



Michigan Flu Focus

Weekly Influenza Surveillance Report



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October 25, 2019

Vol. 17; No. 03

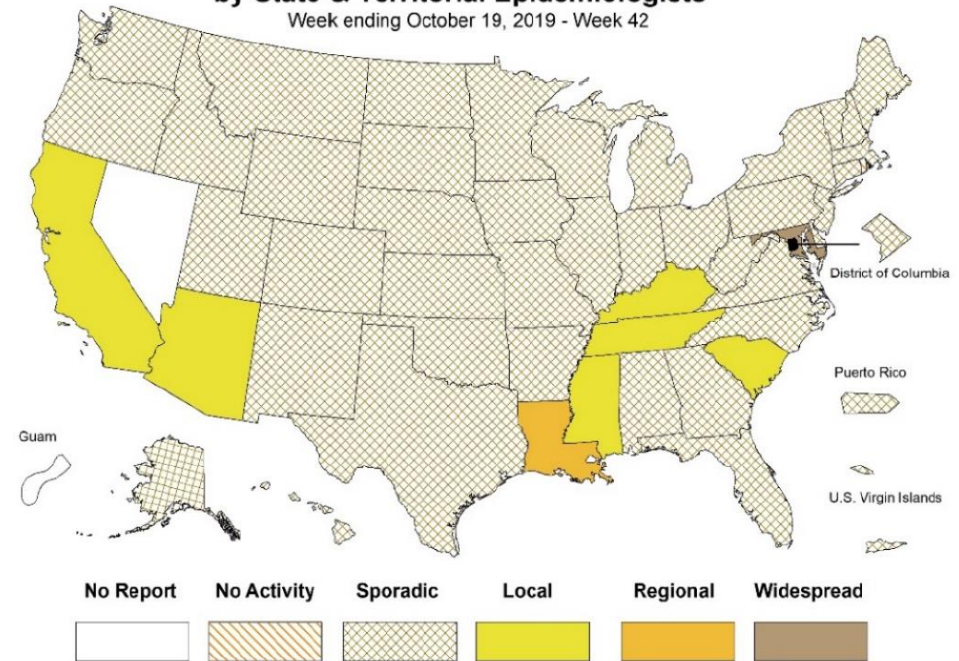
Week Ending October 19, 2019 | WEEK 42

Michigan Influenza Activity
No Activity
<u>Sporadic</u>
Local
Regional
Widespread

*Clicking on the current activity level will direct you to the CDC webpage defining each activity level for the geographic spread of influenza

Weekly Influenza Activity Estimates Reported by State & Territorial Epidemiologists*

Week ending October 19, 2019 - Week 42



Updates of Interest

The Michigan Department of Health and Human Services have recently updated the Influenza Guidance documents for the 2019-2020 influenza season. These documents will provide guidance on influenza surveillance, reporting, and testing for Local Health Departments, Healthcare Providers, and Laboratories.

Please visit www.michigan.gov/CDinfo for more information.

Influenza-associated Pediatric Mortality

Nationally, two (2) influenza-associated pediatric deaths have been reported thus far for the 2019-2020 flu season. No (0) pediatric influenza deaths have been confirmed by MDHHS for the 2018-2019 flu season.

