



MI Flu Focus

Influenza Surveillance Updates

Bureaus of Epidemiology and Laboratories



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Influenza Surveillance Report for the Week Ending October 15, 2016

MI's Influenza Activity Level:
Sporadic

Updates of Interest:

Nevada, North Carolina, and South Carolina have all reported first flu-related deaths of the 2016-17 season.

Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) increased to 1.1% overall, which is below the regional baseline of 1.9%. A total of 112 patient visits due to ILI were reported out of 10,535 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region

(30 total):

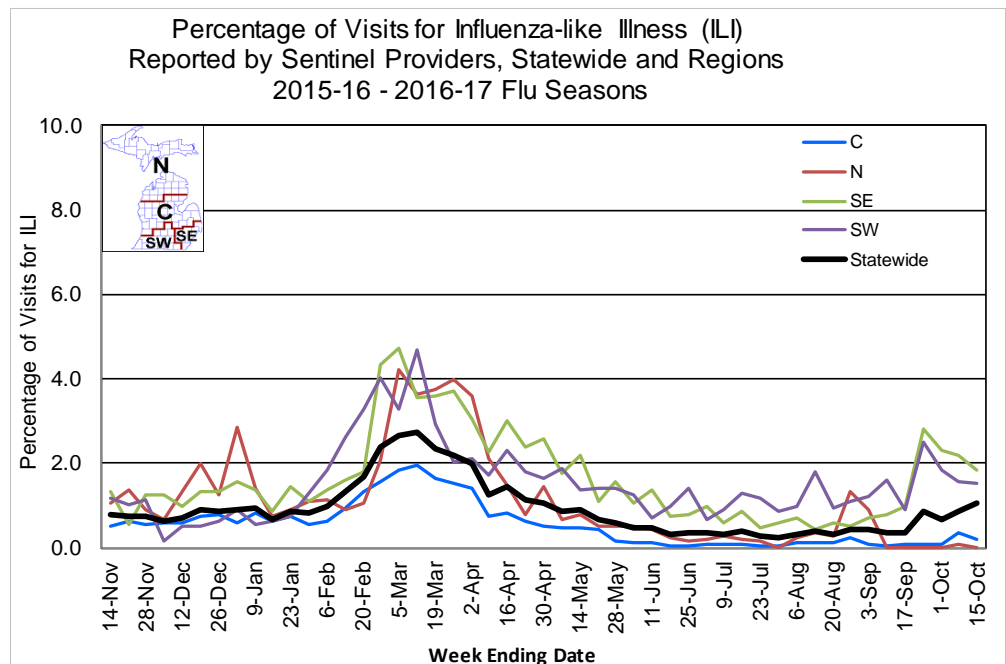
- C (12)
- N (2)
- SE (12)
- SW (4)

National Surveillance: In the United States, 1.2% of outpatient visits were due to influenza-like illness, which is below the national baseline of 2.2%.

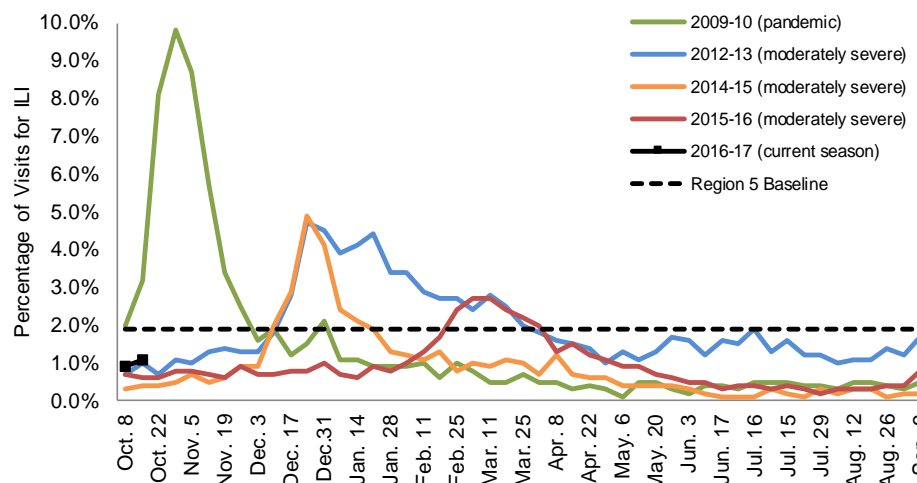
Become a Sentinel Provider!

