



# MI Flu Focus

## Influenza Surveillance Updates

### Bureaus of Epidemiology and Laboratories



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### Influenza Surveillance Report for the Week Ending November 26, 2016

**MI's Influenza Activity Level:**  
Sporadic

**Updates of Interest:**

December 4 -10 is National Influenza Vaccination Week! For a list of NIVW activities and resources, including a media toolkit, go to [www.cdc.gov/flu/nivw](http://www.cdc.gov/flu/nivw).

#### Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) increased to 1.8% overall, which is below the regional baseline of 1.9%. A total of 112 patient visits due to ILI were reported out of 6,124 office visits. Please note: These rates may change as additional reports are received.

#### Number of Reports by Region (26 total):

- C (10)
- N (0)
- SE (12)
- SW (4)

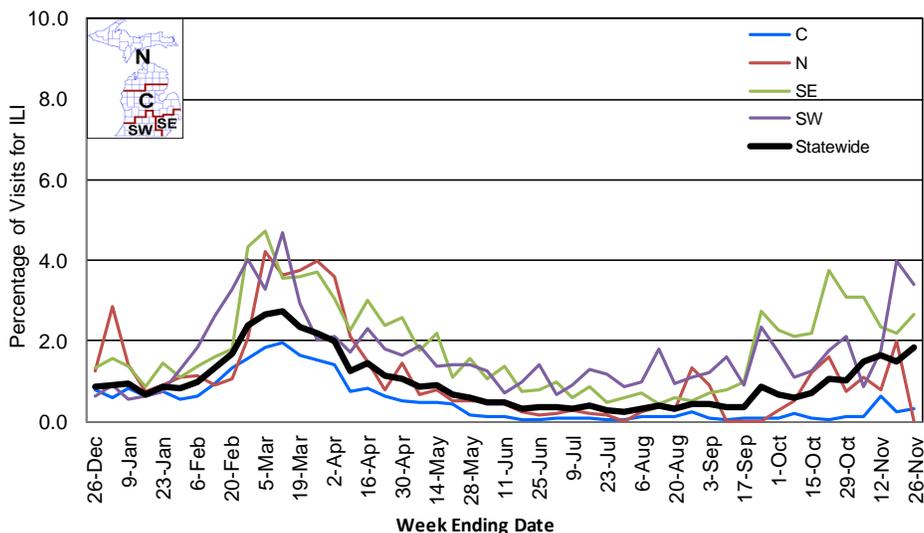
**National Surveillance:** In the United States, 1.8% of outpatient visits were due to influenza-like illness, which is below the national baseline of 2.2%.

#### Become a Sentinel Provider!

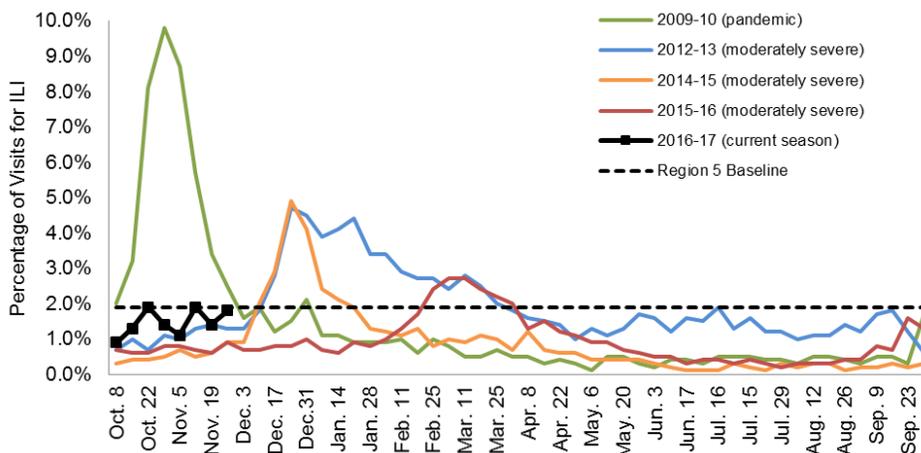
As part of pandemic influenza surveillance, CDC and MDHHS highly encourage year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Jalyn Ingalls ([IngallsJ@michigan.gov](mailto:IngallsJ@michigan.gov)) for more information.

Additional information is in the weekly FluView reports available at: [www.cdc.gov/flu/weekly](http://www.cdc.gov/flu/weekly).

Percentage of Visits for Influenza-like Illness (ILI) Reported by Sentinel Providers, Statewide and Regions 2015-16 - 2016-17 Flu Seasons



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



### 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, 2016 until Apr. 30, 2017, for Clinton, Eaton, Genesee, and Ingham counties. Since Oct. 1, there have been **1 pediatric and 3 adult** influenza-related hospitalizations reported in the catchment area for the 2016-2017 season. Note: Cumulative totals may change from week to week as cases are reviewed to determine if they meet the case definition.