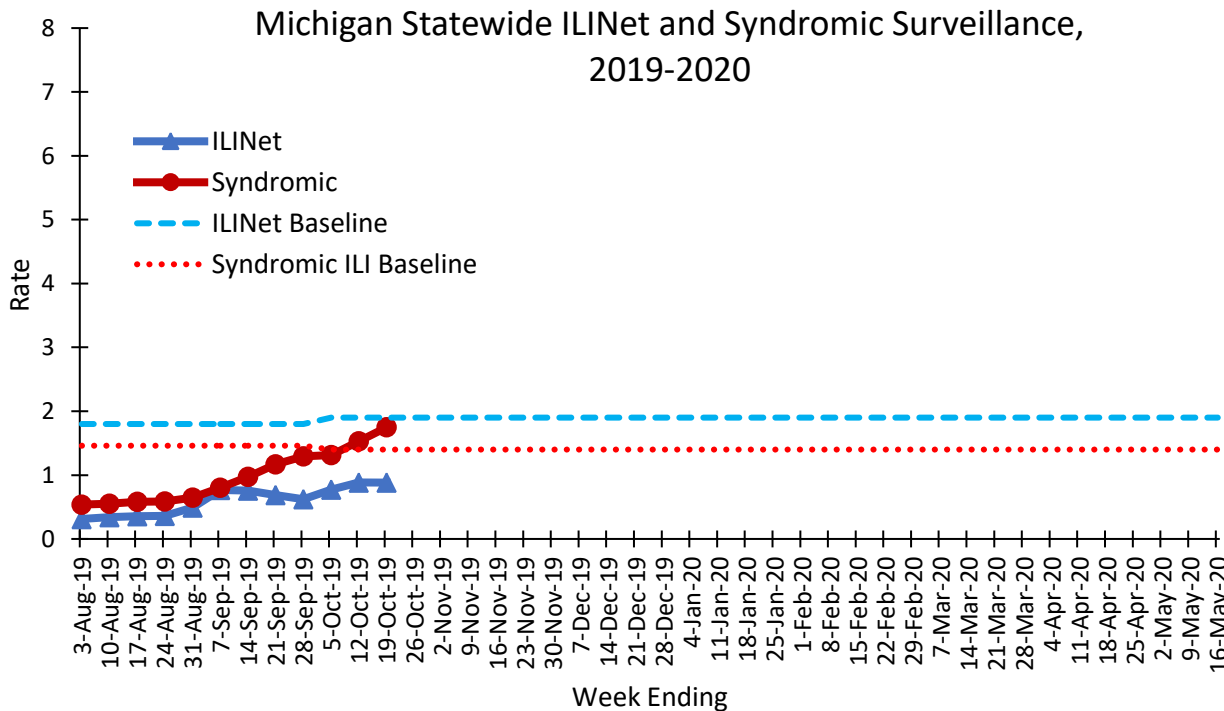
U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

Michigan participates in ILINet, a collaborative effort between the CDC, state and local health departments, and volunteer sentinel clinicians as part of Michigan’s influenza surveillance. ILINet provides data on the total number outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI). For this system, ILI is defined as fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat without a known cause other than influenza.

Number of Reports and ILI % by Region in Michigan during this time period:

Region	C	N	SE	SW
No. of Reporters Total (25)	7	4	11	3
ILI %	0.4	1.3	1.0	1.2

Data is provisional and may change as additional reports are received.



Michigan ILI Activity

0.9%
(Last week: 0.9%)
Regional Baseline*: 1.9%

A total of 89 patient visits due to ILI were reported out of 10,092 office visits during this period.

*Regional baseline is determined by calculating the mean percentage of patient visits due to ILI during non-influenza weeks for the previous three seasons and adding two standard deviations

National Surveillance

In the United States, **1.7%** of outpatient visits were due to ILI. (Last week: 1.5%)
This is **below** the national baseline of 2.4%

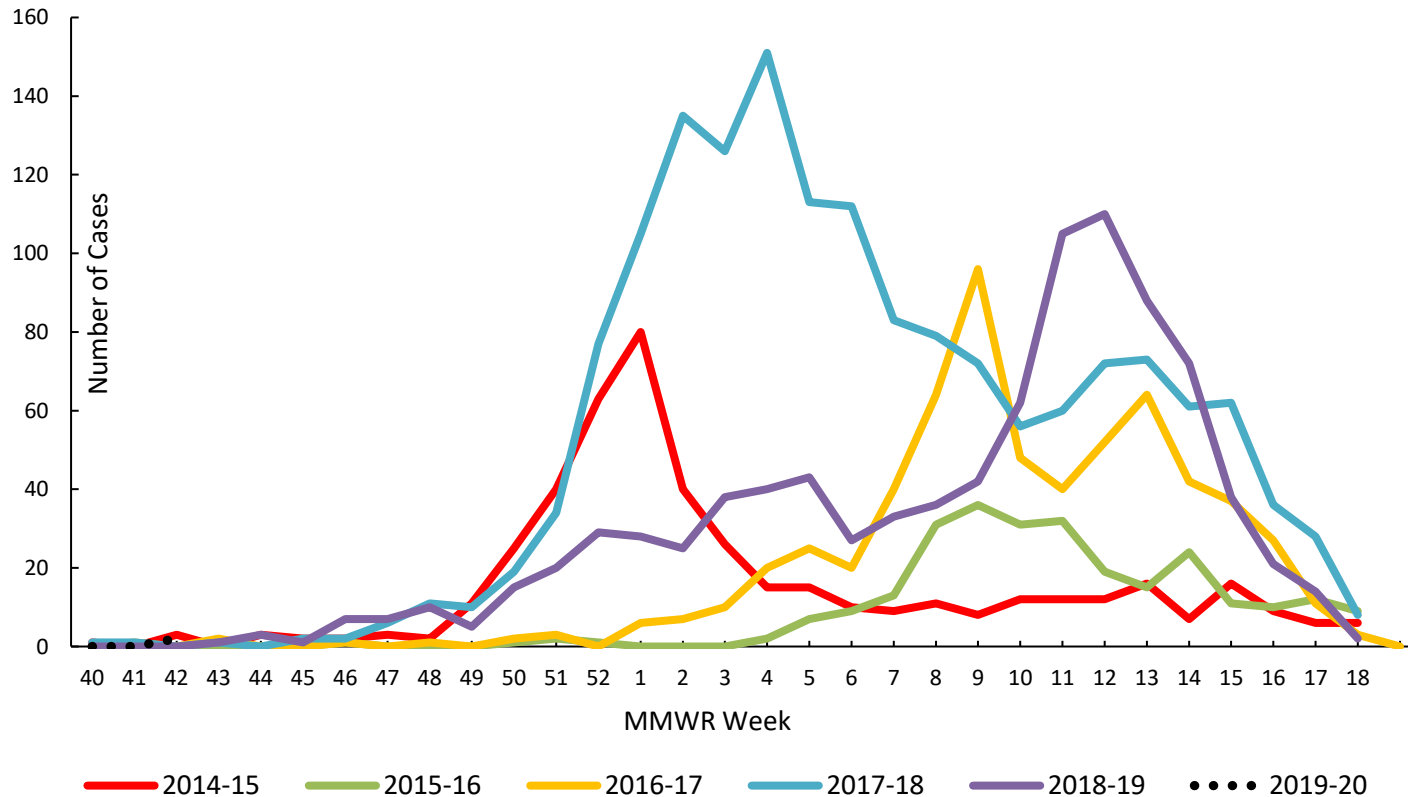
Become an ILINET provider!
Contact Shelly Doebler at DoeblerM@michigan.gov

Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1st through April 30th each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were **two** (2) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period.

Total IHSP Cases, 2014-15 through 2019-2020



Washtenaw County was added for the 2017-2018 season

Join the Influenza Sentinel Hospital Network (ISHN)!

What is it? ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide flu surveillance

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide is aggregated by region and can assist providers and public health in recognizing changes in the age or geographic distribution of flu in this population.

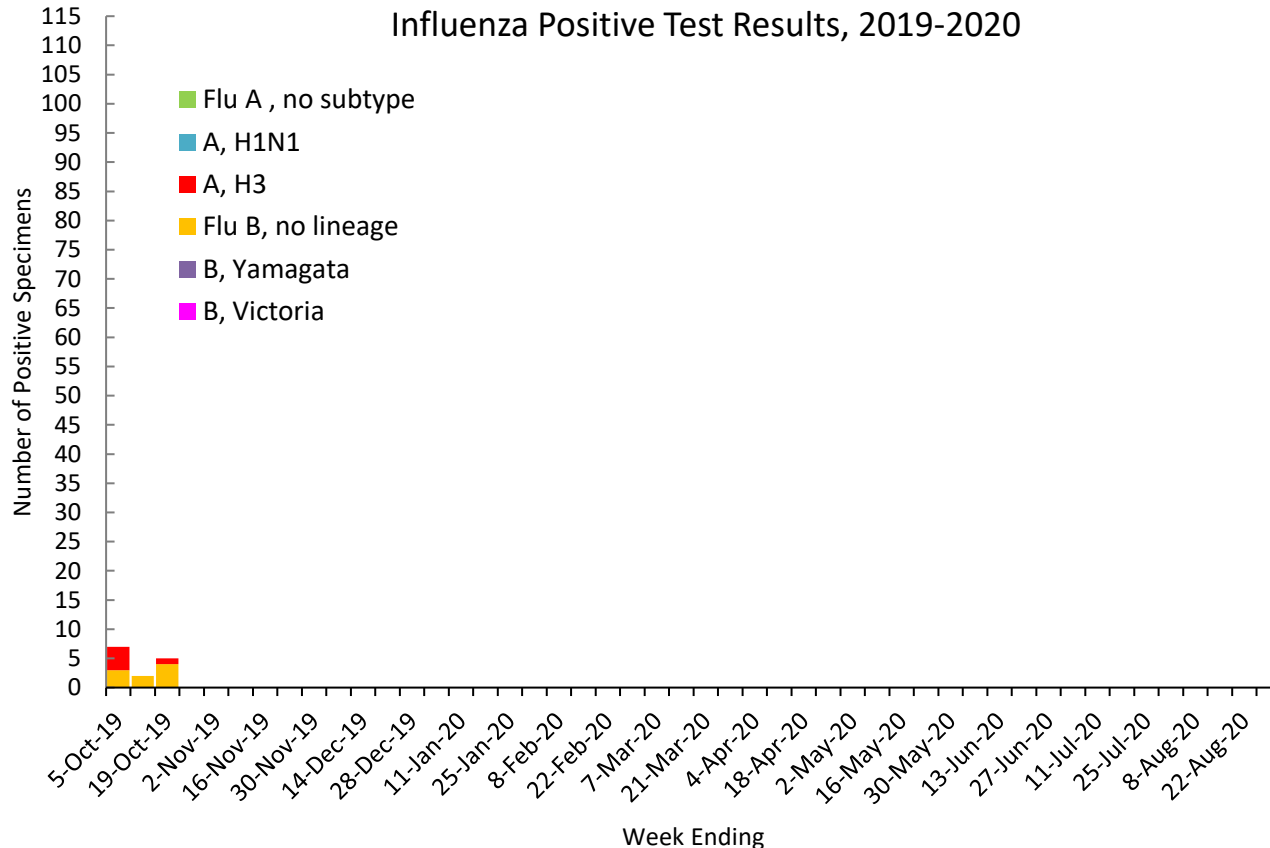
If your facility is interested in participating or would like more details, please contact Sue Kim (KimS2@michigan.gov)

