



# MI Flu Focus

## Influenza Surveillance Updates Bureaus of Epidemiology and Laboratories



Co-Editors: Stefanie DeVita, RN, MPH    devitas1@michigan.gov  
Bethany Reimink, MPH    reiminkb@michigan.gov

February 18, 2015  
Vol. 12; No. 5

**MI's Current Influenza Activity Level:**  
Regional

**Updates of Interest:**  
The [first](#) confirmed human case of avian influenza A(H9N2) has been reported in Egypt in a 3-year-old male.

### Influenza Surveillance Report for the Week Ending February 7, 2015

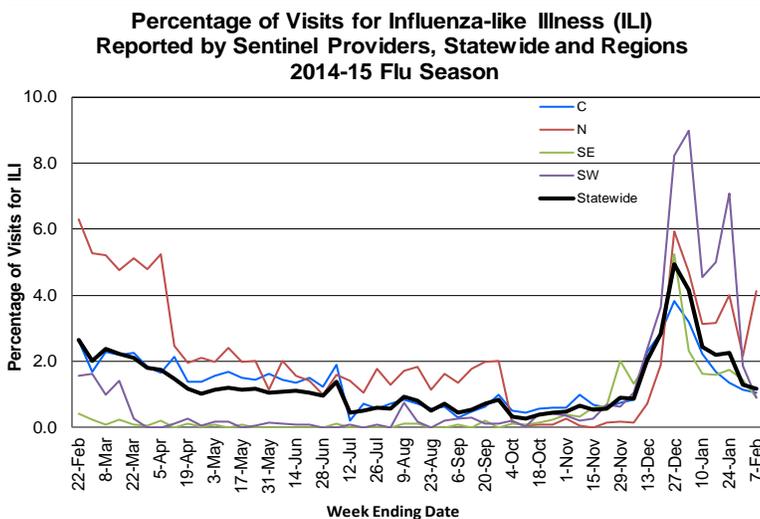
#### Michigan Disease Surveillance System

MDSS influenza data indicated that compared to levels from the previous week, both individual and aggregate reports decreased. Individual reports are higher than levels seen during the same time period last year while aggregate reports are lower compared to the previous year.

#### Emergency Department Surveillance

Compared to levels from the week prior, emergency department visits from constitutional complaints decreased while respiratory complaints increased. Levels of constitutional complaints were slightly higher than levels compared to the same time period last year, and respiratory complaints were noticeably higher compared to the previous year.

- 2 constitutional alerts (1SW, 1C)
- 9 respiratory alerts (4C, 5N)

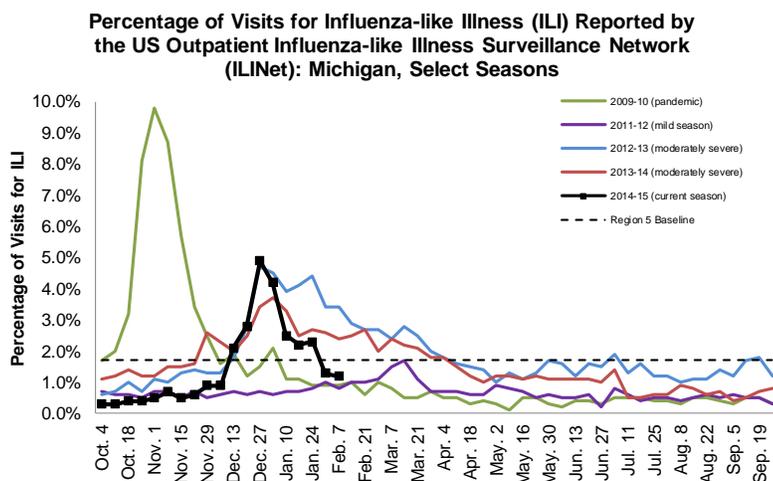


#### Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) decreased to 1.2% overall; this is below the regional baseline (1.7%). A total of 115 patient visits due to ILI were reported out of 9,738 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (31 total):

- C (13)
- N (3)
- SE (12)
- SW (3)



#### Become a Sentinel Provider!

As part of pandemic influenza surveillance, CDC and MDCH highly encourage year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Stefanie DeVita at [devitas1@michigan.gov](mailto:devitas1@michigan.gov) for more information.