The MDHHS Influenza Sentinel Hospital Network monitors influenza-related admissions reported voluntarily by hospitals statewide, with 11 facilities (N, C, SE, SW) reporting during this time period. Results for the 2016-17 flu season are listed in the table below. Additional hospitals are encouraged to join; please contact Seth Eckel at [eckels1@michigan.gov](mailto:eckels1@michigan.gov).

Age Group	New Flu Hospitalizations Reported	Total 2016-17 Flu Hospitalizations Reported to Date
0-4 years	1 (N)	1 (N)
5-17 years	0	0
18-49 years	0	0
50-64 years	1 (N)	1 (N)
65 years & older	1 (SE)	7 (2N, 5SE)
<b>Total</b>	<b>3 (2N, 1SE)</b>	<b>9 (4N, 5SE)</b>

### Influenza-associated Pediatric Mortality

No new influenza-associated pediatric deaths were reported to MDHHS. In Michigan, there have been no influenza-associated pediatric deaths reported for the 2016-17 season. Nationally, no influenza-associated pediatric deaths have been reported thus far for the 2016-17 flu season.

### Laboratory Surveillance

MDHHS Bureau of Laboratories reported no new positive influenza results during this time period. A total of 27 positive influenza results have been reported for the 2016-17 season. Influenza results for the 2016-17 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							
Influenza A/H3	7	1	14	3	25		0 / 8
Influenza B			1	1	2	1 (B/PHUKET/3073/2013-LIKE)	
A / unsubtypeable							
LAIV recovery							

In addition, 11 sentinel clinical labs (2SE, 2SW, 6C, 1N) reported influenza testing results. One lab (SE) reported sporadic influenza A activity. Three labs (SE, SW, N) reported sporadic influenza B activity. Five labs (C, SE, SW) reported low or gradually increasing Parainfluenza activity. Six labs (C, SE, SW) reported low or slightly increasing RSV activity. Two labs (SE, C) reported sporadic or low Adenovirus activity. Three labs (SE, SW, C) reported sporadic hMPV activity. Testing volumes appear generally steady or gradually increasing, with most at low to moderate levels.

### Congregate Setting Outbreaks of Viral Respiratory Illness

There were no new respiratory facility outbreaks reported to MDHHS during this time period. Respiratory facility outbreaks for the 2016-2017 season are listed in the table below.

Facility Type	C	N	SE	SW	Total
K-12 School					
Long-term Care / Assisted Living Facility			1	2	3
Healthcare Facility					
Daycare					
Correctional Facility					
<b>Total</b>			<b>1</b>	<b>2</b>	<b>3</b>

