



Michigan Flu Focus

Weekly Influenza Surveillance Report

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Week Ending September 10, 2022 | WEEK 36

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Michigan 2021-2022 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 2021-2022 season due to the impact of the COVID-19 pandemic on ILI activity.

Outbreaks – 35 (18C, 4N, 8SE, 5SW) flu outbreaks were reported during the 2021-2022 season.

Sentinel Provider Surveillance (ILINet) – provisional data shows ILI activity remained below the regional baseline of 2.5% all season.

Laboratory – 544 flu positive results (541 A, 3 B) were reported by the MDHHS Bureau of Labs.

Hospitalizations – 260 (61 pediatric, 199 adult) flu hospitalizations were reported in the catchment area from October 1, 2021 to June 11, 2022.

Pediatric flu mortality – One (1) pediatric influenza death (A/H3 virus) has been confirmed by MDHHS.

Novel Influenza A Viruses

Nationally, 11 human infections with a variant influenza A virus (5 H1N2v, 4 H3N2v, 1 H1v, 1 H5) were reported for the 2021-2022 season.

For more information, visit the [CDC FluView Interactive](#)

The **Swine Variant Influenza Toolkit** will help LHDs 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](#)

Flu Bytes

Prevention and Control of Seasonal Influenza with Vaccines: Recommendations for the 2022-2023 Flu Season

The 2022-2023 Seasonal Influenza Vaccine Recommendations were published this year on August 26, 2022. This report updates the 2021-2022 recommendations of the Advisory Committee on Immunization Practices (ACIP) for seasonal flu vaccines in the United States.

ACIP recommends routine annual flu vaccination for all person aged 6 months and older who do not have contraindications with any licensed and age-appropriate vaccine. No preferential recommendation for a specific vaccine is made except for adults aged 65 years and older.

ACIP recommends that adults aged ≥65 years preferentially receive any one of the following: higher dose or adjuvanted influenza vaccines: quadrivalent high-dose inactivated influenza vaccine (HD-IIV4), quadrivalent recombinant influenza vaccine (RIV4), or quadrivalent adjuvanted inactivated influenza vaccine (aIIV4). If none of these three vaccines is available at an opportunity for vaccine administration, then any other age-appropriate influenza vaccine should be used.

Review the full 2022-2023 ACIP Recommendations [here](#).

Influenza News Blast

- [STUDY: Importance of Continued Efforts to Prevent and Attenuate Influenza in Children](#)

Updates of Interest

The Michigan Department of Health and Human Services (MDHHS) has [announced the first human case of Influenza A \(H1N2\)v in the state this year](#). The case was confirmed by the CDC on Sept. 9, in a Berrien County fairgoer who had contact with swine at the Berrien County Youth Fair. Fair season in Michigan extends into October. MDHHS and the Michigan Department of Agriculture and Rural Development (MDARD) are urging fairgoers to take precautions to prevent infection at upcoming fairs where swine may be exhibited.

Congregate Setting Respiratory Virus Outbreaks

There were **0** influenza outbreaks reported to MDHHS during this time period. Respiratory virus outbreaks for the 2022 summer season are summarized below.

of Congregate Setting Outbreaks by Region

Facility Type	C	N	SE	SW	Summer 2022 Total	2021-2022 Season Total
Schools: K-12 & College	0	0	0	0	0	12
Long-term Care / Assisted Living Facility	1	0	1	0	2	21
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	1
Other	0	0	0	0	0	1
Total	1	0	1	0	2	
2020-21 Season Total	18	4	8	5		35

Note: Data are reported on laboratory confirmed influenza outbreaks. Non-flu, non-COVID outbreaks and ILI outbreaks without confirmatory flu testing are not reported above.

