



# Michigan Flu Focus

Weekly Influenza Surveillance Report



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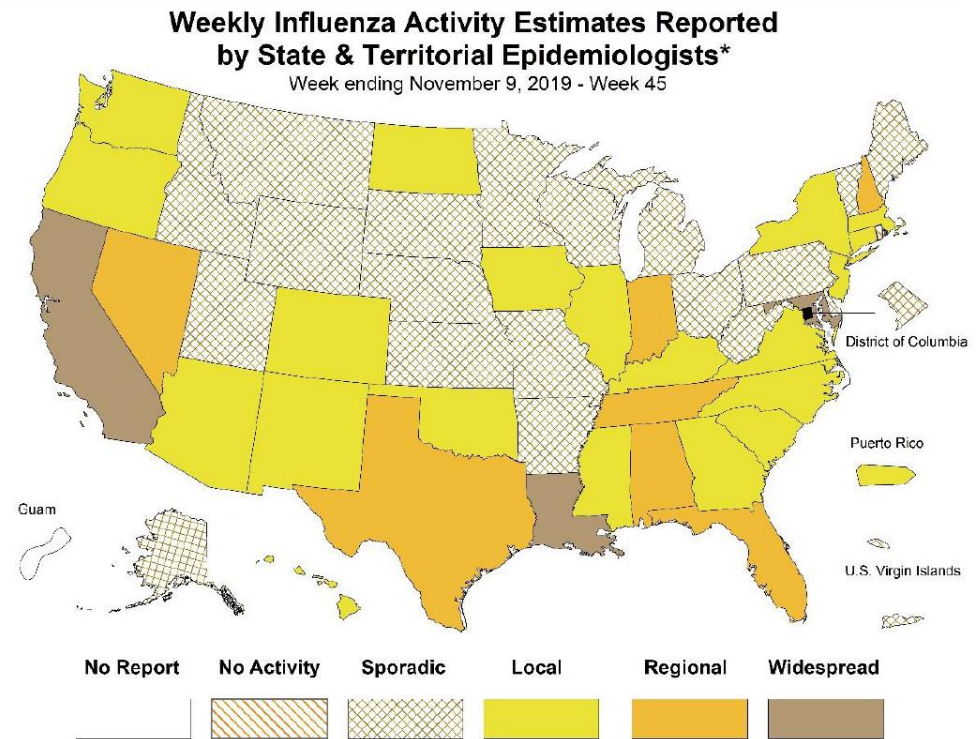
November 15, 2019

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**Week Ending November 9, 2019 | WEEK 45**

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



## Updates of Interest

The Michigan Department of Health and Human Services have 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](http://www.michigan.gov/CDinfo) for more information.

## Influenza-associated Pediatric Mortality

Nationally, three (3) 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 2019-2020 flu season.