### Michigan Disease Surveillance System

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

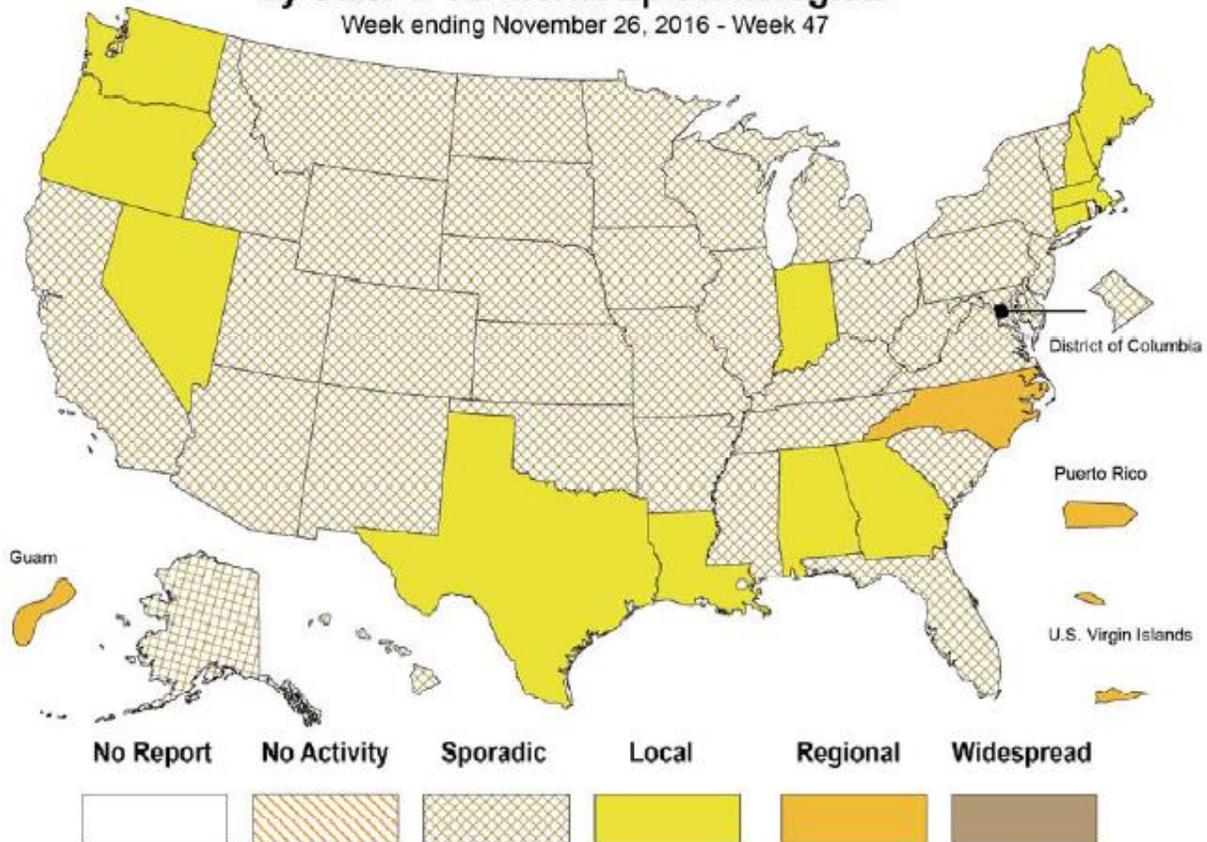
### Emergency Department Surveillance

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

- 13 constitutional alerts (1 Statewide, 3N, 6C, 3SW)
- 9 respiratory alerts (2N, 3C, 1SE, 3SW)
- Last MIFF report: 4 constitutional alerts (2C, 2SE), 6 respiratory alerts (5C, 1SW)

### Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists\*

Week ending November 26, 2016 - Week 47





## FDA EXTENDS INDICATION FOR GSK'S FLULAVAL QUADRIVALENT INFLUENZA VACCINE IN INFANTS

The U.S. Food and Drug Administration (FDA) approved extending the age indication for use of FluLaval® Quadrivalent (ID Biomedical Corporation of Quebec, a subsidiary of GlaxoSmithKline) to include children aged 6 through 35 months. **FluLaval® Quadrivalent is now licensed for use in all persons 6 months of age and older.**

MDHHS has updated the following flu vaccine educational handouts (linked below and attached):

- [Seasonal Influenza Vaccines 2016-17](#) (presentation chart)
- [Who Needs Two Doses of 2016-17 Seasonal Influenza Vaccine?](#)
- [A Quick Look at Inactivated Influenza Vaccines](#)

## NATIONAL INFLUENZA VACCINATION WEEK

National Influenza Vaccination Week is December 4<sup>th</sup> through 10<sup>th</sup>! During this week, efforts will be made nationally to promote giving influenza vaccines through the holiday season, January, and beyond. CDC has provided [media resources](#) that you can use to help promote NIVW!

*NIVW Reddit Science AMA:* On Tuesday, December 6, the Reddit Science Ask Me Anything will feature CDC AMD expert Dr. Barnes, who will answer Reddit community questions about CDC seasonal influenza AMD technology. Join the conversation on December 6, 2016 from 1:00-3:00 pm ET on Reddit [here](#).

*NIVW Twitter Hashtag Challenge:* On Wednesday, December 7, CDC is sponsoring a [twitter hashtag challenge](#). Choose a movie, replace one of the words in the title with flu, and tweet your movie title with the hashtag, "PutFluInAFilm", and a short message about the importance of the flu vaccine!

## 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 Jalyn Ingalls at [ingallsj@michigan.gov](mailto:ingallsj@michigan.gov).

### MDHHS Contributors

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## INFLUENZA-RELATED JOURNAL ARTICLES

- [Additives for vaccine storage to improve thermal stability of adenoviruses from hours to months](#)
  - Characterizes additives that, already at very low concentrations, improve storage of adenovirus type 5
- [School absenteeism among school-aged children with medically attended acute viral respiratory illness during three influenza seasons, 2012-2013 through 2014-15](#)
  - Influenza vaccine did not reduce the number of school days missed by children who tested positive for influenza
  - Major flaw of study was that it missed the population of children who had the flu but were not sick enough to seek medical attention
- [A major impact of the influenza seasonal epidemic on intensive care units, reunion, April to August 2016](#)
- [School-located influenza vaccinations: A randomized trial](#)
- [Real-time real-world analysis of seasonal influenza vaccine effectiveness: Method development and assessment of a population-based cohort in Stockholm county, Sweden, seasons 2011/12 to 2014/15](#)
- [Influenza seasonality in the tropics and subtropics – When to vaccinate?](#)
  - Based on timing of influenza activity in various regions and FluNet data, researchers determine recommendations for vaccine timing and formulation

## OTHER INFLUENZA-RELATED NEWS

- [Parents are insisting on doctors who insist on vaccinations](#)
- [Influenza-related hospitalizations and poverty levels – United States, 2010-2012](#)

## AVIAN INFLUENZA INTERNATIONAL NEWS

- [H5N8 avian flu outbreak expands to Egypt](#)
- [Weighing serological evidence of human exposure to animal influenza viruses- A literature review](#)