



MI Flu Focus

Influenza Surveillance Updates

Bureaus of Epidemiology and Laboratories



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Influenza Surveillance Report for the Week Ending May 13, 2017

MI's Influenza Activity Level:
Sporadic

Updates of Interest: Michigan's Adult Immunization Summit is scheduled for June 14, 2017 from 8:30am-4:00pm at the Lansing Center in Lansing, MI. For more information about the Summit and registration details, please see FluBytes on page 4.

Sentinel Provider Surveillance

The proportion of visits due to influenza-like illness (ILI) increased to 1.2% overall, which is below the regional baseline of 1.9%. A total of 106 patient visits due to ILI were reported out of 8,553 office visits. Please note: These rates may change as additional reports are received.

Number of Reports by Region

(26 total):

- C (8)
- N (2)
- SE (12)
- SW (4)

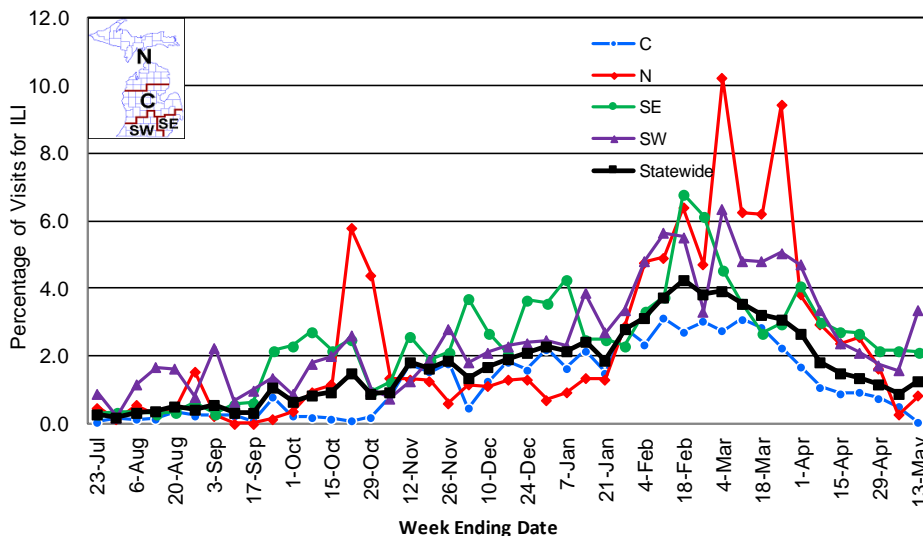
National Surveillance: In the United States, 1.3% of outpatient visits were due to influenza-like illness, which is below the national baseline of 2.2%.

Become a Sentinel Provider!

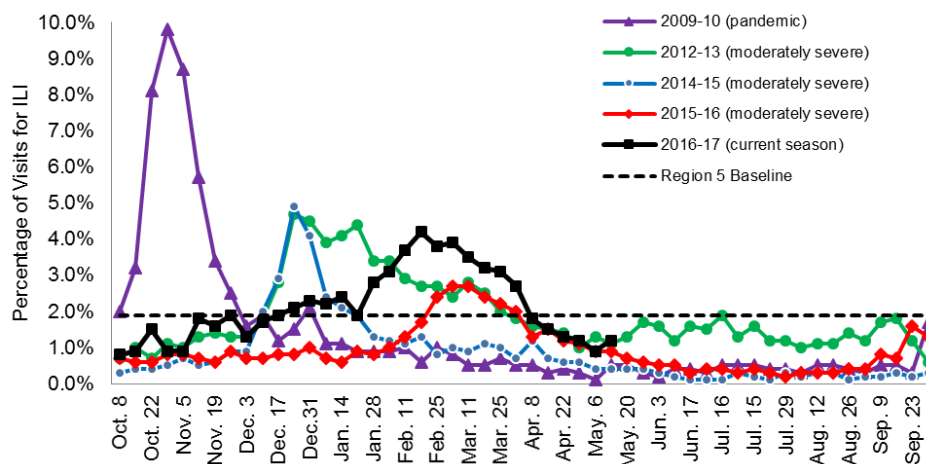
As part of pandemic influenza surveillance, CDC and MDHHS highly encourage year-round participation from all sentinel providers. New practices are encouraged to join the sentinel surveillance program today! Contact Jalyn Ingalls (IngallsJ@michigan.gov) for more information.

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 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-related 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. During the surveillance period, there were **66 pediatric and 570 adult** influenza-related hospitalizations reported in the catchment area for the 2016-2017 season.

The MDHHS Influenza Sentinel Hospital Network monitors influenza-related admissions reported voluntarily by hospitals statewide, with two facilities (C, 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.