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) for more information.

Additional information is in the weekly FluView reports available at: www.cdc.gov/flu/weekly.



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. To date, there have been no influenza-related hospitalizations reported within the catchment area. 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 10 facilities (C, N, SW, SE) 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.

Age Group	New Flu Hospitalizations Reported	Total 2016-17 Flu Hospitalizations Reported to Date
0-4 years	0	0
5-17 years	0	0
18-49 years	0	0
50-64 years	0	0
65 years & older	0	0
Total	0	0

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 1 new positive influenza results, an influenza A/H3 from an adult in SE Michigan. A total of 6 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	0	0	4	2	6		
Influenza B							
A / unsubtypeable							
LAIV recovery							

In addition, 10 sentinel clinical labs (2SE, 2SW, 6C) reported influenza results. Three labs (SE, C) reported sporadic influenza A activity. No labs reported influenza B activity. Four labs (SE, SW, C) reported ongoing low Parainfluenza activity. One lab (SE) reported sporadic RSV activity. Three labs (SE, SW) reported sporadic Adenovirus activity. No labs reported hMPV activity. Most testing volumes are low but showing a continued upward trend.

Congregate Setting Outbreaks of Viral Respiratory Illness

There was one new respiratory facility outbreak reported (SW) to MDHHS, with rhinovirus/enterovirus being confirmed as the etiology. 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	1
Healthcare Facility					
Daycare					
Correctional Facility					
Total				1	1