#### Table of Contents:

Michigan Surveillance.....	1-3
National Surveillance.....	3
International Surveillance....	3
FluBytes .....	4

### Hospital Surveillance

The CDC Influenza Hospitalization Surveillance Project provides population-based rates of hospitalization due to severe influenza illness through active surveillance and chart review of lab-confirmed cases, starting on October 1, 2014, for Clinton, Eaton, Genesee, and Ingham counties. There were 10 influenza-related hospitalizations reported (accumulated total since Oct. 1: 66 children, 277 adults).

Based on these counts, there have been 34.2 pediatric influenza hospitalizations per 100,000 population and 40.5 adult influenza hospitalizations per 100,000 population within the catchment area.

The MDCH Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide, and 12 hospitals (N,C,SE,SW) reported. Results are listed in the table below. **Additional hospitals are welcome to join; please contact Seth Eckel at [eckels1@michigan.gov](mailto:eckels1@michigan.gov).**

Age Group	New Flu Hospitalizations Reported	Total 2014-15 Flu Hospitalizations to Date
0-4 years	1 (C)	23 (16C, 4SE, 3SW)
5-17 years	0	25 (24C, 1SE)
18-49 years	3 (1N, 1C, 1SE)	54 (1N, 9C, 42SE, 2SW)
50-64 years	3 (1C, 2SE)	83 (9C, 64SE, 10SW)
65 years & older	15 (2N, 12SE, 1SW)	410 (2N, 16C, 351SE, 41SW)
<b>Total</b>	<b>22 (3N, 3C, 15SE, 1SW)</b>	<b>595 (3N, 74C, 462SE, 56SW)</b>

### Laboratory Surveillance

MDCH Bureau of Laboratories reported 16 new positive influenza results: 15 A/H3 and 1 influenza B. A total of 470 positive influenza results have been reported for the 2014-15 season. Influenza results for the 2014-15 season are reported in the table below.

Respiratory Virus	# Positive Respiratory Virus Results by Region				Total	# Specimens Antigenically Characterized	# Tested for Antiviral Resistance
	C	N	SE	SW			# Resistant / Total # Tested
2009 A/H1N1pdm				1	1		
Influenza A/H3	109	33	96	201	439	8* (3 A/Texas/50/2012-like**, 5 A/Switzerland/9715293/2013-like)	0 / 104
Influenza B	4	4	16	4	28	27 (26 B/Yamagata lineage, 1 inconclusive)	
Influenza A, unsubtypeable	1			1	2		

\*Specimens antigenically characterized by CDC; \*\*A/Texas/50/2012 (H3N2) virus is the H3N2 component of the 2014-15 Northern Hemisphere flu vaccine. A/Switzerland/9715293/2013-like is an antigenic variant of the current vaccine virus.

In addition, 12 sentinel clinical labs (4SE,2SW,5C,1N) reported influenza results. Eleven labs (SE,SW,C,N) reported influenza A activity with most sites showing a continued slow downward trend. Ten labs (SE,SW,C,N) reported low or slightly elevated influenza B activity. Four labs (SE,C) reported low Parainfluenza activity. Eleven labs (SE,SW,C) reported RSV activity, with elevated levels continuing in the SE region. Three labs (SE,C) reported low Adenovirus activity. Six labs (SE,SW,C) reported low or slightly elevated hMPV activity. Most testing volumes continued to decline further or remain steady, but more than half of the sites remained in the high range.

### Influenza Congregate Settings Outbreaks

There were 3 respiratory facility outbreaks (1 confirmed flu A, 1 confirmed flu, and 1 unknown etiology/no testing) reported. There have been a total of 131 respiratory facility outbreaks reported to MDCH for the 2014-15 season. Respiratory facility outbreaks are listed in the table below by facility type and surveillance region.