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](#)
- [Guidelines for Influenza and Respiratory Virus Outbreaks in Long-Term Care Facilities](#)

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

During the 2021-2022 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:

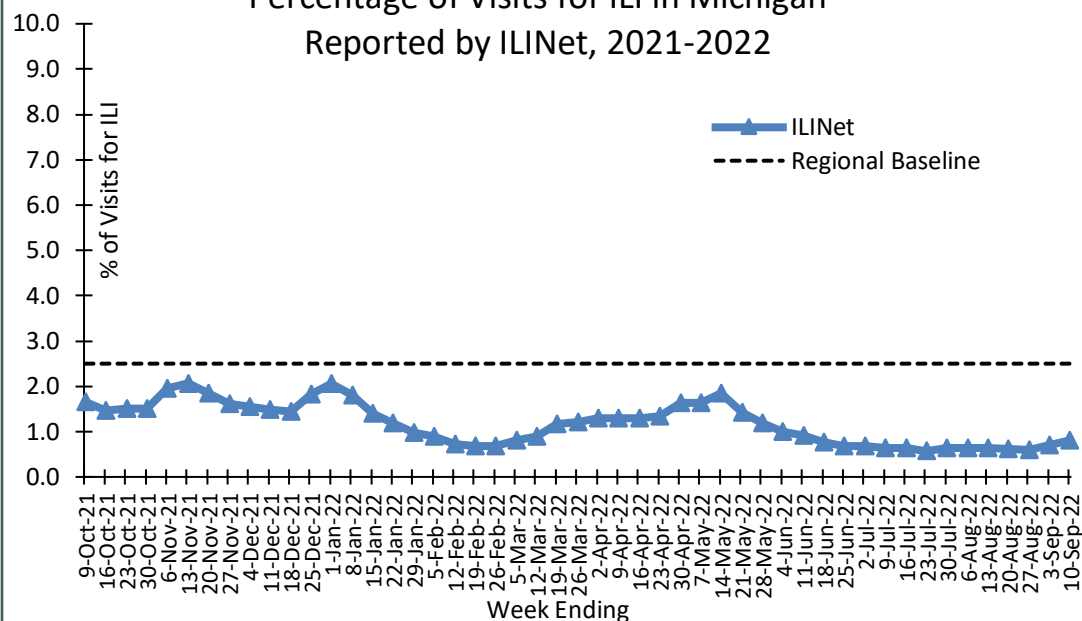
Region	C	N	SE	SW
No. of Reporters, Total (146)	50	18	50	28
ILI %	0.9	0.8	0.8	0.8

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

Michigan ILI Activity: 0.8% (Last Week: 0.7%) A total of 713 patient visits due to ILI were reported out of 87,732 outpatient visits during Week 36.

*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

Percentage of Visits for ILI in Michigan Reported by ILINet, 2021-2022



Note: ILINet monitors visits for ILI (fever and cough and/or sore throat) and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

Become an ILINET provider!