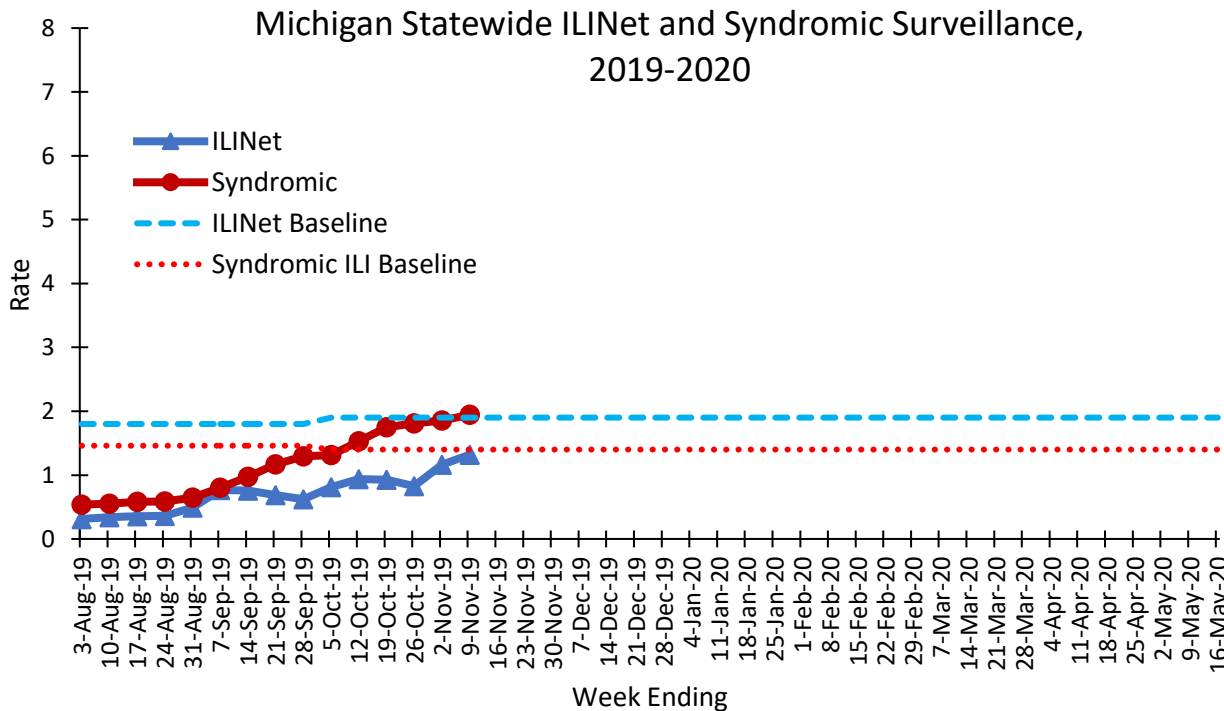
## U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

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 <b>Total (31)</b>	8	6	11	6
ILI %	0.6	1.6	2.2	1.3

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



### Michigan ILI Activity

**1.3%**  
(Last week: 1.2%)  
Regional Baseline\*: 1.9%

A total of 165 patient visits due to ILI were reported out of 12,507 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, **2.3%** of outpatient visits were due to ILI. (Last week: 1.9%)  
This is **below** the national baseline of 2.4%

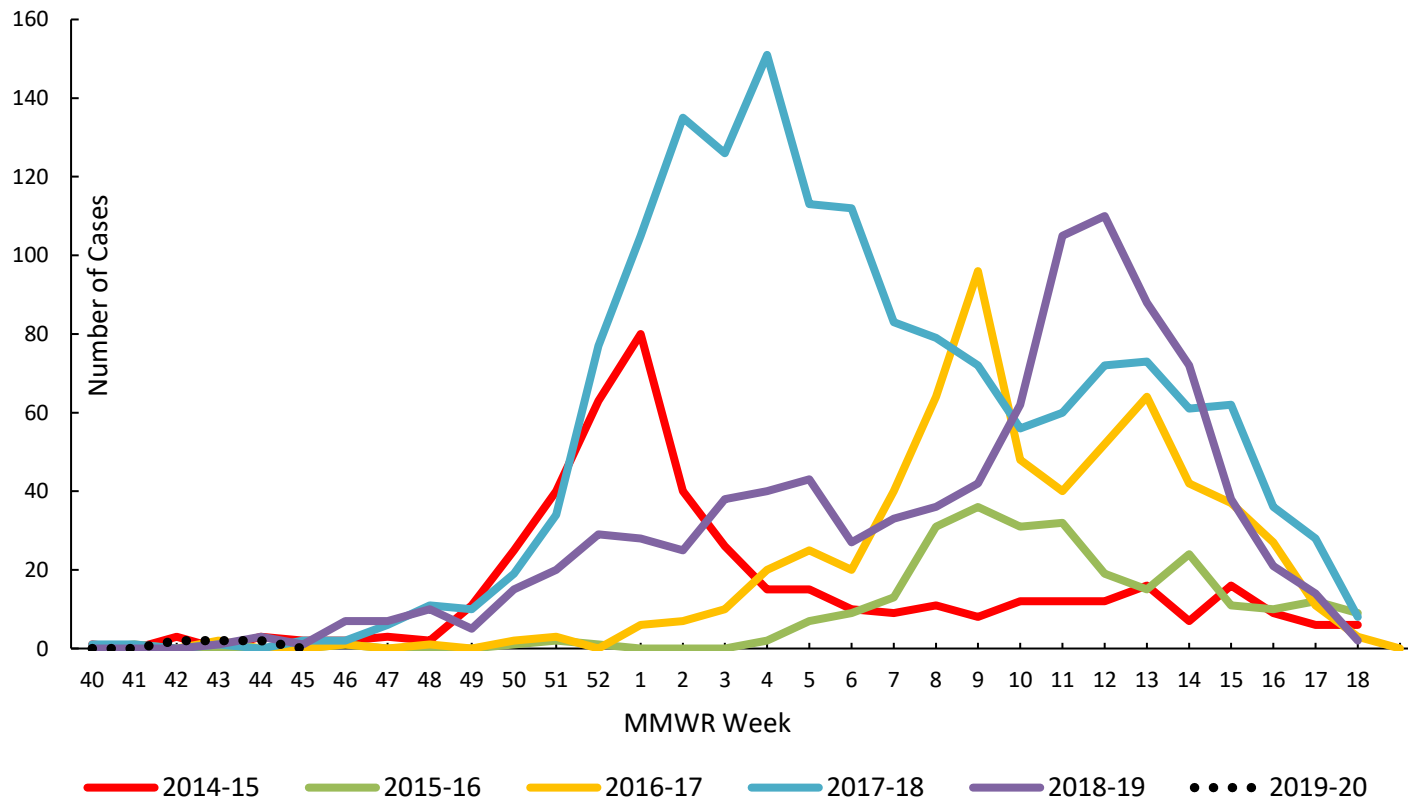
**Become an ILINET provider!**  
Contact Shelly Doebler at [DoeblerM@michigan.gov](mailto:DoeblerM@michigan.gov)

