



# Michigan Flu Focus

Weekly Influenza Surveillance Report

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Week Ending September 2, 2023 | WEEK 35

Editor: Sue Kim

Editor email: [KimS2@michigan.gov](mailto:KimS2@michigan.gov)

## Michigan 2022-2023 Season Overview

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

**Outbreaks** – 72 (24C, 4N, 23SE, 21SW) flu outbreaks were reported during the 2022-2023 season.

**Sentinel Provider Surveillance (ILINet)** – provisional data shows Michigan's ILI activity peaked at 4.3% during Week 51 and above baseline for 5 weeks during the 2022-2023 season.

**Laboratory** – 756 flu positive results (230 Influenza A/H1N1, 482 Influenza A/H3, 44 Influenza B) were reported by the MDHHS Bureau of Laboratories.

**Hospitalizations** – 793 (127 pediatric, 666 adult) flu hospitalizations were reported in the catchment area from October 1, 2022 to April 30, 2023.

**Pediatric flu deaths** – Five (5) pediatric flu deaths have been reported in MI for the 2022-2023 season.

## Novel Influenza A Viruses

Nationally, **3** human infections with a variant influenza A virus were reported for the 2022-2023 season.

For more information, visit the [CDC FluView Interactive on Novel Influenza A Virus Infections](#)

The MDHHS **Swine Variant Influenza Toolkit** will help LHDs in planning for and responding to suspected flu outbreaks associated with swine at agricultural fairs and exhibits. See:

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

## Flu Bytes

### 2023-2023 CDC Flu Vaccination Recommendations Adopted

On June 29, 2023, CDC Director Rochelle P. Walensky, M.D., M.P.H. adopted the [2023-2024 Advisory Committee on Immunization Practices' \(ACIP\) recommendations](#) on annual influenza vaccination for everyone aged 6 months and older in the U.S.

Two small updates were made to the annual recommendations around flu vaccination, including an updated to the recommended flu vaccine composition for the 2023-2024 flu season and a new recommendation for people with egg-allergies. ACIP voted that people with egg-allergy may receive any flu vaccine (egg-based or non-egg based) that is otherwise appropriate for their age and health status. Additional safety measures are no longer recommended beyond those recommended for receipt of any vaccine.

Dr. Walensky's adoption of the ACIP recommendations make them official CDC policy, which will be published in an upcoming Morbidity and Mortality Weekly Recommendation Report later this summer. Providers should begin vaccination patients according to CDC's [recommended timing](#), which remains the same as last season.

### **Influenza News Blast**

- [Researchers getting closer to a "universal" flu vaccine](#)
- [STUDY: Vaccine Effectiveness Against Life-Threatening Influenza Illness in Children](#)
- [STUDY: Comparison between Patients Hospitalized with Influenza and](#)

## Updates of Interest

The [Michigan Department of Agriculture and Rural Development \(MDARD\) Encourages Bird Owners to Continue Protecting Their Flocks from HPAI as Wild Birds Begin to Migrate](#). "While MDARD has not reported any new cases of highly pathogenic avian influenza (HPAI) in domestic poultry flocks since March 2023, MDARD continues to receive and investigate calls regarding sick domestic birds, and the virus is still being detected across the nation."

## Congregate Setting Respiratory Virus Outbreaks

There were **0** influenza outbreaks reported to MDHHS during this time period. One (1) influenza outbreak was reported during Week Ending August 19, 2023. Respiratory virus outbreaks for the 2023 summer season are summarized below.

### # of Congregate Setting Outbreaks by Region

Facility Type	C	N	SE	SW	Summer 2023 Total	2022-2023 Season Total
Schools: K-12 & College	0	0	0	0	0	9
Long-term Care / Assisted Living Facility	1	0	0	0	1	57
Healthcare Facility	0	0	0	0	0	2
Daycare	0	0	0	0	0	0
Homeless Shelter	0	0	0	0	0	0
Correctional Facility	0	0	0	0	0	4
Other	0	0	0	0	0	0
<b>Total</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	
<b>2022-2023 Season Total</b>	<b>24</b>	<b>4</b>	<b>23</b>	<b>21</b>		<b>72</b>

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 2022-2023 influenza season, provisional data shows Michigan ILI activity peaked at 4.3% during Week 51 (Week Ending December 24, 2022).

