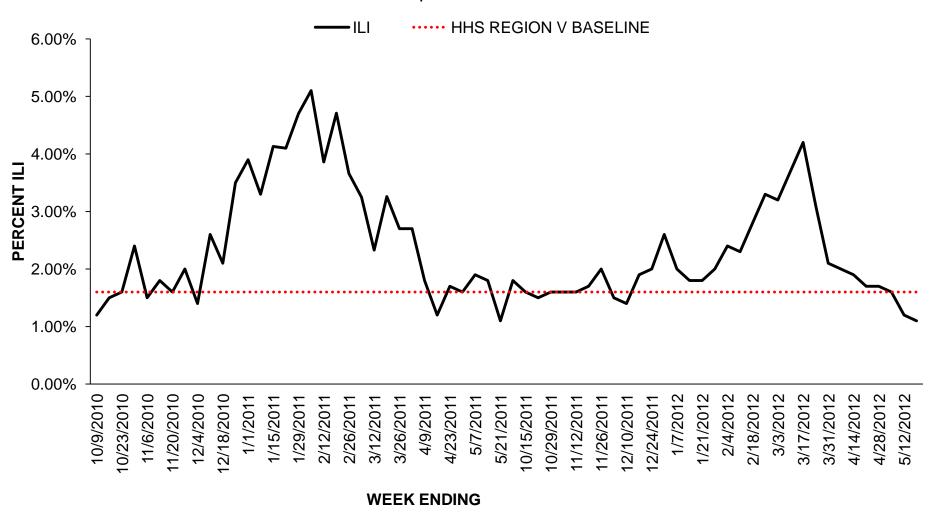
Local: Outbreaks of influenza or increases in ILI and recent laboratory confirmed influenza in a single region of the state.

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.

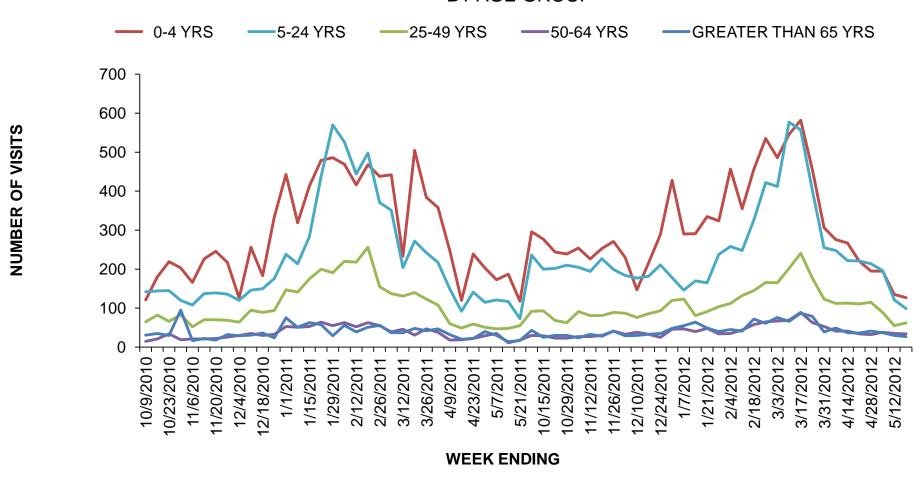
ILI Net Provider Surveillance

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 Respiriratory Illness (FRI) surveillance⁴ at Naval Recruit Training Command, Great Lakes was **at or below expected value** for week ending May 19, 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 May 19, 2012.

Year	Week No	Admissions No	Deaths
2012	7	3	0
2012	8	4	0
2012	9	2	0
2012	10	14	0
2012	11	9	0
2012	12	4	0
2012	13	8	0
2012	14	5	0
2012	15	4	0
2012	16	0	0
2012	17	1	0
2012	18	6	0
2012	19	2	0
2012	20	1	0

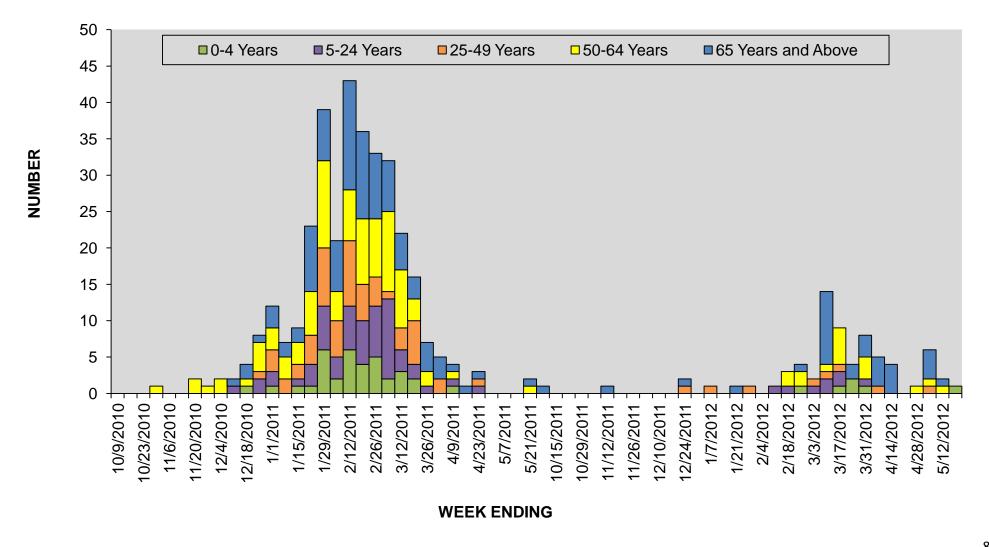
⁴ FRI surveillance is ongoing at 8 U.S. military basic training centers, representing all service branches. FRI Rate Status is classified into one of 3 categories:

^{4.} At or below expected value (expected value shown as dashed line)

Moderately elevated

Substantially elevated

Influenza Related ICU Admissions by Age Group



Laboratory Surveillance

During week 20, no specimens were tested by Illinois Department of Public Health Laboratory.