Facility Type	C	N	SE	SW	Total
Adult Care Facility		1	2		3
Long-Term Care / Assisted Living Facility	25	9	27	32	93
K-12 School	1		1		2
Daycare				1	1
Unknown / Investigation Pending	16		4	9	29
Healthcare Facility				3	3
<b>Total</b>	<b>42</b>	<b>10</b>	<b>34</b>	<b>45</b>	<b>131</b>

### Influenza-associated Pediatric Mortality

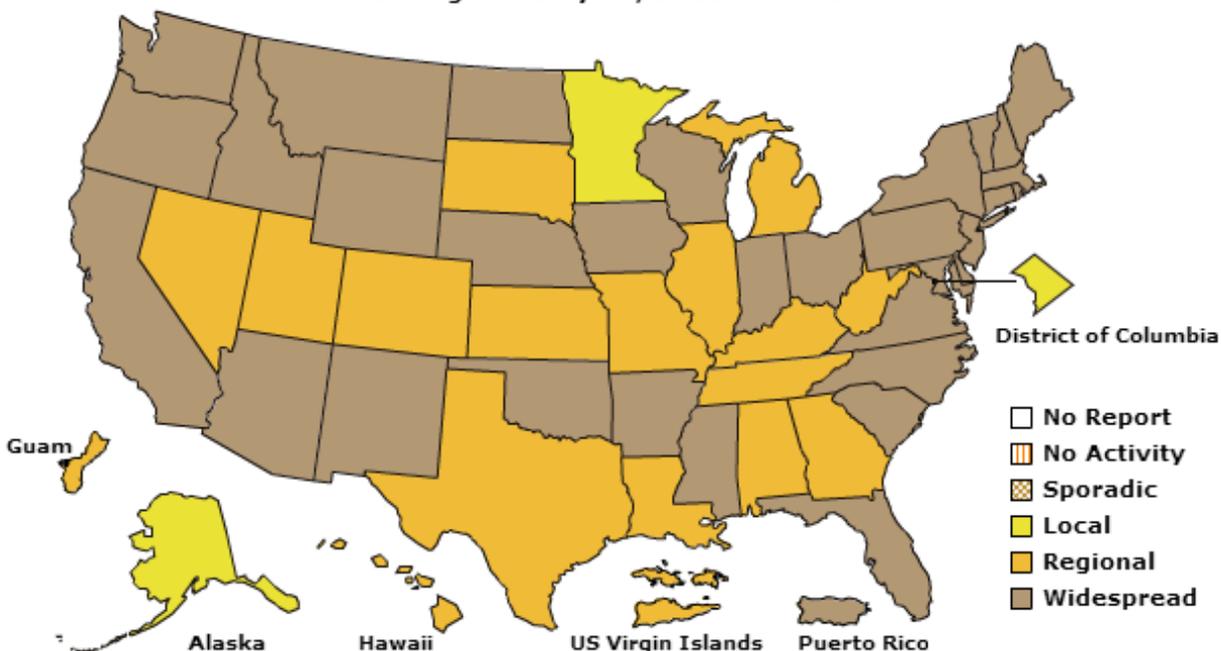
No new influenza-associated pediatric deaths were reported to MDCH. One influenza-associated pediatric death (1SE) has been reported to MDCH for the 2014-15 season.

**National:** Influenza activity decreased but remained elevated in the United States, with 3.8% of outpatient visits due to influenza-like illness. Eleven influenza-associated pediatric deaths were reported, bringing the 2014-15 total to 80. Additional information is in the weekly FluView reports available online at: [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/).

**International:** Influenza activity remained high in the Northern Hemisphere with influenza A(H3N2) viruses predominating so far. Antigenic characterization of most recent A(H3N2) viruses thus far indicated differences from the A(H3N2) virus used in the influenza vaccines for the Northern Hemisphere 2014-2015. Summary information is available online at [www.who.int/influenza/surveillance\\_monitoring/updates/latest\\_update\\_GIP\\_surveillance/en/](http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/en/).

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

Week Ending February 07, 2015- Week 5





## ACIP MEETING NEXT WEEK FEB. 25-26

The Advisory Committee on Immunization Practices (ACIP) has posted the [minutes](#) from the October ACIP meeting. Presentation slides and archived video broadcast from that meeting are also available [online](#). The next ACIP meeting is next week, February 25-26, and is available to watch online via live webcast. Instructions to watch the upcoming ACIP meeting can be found [here](#). Seasonal influenza vaccines and influenza A(H5N1) vaccine will be discussed on Feb. 25.