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

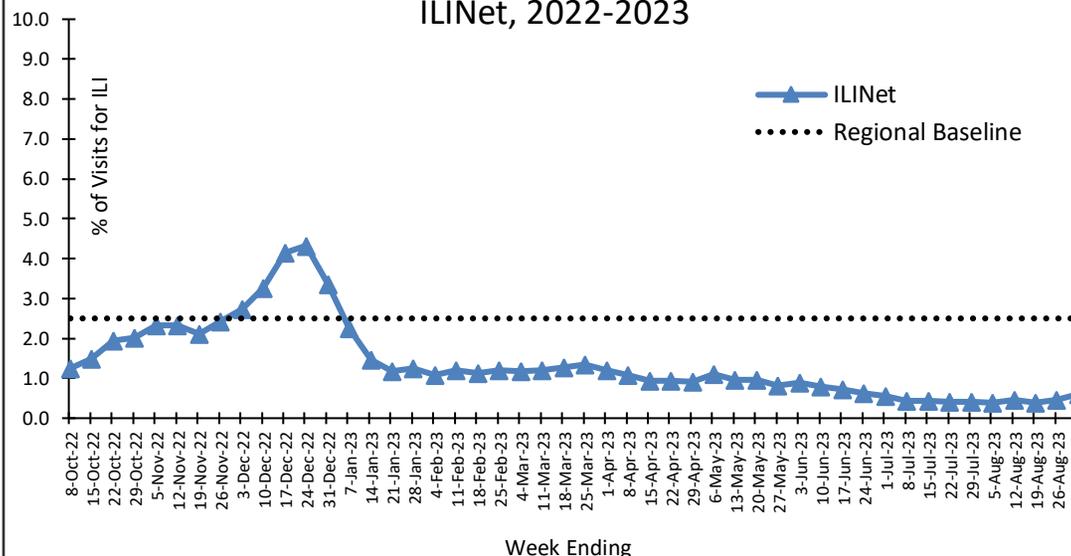
Region	C	N	SE	SW
No. of Reporters, <b>Total (147)</b>	47	18	54	28
ILI %	0.5	0.7	0.6	0.6

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

**Michigan ILI Activity: 0.6%** (Last Week: 0.5%) A total of 499 patient visits due to ILI were reported out of 84,232 outpatient visits during Week 35.

\*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, 2022-2023



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 Doeblner at [DoeblnerM@michigan.gov](mailto:DoeblnerM@michigan.gov)

