



# Michigan Flu Focus

Weekly Influenza Surveillance Report



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## Michigan 2020-2021 Season Overview

**Note: Most systems were impacted by the COVID-19 pandemic and should be interpreted with caution.**

Geographic Spread – reporting for this [system](#) was suspended for the 2020-2021 season due to the impact of the COVID-19 pandemic on ILI activity.

Outbreaks – zero respiratory outbreaks were reported (excludes COVID-19-associated outbreaks).

Sentinel Provider Surveillance (ILINet) – provisional data shows ILI activity remained below baseline all season.

Laboratory – 6 flu positive results (1 flu A, 5 flu B) were reported by the MDHHS Bureau of Laboratories.

Hospitalizations – 10 influenza-associated hospitalizations were reported in the catchment area.

Pediatric flu mortality – zero pediatric influenza deaths have been confirmed by MDHHS.

## Seasonal Influenza Vaccination Coverage

Michigan's goal is to vaccinate more than 4.3 million residents during the 2020-2021 flu season.

As of March 27, 2021, there have been **3,434,888** doses administered (**79.73%** towards goal) for the 2020-2021 flu season.

Please visit the Flu Dashboard at [www.michigan.gov/flu](http://www.michigan.gov/flu) for more information.

## Flu Bytes

### Clinical Trial Starts for Universal Influenza Vaccine Candidate

On June 1, 2021, the National Institutes of Health (NIH) launched [a news release](#) discussing a new clinical trial on a universal influenza vaccine candidate.

Phase 1 of the trial is set to study the safety and immunogenicity of investigational nanoparticle influenza vaccine, FluMos-v1. The nanoparticle influenza vaccine is designed to provide long-lasting protection against multiple flu virus strains.

Participants include healthy adults aged 18 to 50 years old. The clinical trial aims to enroll 35 participants. An FDA-licensed quadrivalent seasonal flu vaccine will be administered to 15 of the participants and initially, 5 participants will receive a 20-microgram dose of the FluMos-v1. If there are no safety concerns, an additional 15 participants will receive a 60-microgram dose of the experimental FluMos-v1.

For one week following vaccination, participants will be noting any signs and symptoms. Participants will take their temperatures daily and will measure swelling and redness at the injection site. Participants who received the experimental FluMos-v1 will periodically provide blood samples and oral mucosal samples throughout one flu season for research purposes.

### **Influenza News Blast**

- [STUDY: Comparison between Patients Hospitalized with Influenza and COVID-19 at a Tertiary Care Center](#)
- [STUDY: Programmable Inhibition and Detection of RNA Viruses Using Cas13](#)

## Updates of Interest

Influenza activity remains low in Michigan and nationally.

Note: MIFF will be distributed for the first MMWR Week of each month, June through September, unless summer activity warrants more frequent communication.

## Congregate Setting Respiratory Virus Outbreaks

There were **0** new respiratory outbreaks (OC, ON, OSE, OSW) reported to MDHHS during this time period. Respiratory outbreaks for the 2021 summer season are listed in the table below.

# of Congregate Setting Outbreaks by Region

Facility Type	C	N	SE	SW	Summer 2021 Total	2020-21 Season Total
Schools: K-12 & College	0	0	0	0	0	0
Long-term Care / Assisted Living Facility	0	0	0	0	0	0
Healthcare Facility	0	0	0	0	0	0
Daycare	0	0	0	0	0	0
Homeless Shelter	0	0	0	0	0	0
Correctional Facility	0	0	0	0	0	0
Other	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2020-21 Season Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</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](#)

## Novel Influenza A Viruses

Five human infections with a variant influenza A virus (3 H1N1v, 1 H1N2v, 1 H3N2v) associated with swine exposure were reported for the 2020-2021 season. For more information, visit the CDC FluView Interactive:

[http://gis.cdc.gov/grasp/fluview/Novel\\_Influenza.html](http://gis.cdc.gov/grasp/fluview/Novel_Influenza.html)

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

During the 2020-2021 influenza season, provisional data shows Michigan ILI activity remained below baseline all season.