Contact Shelly Doebler at DoeblerM@michigan.gov

MDHHS Laboratory Data

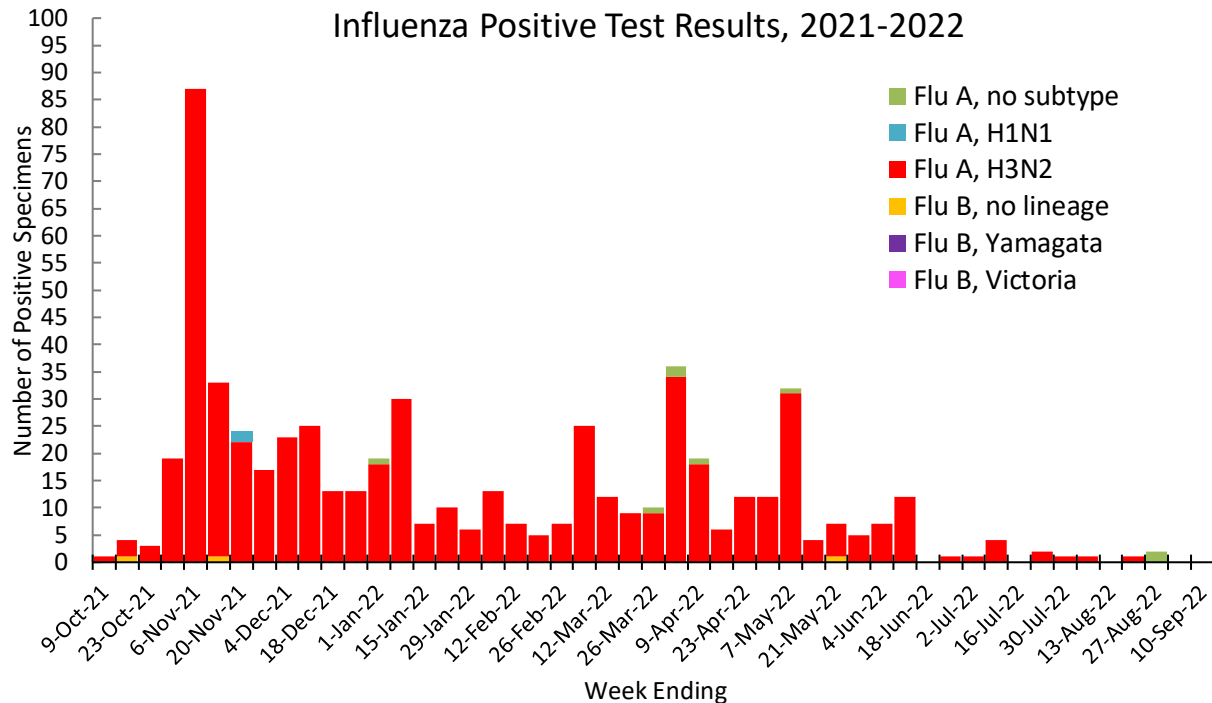
There were 0 positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Two (2) positive results were reported for Week 34.

of Positive Respiratory Virus Results by Region

Flu Type, Subtype	C	N	SE	SW	Summer 2022 Total	2021-2022 Flu Season Total
Flu A, H1N1	0	0	0	0	0	2
Flu A, H3N2	11	1	11	12	35	539
Flu B	0	0	0	0	0	3
Total	11	1	11	12	35	
2021-2022 Total	177	22	231	114		544

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

Influenza Positive Test Results, 2021-2022



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

Seven (7) sentinel clinical labs (1SE, 0SW, 5C, 1N) reported for the week ending 9/10/2022

SE Region

Influenza A:	sporadic
Influenza B:	no activity
Parainfluenza:	low
RSV:	elevated
Adenovirus:	low
hMPV:	low

Central Region

Influenza A:	no activity
Influenza B:	no activity
Parainfluenza:	low
RSV:	low – slightly elevated
Adenovirus:	low
hMPV:	sporadic

SW Region

Influenza A:	no data available
Influenza B:	no data available
Parainfluenza:	no data available
RSV:	no data available
Adenovirus:	no data available
hMPV:	no data available

North Region

Influenza A:	no activity
Influenza B:	no activity
Parainfluenza:	sporadic
RSV:	no activity
Adenovirus:	sporadic – low
hMPV:	no activity