Age Group	New Flu Hospitalizations Reported	Total 2016-17 Flu Hospitalizations Reported to Date
0-4 years	0	39 (23N, 1C, 8SE, 7SW)
5-17 years	0	52 (33N, 1C, 10SE, 8SW)
18-49 years	0	129 (40N, 1C, 74SE, 14SW)
50-64 years	0	218 (53N, 1C, 135SE, 29SW)
65 years & older	0	729 (147N, 10C, 495SE, 77SW)
Total	0	1167 (296N, 14C, 722SE, 135SW)

Influenza-associated Pediatric Mortality

No new deaths were reported to MDHHS for the week ending May 13, 2017. A total of 5 influenza-associated pediatric deaths in Michigan have been reported thus far for the 2016-17 season. Four of the children tested positive for Influenza B, and one tested positive for Influenza A/H3. Nationally, 92 influenza-associated pediatric deaths have been reported thus far for the 2016-17 flu season.

Laboratory Surveillance

MDHHS Bureau of Laboratories reported 8 new positive influenza results (1 A/H1 and 7 flu B) during this time period. A total of 649 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	1	1	1	3	6	2 (A/CALIFORNIA/07/2009-LIKE (H1N1)pdm09)	
Influenza A/H3	118	26	119	181	444	11 (A/HONG KONG/4801/2014-LIKE)	0 / 95
Influenza B	66	11	48	74	199	4 (B/PHUKET/3073/2013-LIKE) 9 (B/BRISBANE/60/2008-LIKE)	
A / unsubtypeable							
LAIV recovery							

In addition, 10 sentinel clinical labs (2SE, 2SW, 5C, 1N) reported influenza testing results. Three (3) labs (SE, C) reported influenza A activity at very low or sporadic levels. Five (5) labs (SE, SW, C, N) reported influenza B activity at very low or sporadic levels with a continuing downward trend. Slightly more influenza B continues to be seen overall. Three (3) labs (SE, SW, C) reported low Parainfluenza activity. Four (4) labs (SE, SW, C) reported RSV activity at low or sporadic levels. One lab (SW) reported sporadic Adenovirus activity. Two labs (SE, SW) reported low hMPV activity. Overall testing volumes continue to drop further with most sites at or nearing the low range.

Congregate Setting Outbreaks of Viral Respiratory Illness

There was 1 new respiratory facility outbreak (SW) 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	3	4		3	10
Long-term Care / Assisted Living Facility	30	1	26	43	100
Healthcare Facility	3		4	1	8
Daycare			1	2	3
Homeless Shelter			1		1
Total	36	5	32	49	122