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

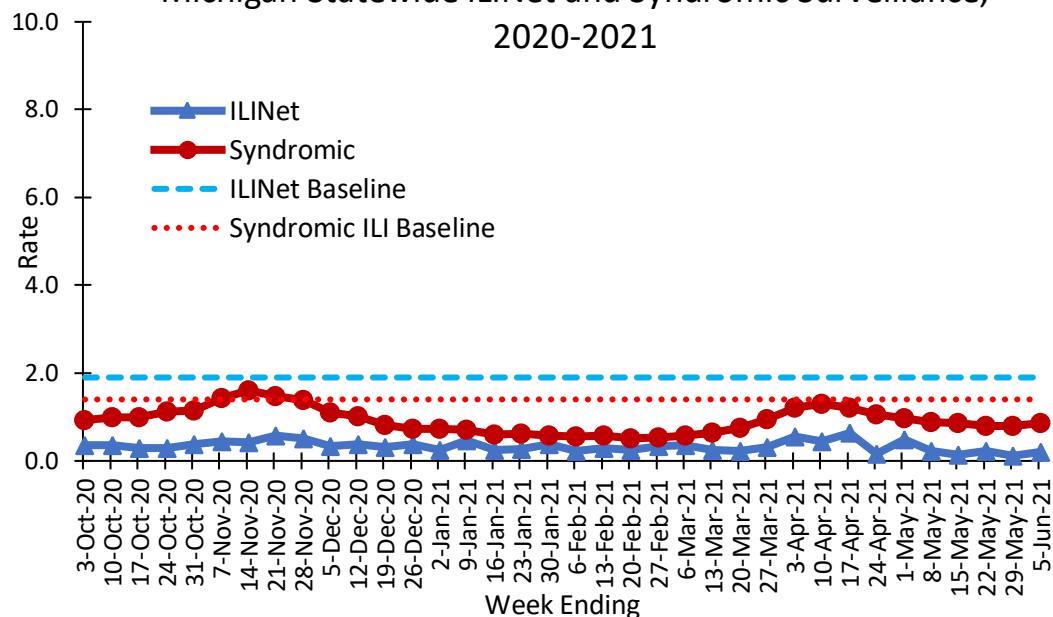
Region	C	N	SE	SW
No. of Reporters, <b>Total (16)</b>	5	2	7	2
ILI %	0.1	0.5	0.2	0.0

Data is provisional and may change as additional results are reported.

**Michigan ILI Activity: 0.2%.** A total of 9 patient visits due to ILI were reported out of 4,349 office visits during this period.

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

Michigan Statewide ILINet and Syndromic Surveillance, 2020-2021



**Become an ILINET provider!**

Contact Shelly Doebler at [DoeblerM@michigan.gov](mailto:DoeblerM@michigan.gov)

## MDHHS Laboratory Data

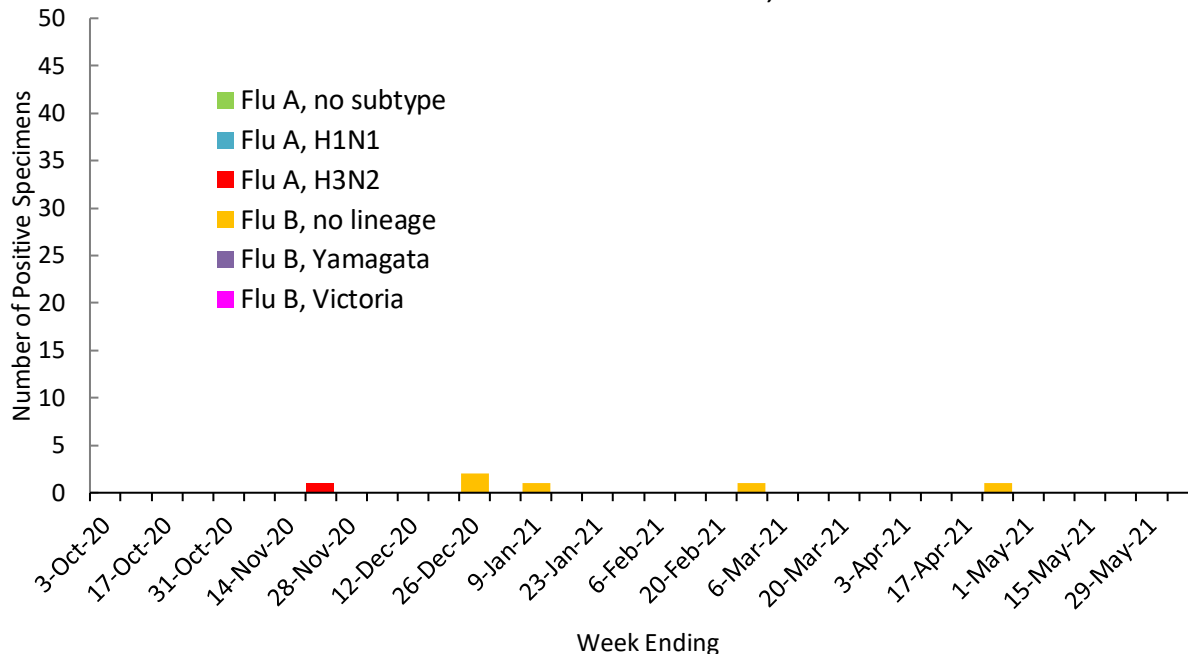
There were **0** new positive influenza results (0C, 0N, 0SE, 0SW) reported by the MDHHS Bureau of Laboratories (BOL) during this time period.