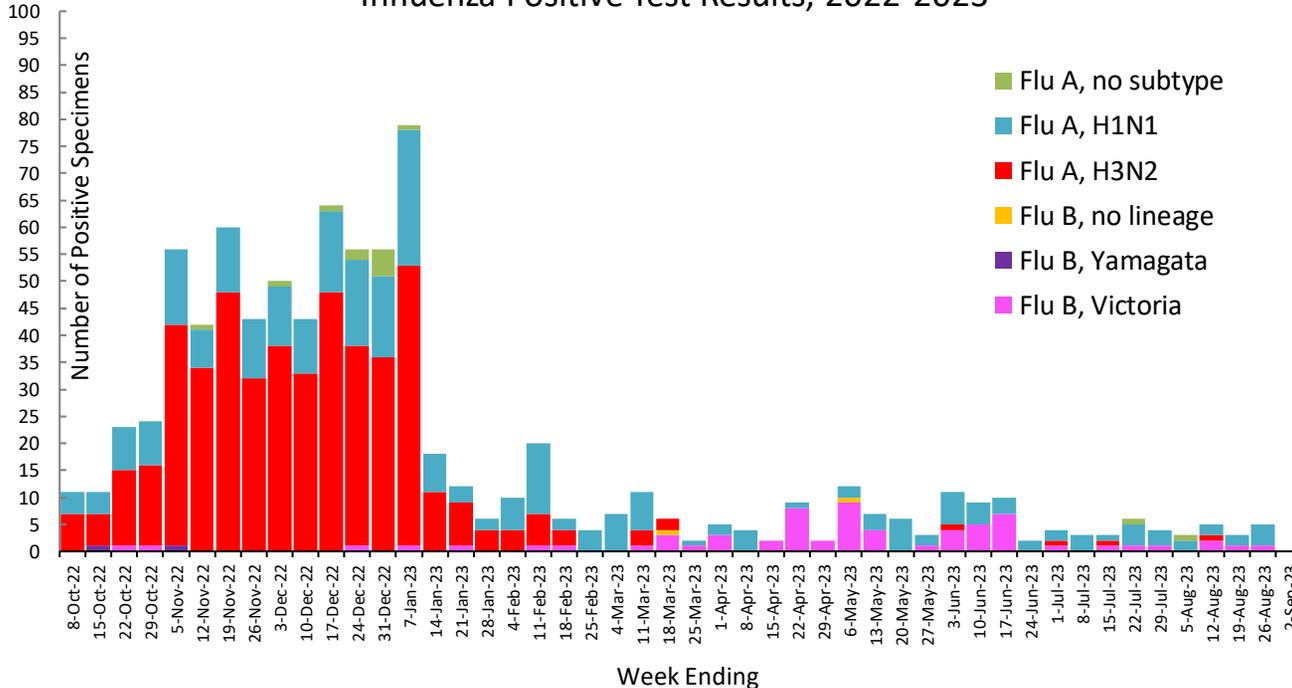
## MDHHS Laboratory Data

There were **0** positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period.

# of Positive Influenza Results by Region

Flu Type, Subtype	C	N	SE	SW	Summer 2023 Total	2022-2023 Flu Season Total
Flu A, H1N1	10	0	17	13	40	230
Flu A, H3N2	1	0	1	2	4	482
Flu B	4	0	11	10	25	44
<b>Total</b>	15	0	29	25	<b>69</b>	
2022-2023 Total	163	6	309	278		<b>756</b>

Influenza Positive Test Results, 2022-2023



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

## National Respiratory and Enteric Virus Surveillance System (NREVSS)

The [National Respiratory and Enteric Virus Surveillance System \(NREVSS\)](#) is a laboratory-based system that monitors temporal and geographic circulation patterns (patterns occurring in time and place) of respiratory syncytial virus (RSV), human parainfluenza viruses (HPIV), human metapneumovirus (HMPV), respiratory adenoviruses, human coronavirus, rotavirus, and norovirus. Participating U.S. laboratories voluntarily report weekly to CDC the total number of weekly aggregate tests performed to detect these viruses, and the weekly aggregate positive tests, in addition to specimen type, location, and week of collection.

[Michigan RSV Trends](#)

[Midwest Human Metapneumovirus \(HMPV\) Trends](#)

[Midwest Common Human Coronaviruses Trends](#)

[U.S. Respiratory Adenovirus Trends](#)

[U.S. Parainfluenza Type 1, 2, 3 Trends](#)