Michigan Disease Surveillance System

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

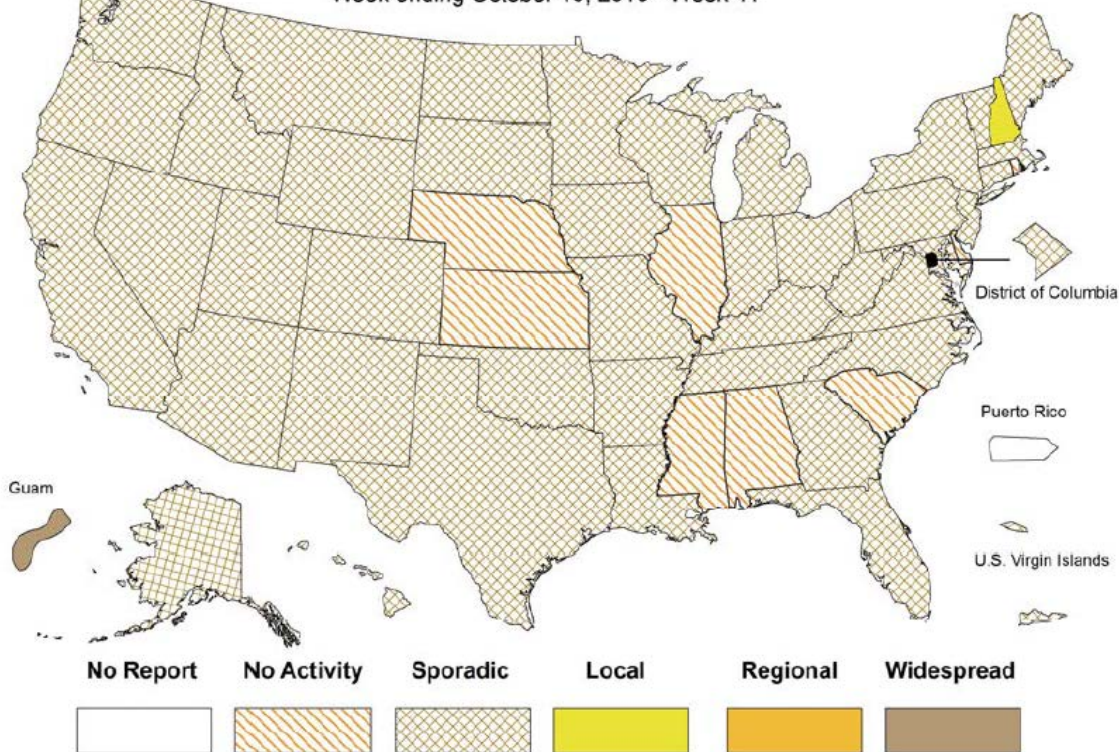
Emergency Department Surveillance

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

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

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending October 15, 2016 - Week 41





ADVISORY COMMITTEE ON IMMUNIZATION PRACTICES MEETING UPDATE

An influenza surveillance update was given during the ACIP meeting on October 20. Here is a breakdown of specimens sent to public health laboratories between May 22 and September 30, 2016:

A(H1N1)pdm09: All 8 specimens were antigenically characterized as A/California/7/2009-like

A(H3N2): Out of 53 specimens, 44 were antigenically characterized as A/Hong Kong/4801/2014-like, and 8 out of 9 other specimens were more closely related to A/Switzerland/9715293/2013

B/Victoria: All 26 viruses antigenically characterized as B/Brisbane/60/2008-like

B/Yamagata: All 33 viruses were antigenically characterized as B/Phuket/3073/2013-like

[Slides](#) from the meeting will be posted in the upcoming weeks.

CDC'S FLU MODULE: YOU CALL THE SHOTS

[You Call the Shots](#) is an interactive, web-based immunization training course that provides free CE's to nurses and other health care professionals. It consists of a series of modules discussing vaccine-preventable diseases and explaining the latest recommendations for vaccine use. The influenza module was updated in October 2016. You can assess and take the module for free [here](#).

INDIAN HEALTH SERVICE NO REQUIRES SEASONAL INFLUENZA VACCINATION FOR ITS CIVILIAN HEALTHCARE PERSONNEL

The Indian Health Service (IHS), an agency within the Department of Health and Human Services that provides healthcare to American Indians and Alaska Natives, issued a policy statement requiring mandatory seasonal influenza immunizations for civilian health personnel. This policy applies to all Civil Service employees, contract staff, temporary employees, students, and volunteers. To read the entire policy see: [IHS Flu Vaccination Policy](#).

CDC DEVELOPS EDUCATIONAL PIECE ABOUT THE NEW FLU RECOMMENDATIONS

CDC recently released [Only Flu Shots This Year](#), a resource which clarifies the use of injectable vaccine only this year and provides reasons for getting children a flu shot.

Children's Hospital of Philadelphia also recently posted [What You Should Know- Lessons from FluMist](#), a Parents PACK (Possessing, Accessing and Communicating Knowledge about Vaccines) resource. These are great resources to share with parents who have questions about the flu vaccine.

INFLUENZA-RELATED JOURNAL ARTICLES

- [Influenza Vaccine for Prevention of Myocardial Infarction](#)
 - Estimate of efficacy of influenza vaccine in preventing AMI range from 15% to 45%
- [Ubiquitin in influenza virus entry and innate immunity](#)
- [Complete genome sequence of the first H5N1 avian influenza virus isolated from chickens in Lebanon in 2016](#)

OTHER INFLUENZA-RELATED NEWS

- [Health district reports first flu-related death in Clark County, Nevada](#)
- [Unvaccinated adults cost US \\$7.1 billion](#)
- [Lollapalooza aims to increase vaccinations on campus on Oct. 11](#)
- [Routine influenza vaccination at EDs reduces cost](#)

AVIAN INFLUENZA INTERNATIONAL NEWS

- [Complete genome sequence of the first H5N1 avian influenza virus isolated from chickens in Lebanon in 2016](#)
- [Delhi zoo shut down after bird flu deaths](#)
- [Avian influenza hits India: 24 bird deaths and no human cases](#)

FLU WEBSITES

www.michigan.gov/flu
www.cdc.gov/flu
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.

MDHHS Contributors

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