### # of Positive Respiratory Virus Results by Region

Flu Type, Subtype	C	N	SE	SW	Summer 2021 Total	2020-21 Flu Season Total
Flu A, H1N1	0	0	0	0	0	0
Flu A, H3N2	0	0	0	0	0	1
Flu B	0	0	0	0	0	5
<b>Total</b>	0	0	0	0	<b>0</b>	
<b>2020-21 Total</b>	0	0	5	1		<b>6</b>

Data is provisional and may change as additional results are reported.

### Influenza Positive Test Results, 2020-2021



Note: Based on Specimen Collection Date  
Flu B lineage data will be reported based on MDHHS BOL testing runs and will be backtracked into this graph

## Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Nine (9) sentinel clinical labs (2SE, 2SW, 4C, 1N) reported during the weeks ending 5/29 - 6/05

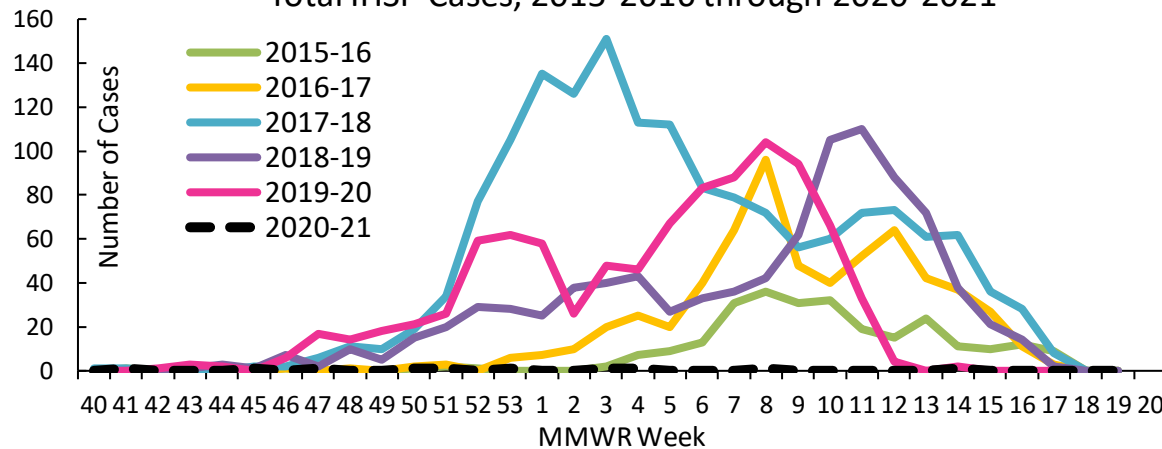
SE Region	
Influenza A:	no activity
Influenza B:	no activity
Parainfluenza:	low – slightly elevated
RSV:	low
Adenovirus:	low – slightly elevated
hMPV:	sporadic
Central Region	
Influenza A:	no activity
Influenza B:	no activity
Parainfluenza:	low – slightly elevated
RSV:	sporadic
Adenovirus:	sporadic – low
hMPV:	no activity
SW Region	
Influenza A:	no activity
Influenza B:	no activity
Parainfluenza:	sporadic
RSV:	sporadic – low
Adenovirus:	sporadic – low
hMPV:	no activity
North Region	
Influenza A:	sporadic
Influenza B:	no activity
Parainfluenza:	no activity
RSV:	sporadic
Adenovirus:	sporadic
hMPV:	no activity