## 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 1<sup>st</sup> through April 30<sup>th</sup> each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were **no** (0) 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.

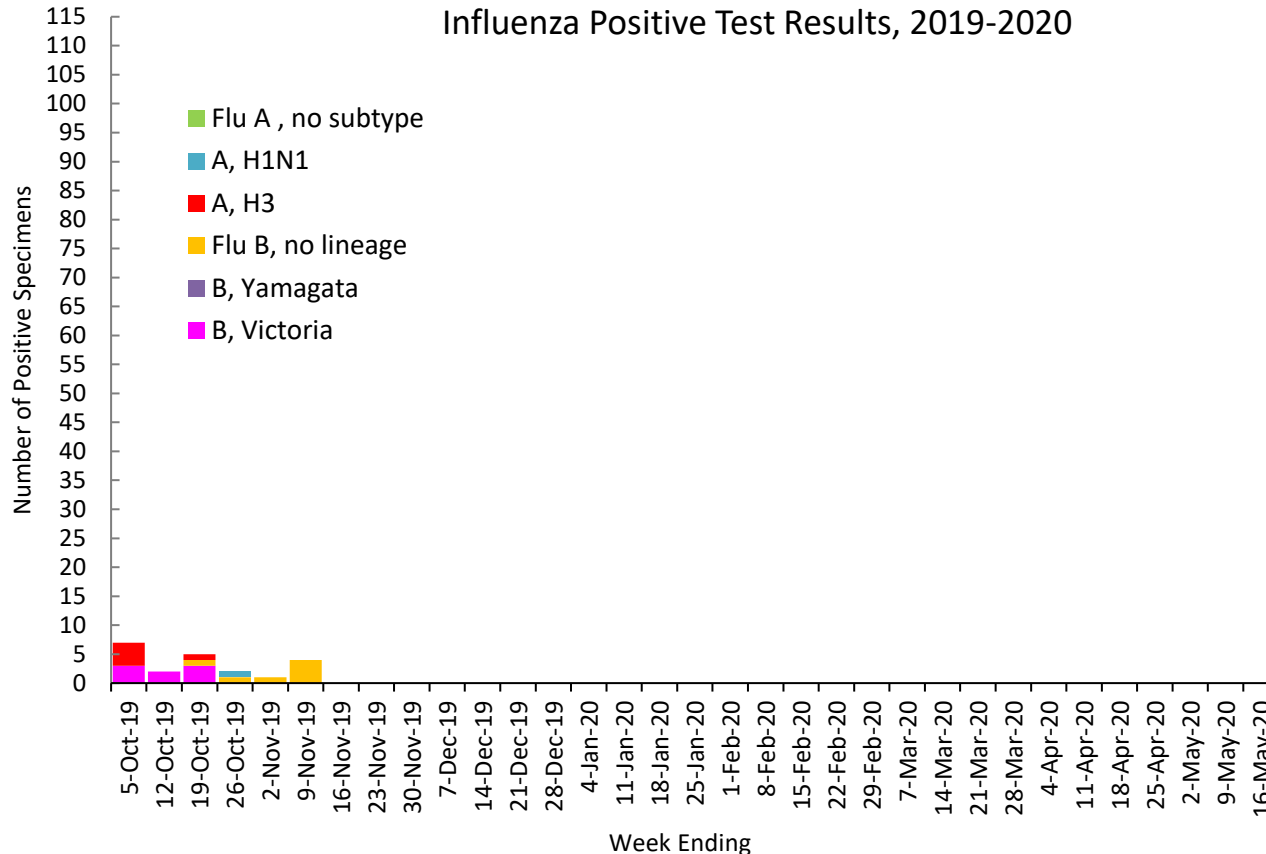
If your facility is interested in participating or would like more details, please contact Sue Kim ([KimS2@michigan.gov](mailto:KimS2@michigan.gov))