## INFLUENZA ACTIVITY THROUGHOUT THE U.S.

- [CDC: Flu slowing but on track for marathon season](#)
- CDC: [UPDATED - What you should know for the 2014-15 flu season](#) (Feb. 12)
- CDC: [UPDATED - Selecting viruses for the seasonal influenza vaccine](#) (Feb. 12)
  - WHO is meeting Feb. 23-25 to decide on the composition of 2015-16 Northern Hemisphere flu vaccines
- [5th Minnesota child has died due to influenza](#)
- MSU Today: [A pediatrician's view on vaccines](#)

## AVIAN INFLUENZA A(H5N1)

- [Chinese zoo reports 2 tiger deaths due to H5N1](#)
- [Global WHO and ministries of health confirmed H5N1 human case list](#)

## AVIAN INFLUENZA A(H7N9)

- [CHP notified of additional human case of H7N9 in Guangdong](#)
- Global H7N9 case count at [598 cases](#)
- European CDC: [Epidemiological update: human infection with H7N9, China](#)
- [PHA issues avian flu advice for travelers to Asia during Chinese New Year](#)

## OTHER AVIAN INFLUENZA NEWS

- [Human H9N2 infection in Egypt](#)
- [Oregon Dept. of Agriculture: Avian influenza detected in backyard bird flock](#)
- [Utah backyard bird owners warned about avian influenza](#)
- [Avian influenza in second California poultry farm](#)
- WHO: [Human infection with avian influenza A\(H5N6\) virus - China](#)

## UPCOMING COCA CALL – PEDIATRIC FLU

Clinician Outreach and Communication Activity (COCA) is holding a webinar on Thursday, February 26, from 2-3 PM called, “Protecting Children: Influenza Updates for Clinicians.” Registration is not required. To join the webinar, use [this link](#) or call 1-888-810-4792 (passcode: 7545982). During this webinar, clinicians will learn about the current state of flu activity related to children, the importance of continued vaccination despite the mismatch and low vaccine effectiveness, and strategies for using antiviral therapy early to prevent and treat flu.

## INFLUENZA-RELATED JOURNAL ARTICLES

- [Safety of live attenuated influenza vaccine in atopic children with egg allergy](#)
  - U.K. study shows LAIV appears safe for use in children with egg allergy
- [Study maps travel of H7 influenza genes](#)
- [Key to blocking influenza virus may lie in a cell's own machinery](#)

## OTHER INFLUENZA-RELATED NEWS

- [CDC Seasonal Flu Doses Distributed](#): ~147.8 million doses in U.S. as of February 6, 2015
- [Flu News Europe, Week 06/2015](#)
- [Flu vaccination digital ambassadors set the stage for NIVW with week-long blog relay](#)

## DAYCARE FLU VACCINE REQUIREMENTS

The National Foundation for Infectious Diseases (NFID) published a report titled “[Flu Care in Day Care: The Impact of Vaccination Requirements](#).” Currently, New Jersey, Connecticut, and New York City have implemented flu vaccine requirements for children enrolled in licensed preschools, child care, or day care centers. The report includes the challenges and lessons learned by those jurisdictions. NFID also archived a webinar on the same topic which can be found [here](#).

## FLU WEBSITES

[www.michigan.gov/flu](http://www.michigan.gov/flu)  
[www.cdc.gov/flu](http://www.cdc.gov/flu)  
[www.flu.gov](http://www.flu.gov)  
<http://vaccine.healthmap.org/>

Archived editions of FluBytes are available [here](#) and MI FluFocus archives are [here](#).

For questions or to be added to the distribution list, please contact Stefanie DeVita at [devitas1@michigan.gov](mailto:devitas1@michigan.gov).

### MDCH Contributors

Bureau of Epidemiology – S. Bidol, MPH, S. DeVita, RN, MPH, S. Eckel, MPH, B. Reimink, MPH  
Bureau of Labs – B. Robeson, MT, V. Vavricka, MS