Michigan Disease Surveillance System

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

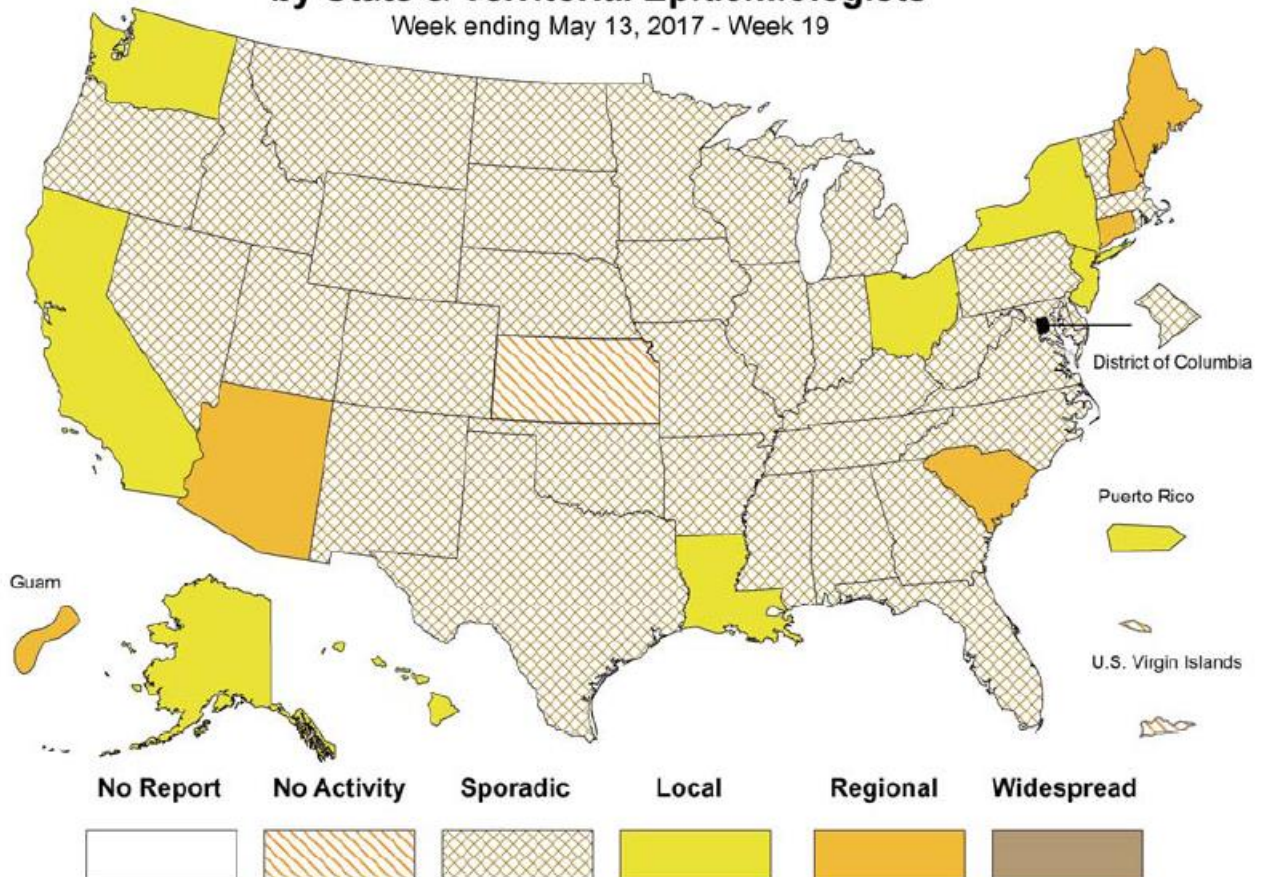
Emergency Department Surveillance

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

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

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending May 13, 2017 - Week 19





CDC'S NONPHARMACEUTICAL INTERVENTIONS WEBPAGE

The Centers for Disease Control and Prevention (CDC) has updated their [Nonpharmaceutical Interventions \(NPIs\) webpage](#), which provides decision makers, planners and public health professionals with educational tools, resources and pandemic planning guides, checklists, and research about types of NPIs. NPIs are actions, apart from getting vaccinated and taking medicine, which people can take to help slow the spread of illness, like pandemic influenza.

CDC YELLOW BOOK 2018

CDC has fully revised and updated the [CDC Yellow book 2018: Health Information for International Travel](#). This book provides the U.S. government's most current health guidelines and information for clinicians advising international travelers, including pretravel vaccine recommendations and an update to include the new cholera vaccine recommendations. The Yellow Book is available online, or for sale from [Oxford University Press](#).

MICHIGAN'S ADULT IMMUNIZATION SUMMIT

Michigan's Adult Immunization Summit is a one-day conference that will provide participants with a variety of practice-management tools, techniques and information that will help assure that all of their adult patients are fully immunized. The conference is scheduled for June 14, 2017 at the Lansing Center in Lansing, Michigan from 8:30am to 4:00pm. If you have not already registered for the Summit, please [register today!](#) The Summit is approved for credits from multiple accrediting organizations. For more information about the Summit, or to see an agenda, please contact Jackie Chandler at ChandlerJ3@Michigan.gov.

FLU VACCINATION PROMOTION MATERIALS

The National Influenza Vaccination Disparities Partnership has created a [tip sheet](#) that provides a step-by-step instructions for planning a flu vaccination promotion event, as well as a list of numerous resources that can be used during the event, such as sample social media posts and print materials. Also, the CDC has created a "[Frequently Asked Flu Questions 2017-2018 Influenza Season](#)" webpage that can be used to start preparing flu vaccination promotional events for the 2017-2018 flu season!

INFLUENZA-RELATED JOURNAL ARTICLES

- [Working with influenza-like illness: Presenteeism among US health care personnel during the 2014-2015 influenza season](#) (Summary available)
 - 40% of surveyed US health care workers reported attending work with influenza-like illness
 - By work setting, hospital-based personnel were the most likely to work with ILI
- [Immune plasma for the treatment of severe influenza: An open-label, multicentre, phase 2 randomised study](#)
- [Pandemic influenza preparedness among child care center directors in 2008 and 2016](#)
 - Only 7% of directors had taken concrete actions to prepare their centers
- [Avian influenza A/H7N9 risk perception, information trust, and adoption of protective behaviors among poultry farmers in Jiangsu Province, China](#)

OTHER INFLUENZA-RELATED NEWS

- [WHO Global Flu Update: Flu Activity increasing in Southern Hemisphere](#)
- [CDC: Most children don't get full benefit of flu vaccine](#)
- [How Twitter can predict flu outbreaks 6 weeks in advance](#)
- [US falling short on bird flu preparation, report finds](#)
- [USDA has made progress in protecting against avian influenza, evaluation still needed](#)

AVIAN INFLUENZA INTERNATIONAL NEWS

- [CHP investigates case of severe pediatric influenza A infection](#)
- [China bird flu: 1st H7N9 avian flu case reported in Shanxi Province](#)

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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