## Influenza Hospitalization Surveillance Project (IHSP)

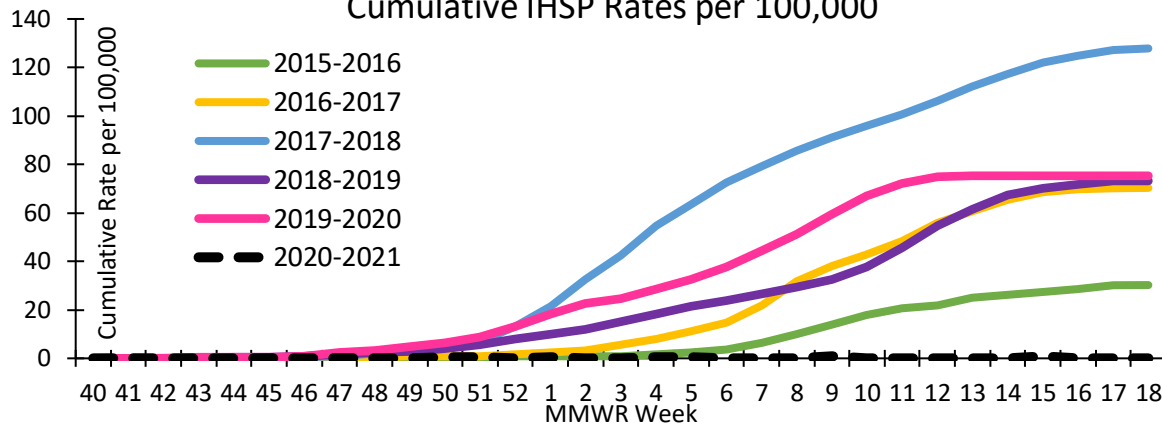
The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1<sup>st</sup> through April 30<sup>th</sup> each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton,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

Since October 1<sup>st</sup>, **10 (1 pediatric, 9 adult)** influenza-related hospitalizations were reported in the catchment area for the 2020-2021 season. Data is preliminary and may be updated as more information becomes available.

Total IHSP Cases, 2015-2016 through 2020-2021



Cumulative IHSP Rates per 100,000



Washtenaw County was added in the 2017-2018 season

## Mortality Surveillance

### Pneumonia & Influenza (P&I) Mortality Surveillance

Michigan Department of Health and Human Services Vital Records and Health Statistics provides pneumonia & influenza mortality data based on death certificates.

Please visit the [Michigan Mortality Statistics](#) webpage for more information.

### Influenza-associated Pediatric Mortality

Zero (0) pediatric influenza deaths have been confirmed by MDHHS for the 2020-2021 influenza season.

Nationally, one (1) influenza-associated pediatric death has been reported for the 2020-2021 influenza season.

Total influenza-associated pediatric deaths in the U.S. and Michigan by season are listed in the table below.

	2017-18	2018-19	2019-20	2020-21
<b>U.S. Total</b> <small>Source: CDC FluView</small>	188	144	199	1
<b>MI Total</b>	3	3	6	0

Pediatric deaths due to influenza are required to be reported in Michigan. Please see:

- [Influenza-Related Pediatric Mortality Investigation and Reporting](#)

- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [CDC FluView Weekly Report](#)
- [CDC Pneumonia and Influenza \(P&I\) Mortality Surveillance](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [Immunization Action Coalition: Ask the Experts- Flu](#)
- [MDHHS Influenza Vaccine F.A.Q.](#)

For more information on Coronavirus Disease 2019 (COVID-19) in Michigan, please visit [www.michigan.gov/coronavirus](http://www.michigan.gov/coronavirus)

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

## Swine Variant Influenza Toolkit

The Swine Variant Influenza Toolkit will help local health departments in planning for and responding to suspected influenza outbreaks associated with swine at agricultural fairs and exhibits. See:

- [Swine Variant Influenza Toolkit](#)
- [Swine Variant Influenza Toolkit Templates Document](#)

## MDHHS Contributors

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