There were 4 new positive influenza results (2C, 0N, 2SE, 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	1	0	0	0	1
H3N2	1	0	3	1	5
Infl B	3	0	10	2	15
<b>Total</b>	<b>5</b>	<b>0</b>	<b>13</b>	<b>3</b>	<b>21</b>

**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: *October 30, 2019*

## Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Ten (10) sentinel clinical labs (3SE, 2SW, 4C, 1N) reported during this week

SE Region	
Influenza A:	low
Influenza B:	sporadic – low
Parainfluenza:	modestly elevated; increasing
RSV:	slightly elevated
Adenovirus:	slightly elevated; increasing
hMPV:	low
Central Region	
Influenza A:	no activity – sporadic
Influenza B:	no activity – sporadic
Parainfluenza:	low – slightly elevated
RSV:	sporadic – low
Adenovirus:	low
hMPV:	low
SW Region	
Influenza A:	sporadic
Influenza B:	sporadic
Parainfluenza:	low – slightly increased
RSV:	low
Adenovirus:	low
hMPV:	sporadic – low
North Region	
Influenza A:	no activity
Influenza B:	no activity
Parainfluenza:	low
RSV:	no data available
Adenovirus:	low
hMPV:	no data available

There were no (0) new respiratory outbreaks (OC, ON, OSE, OSW) 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**

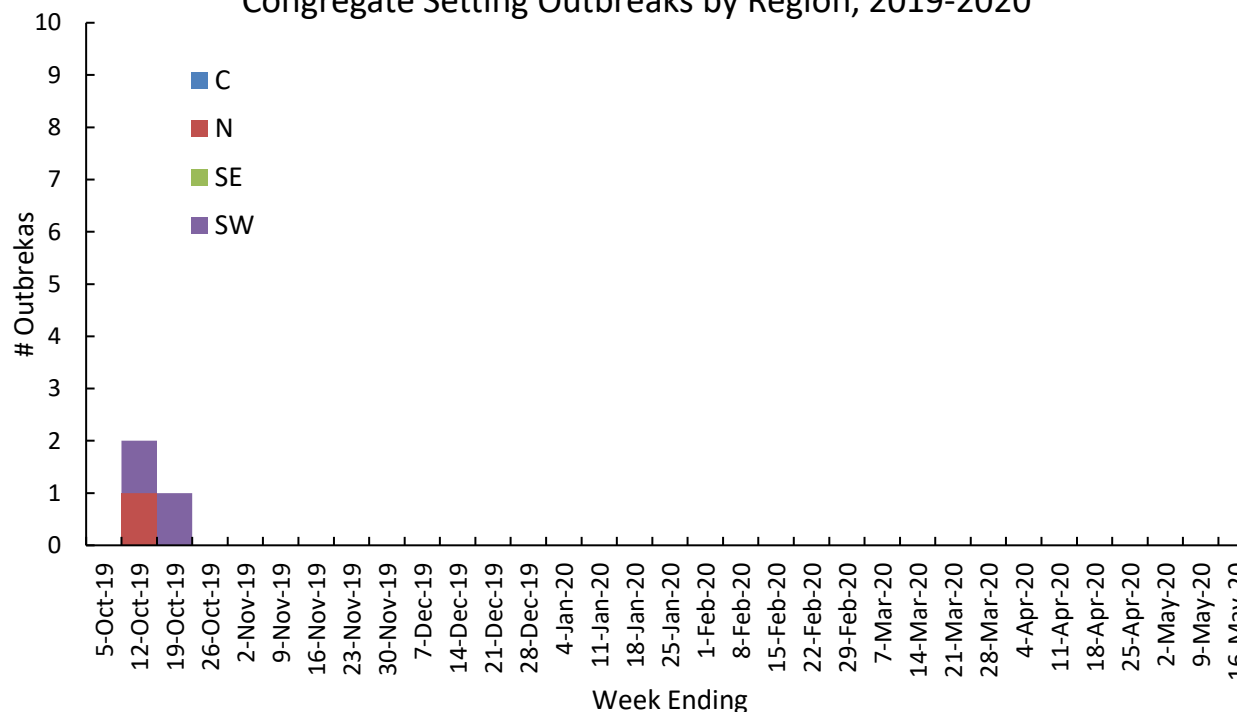
Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	0	0	0	0	0
Long-term Care / Assisted Living Facility	0	1	0	2	3
Healthcare Facility	0	0	0	0	0
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	0	0	0	0	0
Other	0	0	0	0	0
<b>Total</b>	0	1	0	2	<b>3</b>

