



# MI Flu Focus

## Influenza Surveillance Updates

### Bureaus of Epidemiology and Laboratories



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June 16, 2016

Vol. 13; No. 21

## Influenza Surveillance Report for the Week Ending June 4, 2016

### Updates of Interest:

An [article](#) was published in *Morbidity and Mortality Weekly Report (MMWR)* on June 10 summarizing influenza activity in the United States during the 2015-16 flu season.

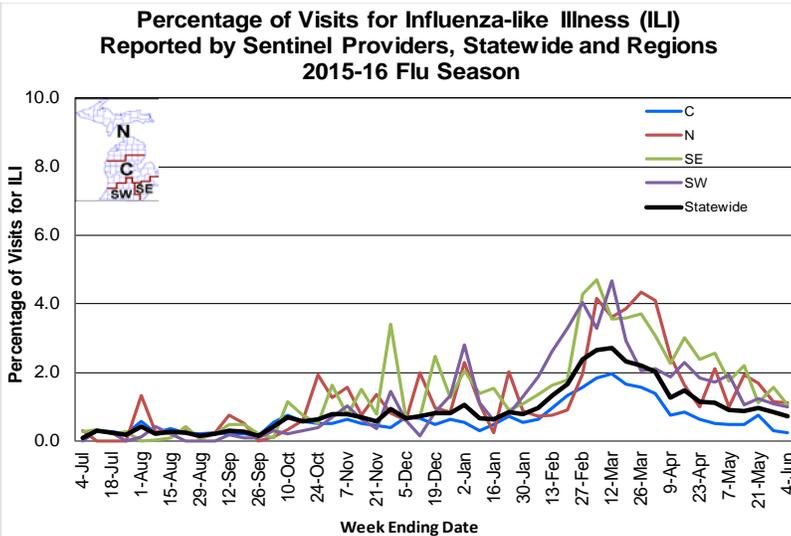
### Michigan Disease Surveillance System

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

### Emergency Department Surveillance

Compared to levels from the week prior, emergency department visits from constitutional and respiratory complaints were both similar. Levels of constitutional and respiratory complaints were both similar to those recorded during the same time period last year.

- 3 constitutional alert (2C, 1SW)
- 4 respiratory alerts (1N, 1C, 2SW)



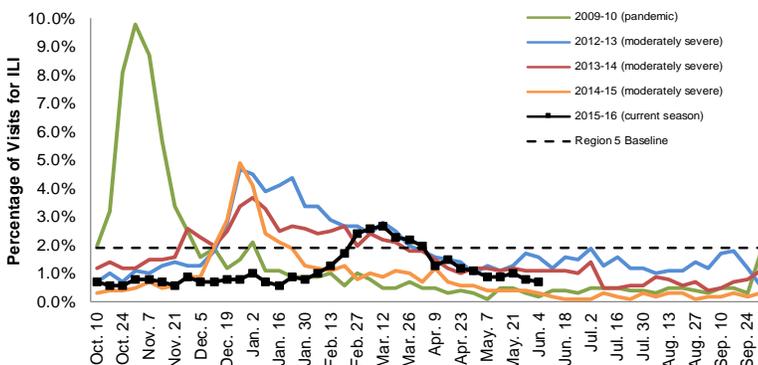
### Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) decreased to 0.7% overall, which is below the regional baseline of 1.9%. A total of 54 patient visits due to ILI were reported out of 7,342 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region (34 total):

- C (10)
- N (3)
- SE (15)
- SW (6)

Percentage of Visits for Influenza-like Illness (ILI) Reported by the US Outpatient Influenza-like Illness Surveillance Network (ILINet): Michigan, Select Seasons



### Become a Sentinel Provider!

As part of pandemic influenza surveillance, CDC and MDHHS highly encourage year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Stefanie Cole ([ColeS4@michigan.gov](mailto:ColeS4@michigan.gov)) for more information.

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## 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 from Oct. 1, 2015 until Apr. 30, 2016, for Clinton, Eaton, Genesee, and Ingham counties. During the surveillance period, there were 75 pediatric (39.3 per 100,000 population) and 217 adult (31.6 per 100,000 population) hospitalizations reported within the catchment area. Note: The catchment period for the IHSP has ended for the 2015-2016 influenza season.