There were 5 new positive influenza results (1C, 0N, 4SE, 0SW) reported by the MDHHS Bureau of Laboratories (BOL) during this time period.

of Positive Respiratory Virus Results by Region

	C	N	SE	SW	Total
H1N1	0	0	0	0	0
H3N2	1	0	3	1	5
Infl B	1	0	6	2	9
Total	2	0	9	3	14

Influenza Positive Test Results, 2019-2020



Note: Flu B subtyping will be reported based on MDHHS BOL testing runs and will be backtracked into this graph
 Latest MDHHS BOL Flu B lineage determination run: *September 23, 2019*

Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Twelves (12) sentinel clinical labs (3SE, 2SW, 6C, 1N) reported during this week

SE Region	
Influenza A:	low
Influenza B:	low
Parainfluenza:	some increases
RSV:	low
Adenovirus:	low
hMPV:	low
Central Region	
Influenza A:	no activity - sporadic
Influenza B:	no activity - sporadic
Parainfluenza:	low
RSV:	no activity - sporadic
Adenovirus:	low
hMPV:	low
SW Region	
Influenza A:	no activity - sporadic
Influenza B:	no activity
Parainfluenza:	low
RSV:	low
Adenovirus:	low
hMPV:	sporadic
North Region	
Influenza A:	no activity
Influenza B:	no activity
Parainfluenza:	no data available
RSV:	no data available
Adenovirus:	no data available
hMPV:	no data available

There were 1 new respiratory outbreak (0C, 0N, 0SE, 1SW) reported to MDHHS during this time period. Respiratory outbreaks for the 2019-2020 season are listed in the table below.

of Congregate Setting Outbreaks by Region

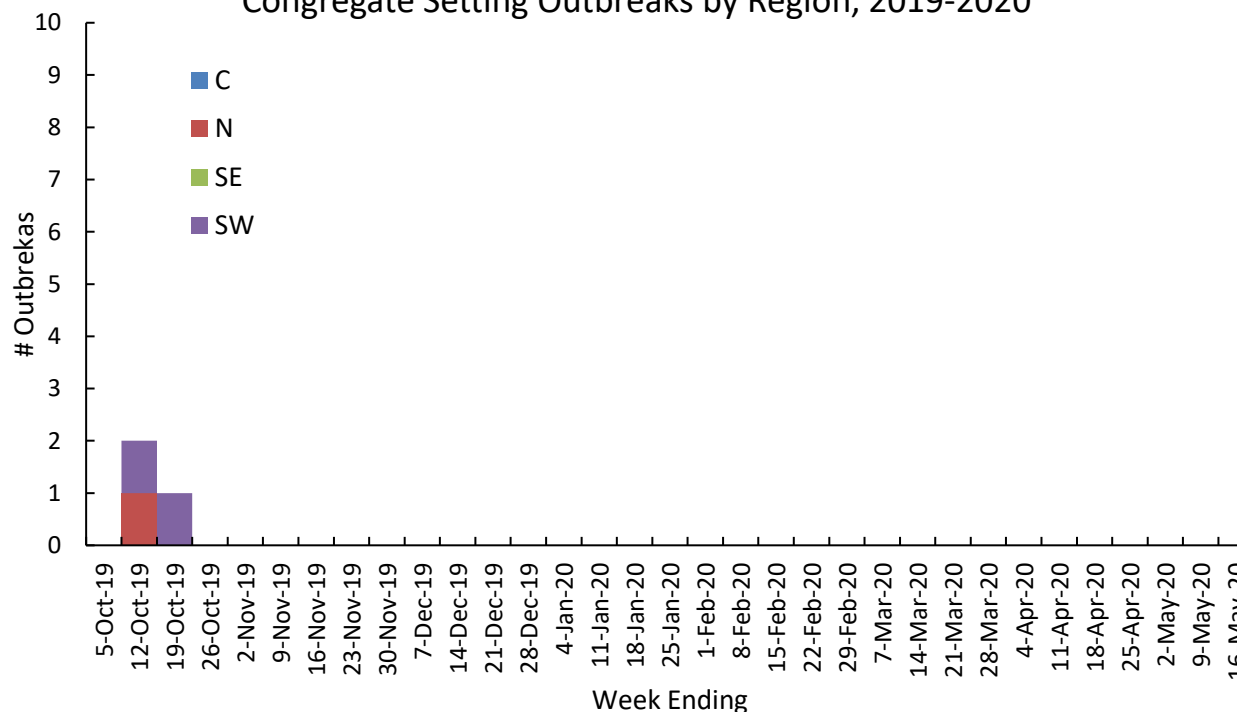
Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	0	0	0	0	0
Long-term Care / Assisted Living Facility	0	1	0	2	3
Healthcare Facility	0	0	0	0	0
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	0	0	0	0	0
Other	0	0	0	0	0
Total	0	1	0	2	3