Year	Week	A (H1)	2009(A)H1N1	A (H3)	A(Unable to subtype)	A(Sub typing not performed)	В	Total # Tested	% Positive
2012	1	0	0	3	0	0	1	4	100%
2012	2	0	0	3	0	1	0	7	57%
2012	3	0	1	3	0	1	1	10	60%
2012	4	0	0	2	0	0	0	4	50%
2012	5	0	0	0	0	0	0	4	0
2012	6	0	3	1	0	0	1	9	56%
2012	7	0	0	3	0	0	0	4	75%
2012	8	0	6	13	0	0	4	30	77%
2012	9	0	12	12	0	0	1	30	83%
2012	10	0	4	8	0	0	0	30	40%
2012	11	0	11	24	0	0	0	46	76%
2012	12	0	2	3	0	0	0	9	56%
2012	13	0	0	4	0	0	0	11	36%
2012	14	0	1	0	0	0	0	2	50%
2012	15	0	0	1	0	0	0	4	25%
2012	16	0	0	0	0	0	0	2	0
2012	17	0	0	3	0	0	0	4	75%
2012	18	0	0	0	0	0	0	0	0
2012	19	0	0	0	0	0	1	2	50%
2012	20	0	0	0	0	0	0	0	0

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)	1,124	0 (0.0)	1,234	0 (0.0)
Influenza B	292	0 (0.0)	292	0 (0.0)
Influenza A (2009 H1N1)	1,147	16 (1.4)	491	0 (0.0)

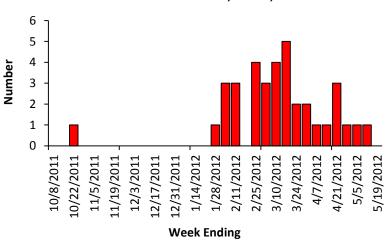
So far this season, 16 oseltamivir-resistant 2009 H1N1 viruses have been detected nationally. Information related to oseltamivir exposure among these cases is available for 14 patients. Among those 14 patients, 3 patients were using oseltamivir for 1 day or more at the time of specimen collection, 2 had family members using oseltamivir, and 9 had no exposure to oseltamivir (resistance of influenza A viruses to antiviral drugs can occur spontaneously and emerge during the course of antiviral treatment or antiviral exposure). 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 (LTC) and Nursing Homes (NH)

No influenza outbreaks reported in a long-term care facility for week 20. There were a total number of 39 outbreaks reported during 2011-12 Influenza season.

Region	Number of outbreaks No. (%)
Rockford (1)	6(15)
Peoria (2),	5(13)
Edwardsville (4),	6(15)
Marion (5),	3(8)
Champaign (6),	0(0)
West Chicago (7)	10(26)
Chicago/Cook (8)	9(23)
Total	39(100)

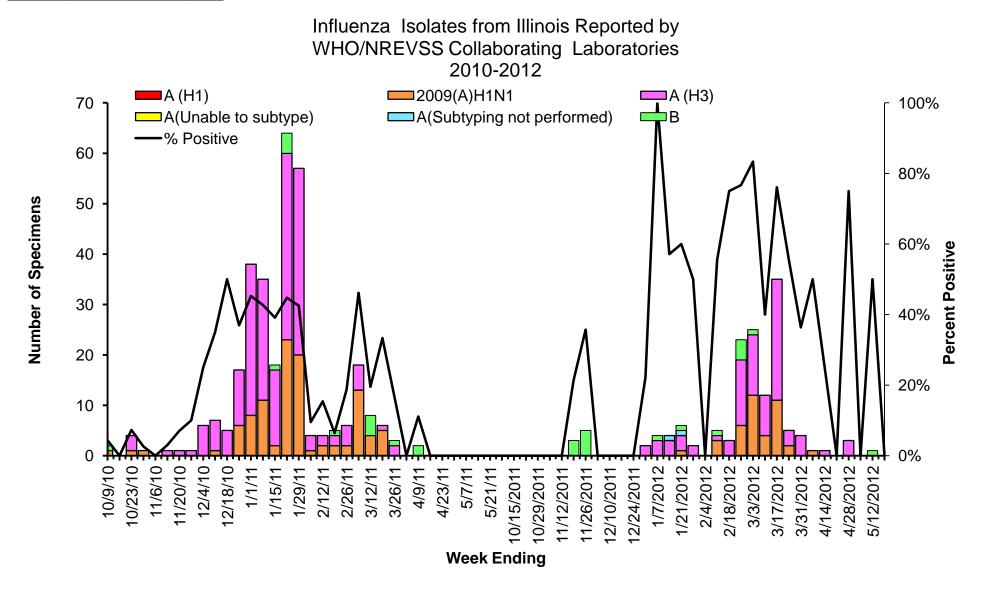
Number of LTC and NH Influenza Outbreaks Reported 2011-2012 Season, Illinois, N=39



IDPH, Immunization Section Regional Map



Weekly Viral Subtype



Week 20: May 13- May 19, 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