The MDHHS Influenza Sentinel Hospital Network monitors influenza hospitalizations reported voluntarily by hospitals statewide. During the summer months, hospitalizations are reported on a case-by-case basis. Results for the 2015-16 flu season 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 2015-16 Flu Hospitalizations Reported to Date
0-4 years	0	40 (22N, 1C, 8SW, 9SE)
5-17 years	0	28 (13N, 1C, 4SW, 10SE)
18-49 years	0	166 (30N, 3C, 34SW, 99SE)
50-64 years	0	225 (30N, 9C, 40SW, 146SE)
65 years & older	0	262 (30N, 9C, 43SW, 180SE)
<b>Total</b>	<b>0</b>	<b>721 (125N, 23C, 129SW, 444SE)</b>

## Laboratory Surveillance

MDHHS Bureau of Laboratories reported 3 new positive influenza results: Two flu B and one A/H3. A total of 381 positive influenza results have been reported for the 2015-16 season. Influenza results for the 2015-16 season are 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	62	23	72	113	270	21* (21 A/California/07/2009-like (H1N1)pdm09**)	2 / 96
Influenza A/H3	15	7	12	17	51	8* (6 A/Switzerland/9715293/2013-like <sup>†</sup> )	0 / 20
Influenza B	8	6	17	24	55	43 (18 B/Yamagata lineage [5 B/Phuket/3073/2013-like <sup>††</sup> ], 21 B/Victoria lineage [3 B/Brisbane/60/2008-like])	
A / unsubtypeable				5	5		
LAIV recovery				1	1		
RSV			2		2		
Adenovirus	2		1		3		
Parainfluenza type 1			1		1		

\*Specimens antigenically characterized by CDC; \*\*A/California/07/2009-like (H1N1)pdm09 is the H1N1 component of the 2015-16 Northern Hemisphere flu vaccines; <sup>†</sup>A/Switzerland/9715293/2013-like (H3N2) is the H3N2 component of the 2015-16 Northern Hemisphere flu vaccines; <sup>††</sup>B/Phuket/3073/2013-like virus is the B/Yamagata component of the 2015-16 Northern Hemisphere trivalent and quadrivalent flu vaccines.

In addition, 11 sentinel clinical labs (3SE, 2SW, 6C) reported influenza results. Four labs (SE, SW, C) reported sporadic or very low influenza B activity. Five labs (SW, C) reported neither influenza A or B activity. Three labs (SE, SW, C) reported low Parainfluenza activity. Two labs (SE, C) reported sporadic RSV activity. One lab (SE) reported low Adenovirus activity. Three labs (SE, C) reported sporadic hMPV activity. All testing volumes are reduced with most levels at or near the low range.

### Influenza Congregate Settings Outbreaks

There were no new respiratory facility outbreaks reported. There have been a total of 33 respiratory facility outbreaks reported to MDHHS for the 2015-16 season. Respiratory facility outbreaks are listed in the table below by facility type and surveillance region.

Facility Type	C	N	SE	SW	Total
K-12 School	1	2		4	7
Long-term Care / Assisted Living Facility	8	1	5	8	22
Healthcare Facility		1	1		2
Daycare				1	1
Correctional Facility		1			1
<b>Total</b>	<b>9</b>	<b>5</b>	<b>6</b>	<b>13</b>	<b>33</b>

### Influenza-associated Pediatric Mortality

No new influenza-associated pediatric deaths were reported to MDHHS. One influenza-associated pediatric death (SE) has been reported to MDHHS for the 2015-16 season.

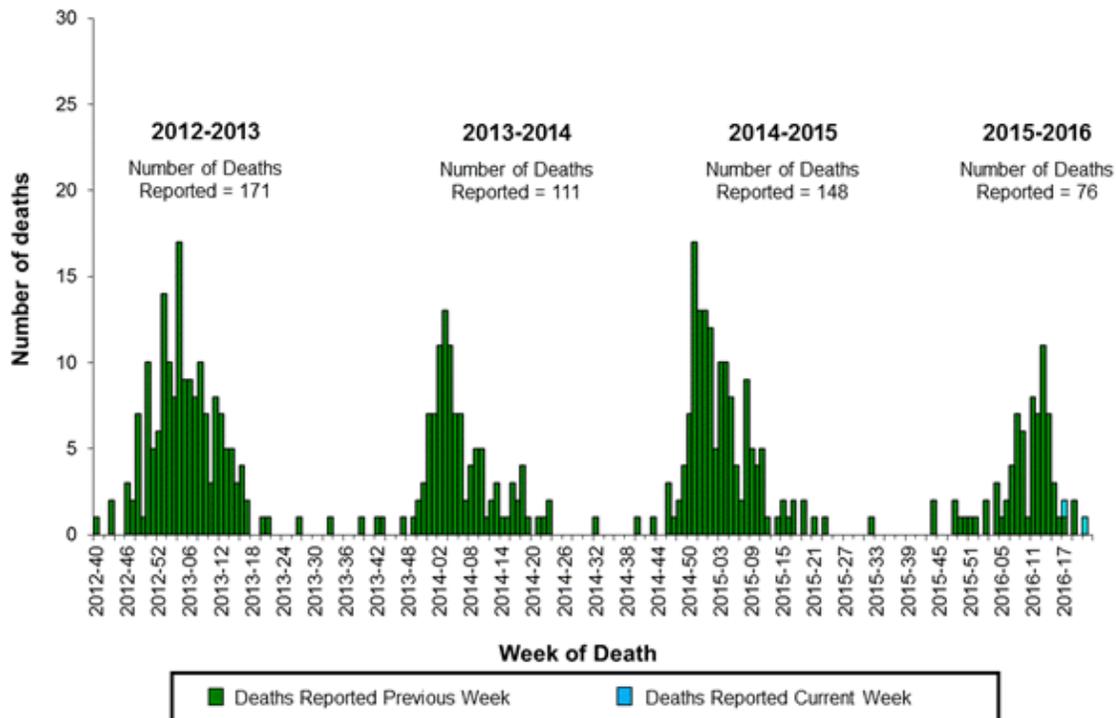
**National:** In the United States, 1.3% of outpatient visits due to influenza-like illness, which is below the national baseline of 2.1%. Two new influenza-associated pediatric deaths was reported, for a total of 76 pediatric deaths for the 2015-16 flu season. Additional information is in the weekly FluView reports available at: [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/).