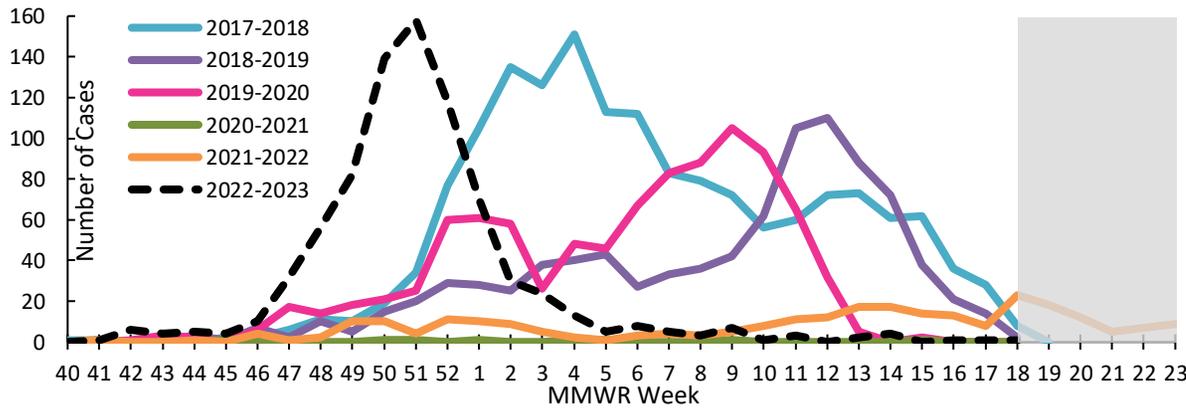
Data updated as of **September 7, 2023**

## Influenza Hospitalization Surveillance Project (IHSP)

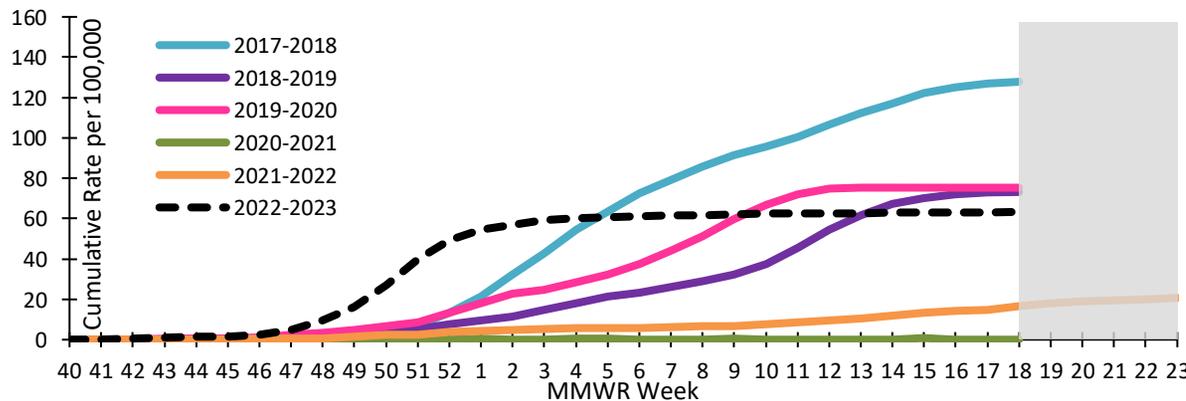
The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides population-based rates of laboratory-confirmed influenza-associated hospitalizations from October 1<sup>st</sup> through April 30<sup>th</sup> each year. Michigan participates as an IHSP state in FluSurv-NET for Clinton,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

Since October 1<sup>st</sup>, **793** (127 pediatric, 666 adult) influenza-related hospitalizations were reported in the catchment area for the 2022-2023 season.

IHSP Cases, 2017-18 Through 2022-2023



Cumulative IHSP Rates per 100,000



Washtenaw County was added in the 2017-2018 season.

Due to late season activity during 2021, IHSP surveillance was extended through June 11 for the 2021-2022 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

Five (5) pediatric flu deaths have been confirmed by MDHHS for the 2022-2023 influenza season.

Nationally, 174 influenza-associated pediatric deaths have been reported for the 2022-2023 influenza season.

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

	2018-19	2019-20	2020-21	2021-22	2022-23
<b>U.S. Total</b> <small>Source: CDC FluView</small>	145	199	1	47	174
<b>MI Total</b>	3	6	0	1	5

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 2022-2023 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

Bureau of Infectious Disease Prevention: S. Bidol, MPH, M. Doebler, MPH, S. Kim, MPH

Bureau of Laboratories: B. Robeson, MT, V. Vavricka, MS