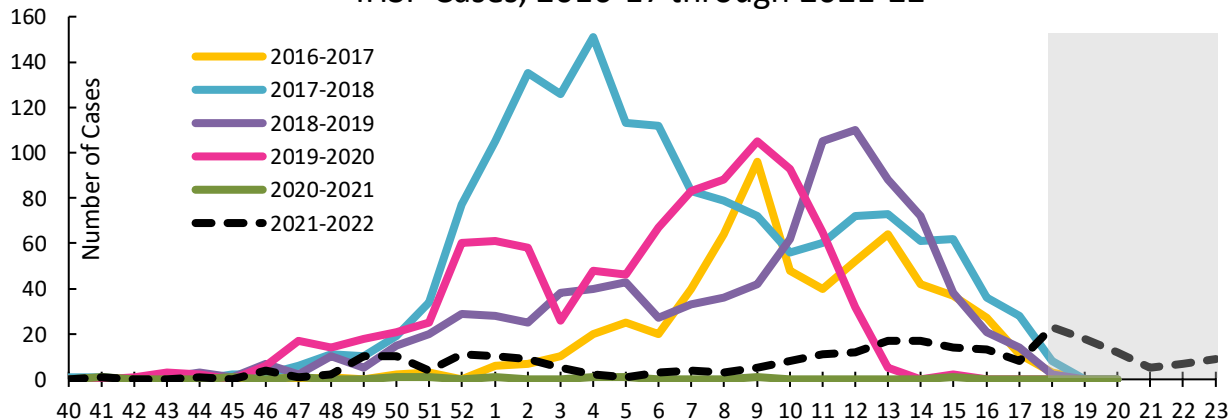
Influenza Hospitalization Surveillance Project (IHSP)

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

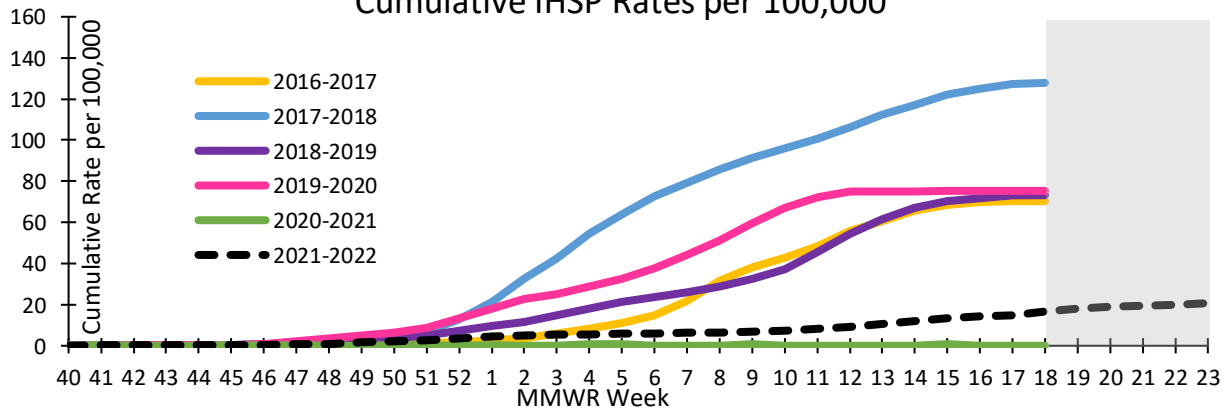
Due to late season activity during the 2021-2022 season, IHSP surveillance has been extended through June 11.

Since October 1st, **260** (61 pediatric, 199 adult) influenza-related hospitalizations were reported in the catchment area for the 2021-2022 season.

IHSP Cases, 2016-17 through 2021-22



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 info.

Influenza-associated Pediatric Mortality

One (1) pediatric influenza death (A/H3 virus) has been confirmed by MDHHS for the 2021-2022 influenza season.

Nationally, 35 influenza-associated pediatric deaths have been reported for the 2021-2022 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	2021-2022
U.S. Total <small>Source: CDC FluView</small>	188	144	199	1	35
MI Total	3	3	6	0	1

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

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

Additional Resources

- [MDHHS Influenza Webpage](#) and [Influenza Surveillance in MI](#)
- [MDHHS Flu Vaccination Dashboard](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage](#) and [Test Request Forms](#)
- [Preliminary in-season burden estimates for 2021-2022 season](#)
- [Immunization Action Coalition: Ask the Experts - Flu](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [CDC FluView Weekly Report](#)

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

MDHHS Contributors

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