### 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**



## New Study: More Evidence that Maternal Flu Vaccination Protects Infants for the First Months of Life

A [recent study](#) published in the Journal of Infectious Diseases adds to the evidence that immunizing pregnant women helps reduce lab-confirmed flu and hospitalizations in babies younger than 6 months old.

The study, from a team at Public Health England, utilized data from a clinical practice database and a pregnancy registry allowing researchers to assess pregnancy timing and maternal flu vaccine uptake.

Goal: Reassess the effectiveness of flu vaccination in pregnant women to prevent flu and flu-related hospitalizations in infants less than 6 months of age during the 2013-14 and 2014-15 flu seasons

Results:

- Overall vaccine effectiveness (VE) 2013-14 flu season – 66% (95% CI: 18% - 64%)
- Overall VE 2014-15 flu season – 50% (95% CI: 11% - 72%)
- VE against flu hospitalizations 2013-14 flu season: 61% (95% CI: -5% - 85%)
- VE against flu hospitalizations 2014-15 flu season: 50% (95% CI: 6% - 73%)

These results support previous studies conducted in Bangladesh and South Africa and should encourage providers to continue to offer influenza vaccine to pregnant women. Additionally, every person aged 6 months and older should get their flu vaccine every year especially pregnant women.

## Influenza-Related Articles/News

- [US Flu Activity Rises: Influenza B Viruses Slightly Predominate](#)
- [Study: Newly Identified Flu Antibodies Could Improve Vaccines](#)
- [AAP Encourages Strong Provider Recommendation for Flu Shot](#)
- [Studies Show Flu Vaccines Reduce Risk of Hospitalization and Death](#)
- [Flu Rise in Northern Hemisphere](#)
- [American Lung Association- My Shot Campaign](#)

## 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](#)
- [Immunization Action Coalition: Ask the Experts- Flu](#)

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

## Influenza Vaccine Updates

### [FDA approves quadrivalent high-dose flu vaccine for seniors](#)

In a [press release](#) on November 4<sup>th</sup>, Sanofi announced that the US Food and Drug Administration (FDA) has approved licensure for its **high dose quadrivalent flu vaccine (Fluzone)**.

The trivalent high dose influenza vaccine for adults 65 years and older was approved and has been available since 2009. A phase 3 immunogenicity and safety study indicated that the quadrivalent vaccine induces a better immune response compared to the trivalent vaccine.

Sanofi expects the quadrivalent high dose flu vaccine to be available for the 2020-2021 flu season.

To find out more about the high-dose influenza vaccine for adults 65 years and older click [here](#).

## MDHHS Contributors

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