Did you know?

Congregate setting outbreaks of viral respiratory illnesses are required to be reported to your local health department? See:

- [Influenza Guidance for Healthcare Providers](#)
- [Guideline for influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

Congregate Setting Outbreaks by Region, 2019-2020



The Michigan Component of the U.S Outpatient Influenza-like Illness Surveillance Network (ILINet) is Recruiting!

ILINet is a voluntary surveillance program that collects data on **flu-like illness** at outpatient clinics around the state. **Outpatient flu sentinel providers may be healthcare clinicians from any specialty** and nearly any setting (e.g. private practice, emergency room, urgent care) who are likely to see patients with flu-like illness.

Influenza-like illness cases do not have to be laboratory confirmed and current providers state the reporting process typically takes **less than 30 minutes!**

Benefits of participating in the ILINet program include:

- Weekly feedback reports summarizing your site's data, regional, state, and national flu data
- **Free** respiratory virus testing at MDHHS Bureau of labs for ~11 specimens per year
- Regularly reporting sentinels receive **2 free registrations** to an MDHHS Fall Regional Immunization Conference

We need sentinel providers in all these counties!

Alcona	Alger	Alpena	Antrim	Baraga	Benzie
Branch	Charlevoix	Chippewa	Clinton	Clare	Crawford
Delta	Detroit	Dickinson	Emmet	Gladwin	Gogebic
Grand Traverse	Hillsdale	Huron	Iosco	Iron	Isabella
Kalkaska	Keweenaw	Lake	Leelanau	Luce	Mackinac
Manistee	Menominee	Missaukee	Monroe	Montmorency	Ogemaw
Oscoda	Ontonagon	Otsego	Saginaw	Sanilac	Schoolcraft

Influenza-Related Articles/News

- [Flu Antiviral Approved for High-Risk Individuals](#)
- [COCA Webinar: Influenza Prevention in Children](#)
- [Prevention and Control of Seasonal Influenza with Vaccines: Recommendations of the Advisory Committee on Immunization Practices – US 2019-2020 Flu Season](#)
- [Studies Show Flu Vaccines Reduce Risk of Hospitalization and Death](#)

Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [CDC FluView Weekly Report](#)
- [NFID Flu and Chronic Health Conditions Toolkit](#)
- [CDC Healthcare Professionals Flu Toolkit](#)

View Michigan Flu Focus Report archives [here](#)

Influenza Vaccine Updates

[Interim Results Promising for Universal Flu Vaccine](#)

A [phase 1 clinical trial](#) that assessed different chimeric hemagglutinin (HA)-based universal flu vaccine regimens found that **all induced a cross-reactive antibody response** that targeted the **stalk** region of the influenza virus.

The stalk portion of the HA protein is more conserved than the head portion, which is where most universal flu vaccine research is focused.

Florian Krammer, PhD, one of the study's coauthors stated that the vaccine **produces a broad antibody response** to not only currently circulating **human influenza viruses** but against **avian** and **bat** subtypes as well.

More results are expected when the study is completed at the end of 2019.

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