**NOTE:** Influenza surveillance in the U.S. will continue through the summer months with condensed reports available at [www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/); the full FluView resumes on October 16, 2015. [FluView interactive](#) will be updated over the summer months.

**International:** In the Northern Hemisphere, influenza activity continued to decrease, with influenza B virus accounting for the majority of detections. In the Southern Hemisphere, influenza activity started to increase in South America and South Africa, but remained low overall in most of Oceania. More information is available 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/).

## Number of Influenza-Associated Pediatric Deaths by Week of Death: 2012-2013 season to present





## MI IMMUNIZATION TIMELY TIPS NEWSLETTER

The May/June issue of the Michigan Immunization Timely Tips (MITT) newsletter has been [posted online](#). This issue contains articles on Hepatitis Awareness Month, the winners of the MDHHS 2015-16 College Flu Challenge, improving infant immunization rates, AIM packets (childhood, adolescent, and adult), and more!

## UPCOMING ACIP MEETING, JUNE 22-23

The next [meeting](#) of the Advisory Committee on Immunization Practices (ACIP) is June 22-23. A draft agenda has been [posted](#). The influenza discussion is currently scheduled for Wednesday, June 22<sup>nd</sup> from 3:00-5:00 PM. A summary of the proposed vaccination recommendations for the 2016-2017 flu season is scheduled to be presented. Instructions to watch the live webcast can be found [here](#).

## INFLUENZA-RELATED JOURNAL ARTICLES

- *Eurosurveillance*: [Effects of previous episodes of influenza and vaccination in preventing lab-confirmed influenza in Navarre, Spain, 2013-14 season](#)
  - Previous episode of flu induced high protection only against the same virus subtype
  - Flu vaccination provided low to moderate protection against all circulating subtypes
- [Maternal immunization with trivalent inactivated influenza vaccine for prevention of influenza in infants in Mali: a prospective, active-controlled, observer-blind, randomized phase 4 trial](#)
  - Vaccinating pregnant women with flu vaccine in Mali was technically and logistically feasible, protected infants from lab-confirmed flu for 4 months
- [Community pharmacist-physician collaboration can help prevent flu spread](#)

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

## AIM AWARD NOMINATIONS DUE JUNE 27

The Alliance for Immunization in Michigan (AIM) Outstanding Achievement Award recognizes individuals and organizations who consistently work to promote and increase immunizations. AIM is now accepting nominations for the 2016 Outstanding Achievement Award. For eligibility criteria and how to submit a nomination, visit [www.aimtoolkit.org/health-care/awards.php](http://www.aimtoolkit.org/health-care/awards.php). Nominations must be submitted by close of business on Monday, June 27, 2016.

## AVIAN INFLUENZA INTERNATIONAL NEWS

- [Netherlands reports 1<sup>st</sup> H7N9 poultry outbreak since 2015](#)
- WHO: [Human infection with avian influenza A\(H5N6\) virus – China](#)
- [H7N3 reported in Jalisco poultry](#)
- [Two more H5N1 outbreaks cause loss of 35,000 chickens in Nigeria](#)
- *PLOS ONE*: [Serological evidence of human infection with avian influenza A H7 virus in Egyptian poultry growers](#)
- [First H5N1 outbreak in Lebanon over](#)
- *Journal of Wildlife Diseases*: [Experimental challenge of peridomestic European starlings with novel influenza A\(H7N9\) virus from China](#)
- [H5N1 outbreak hits Nigeria's Abuja region](#)
- [France reports low-path H5N2 avian flu in poultry](#)
- *Cell Host & Microbe*: [Both neutralizing and non-neutralizing human H7N9 influenza vaccine-induced monoclonal antibodies confer protection](#)
- [H7N9 halts live poultry trade](#)

## OTHER INFLUENZA-RELATED NEWS

- [Panama issues national health alert over H1N1 influenza](#)
- [Iowa egg inspections resume after 1-year hiatus](#)

## 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/>

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