



# Michigan Flu Focus

Weekly Influenza Surveillance Report

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## Michigan 2023-2024 Season Overview

**Outbreaks** – **87** (31C, 10N, 22SE, 24SW) influenza outbreaks were reported during the 2023-2024 season.

**Sentinel Provider Surveillance (ILINet)** – Michigan's ILI activity had 2 distinct peaks: first at **4.9%** during Week 52 and the second at **6.0%** during Week 9.

**Laboratory** – **961** flu positive results (496 Influenza A/H1N1, 243 Influenza A/H3, 222 Influenza B) were reported by the MDHHS Bureau of Laboratories.

**Hospitalizations** – **1,118** (147 pediatric, 971 adult) flu hospitalizations were reported in the catchment area since October 1<sup>st</sup>, 2023.

**Pediatric flu deaths** – **8** pediatric flu deaths have been reported in MI for the 2023-2024 season.

## Updates of Interest

The Michigan Department of Health and Human Services (MDHHS) has confirmed one additional influenza-associated pediatric death reported during Week 32. The child was infected with influenza B and was from the Southeast Region of Michigan. This brings the current confirmed total to eight (8) in Michigan for the 2023-2024 season.

## Novel Influenza A Viruses

Nationally, **16** human infections with novel influenza A viruses were reported for the 2023-2024 season.

- 3 H1N2v (PA)
- 13 H5N1 (1 TX, 2 MI, 10 CO)

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

### Highly Pathogenic Avian Influenza (HPAI)

Please see the [MDHHS Highly Pathogenic Avian Influenza \(HPAI\) Evaluation and Monitoring Protocol](#) for guidance on appropriate human health measures in the event that people are exposed to infected or dead birds or livestock due to HPAI.

For the current status of HPAI in Michigan, please visit the [MDARD Avian Flu Website](#).

### Swine Variant Influenza

Fair season is approaching! The MDHHS [Swine Variant Influenza Toolkit](#) and [Templates](#) will help LHDs in planning for and responding to suspected influenza outbreaks associated with swine at agricultural fairs and exhibits.

## Flu Bytes

### Save the date!

MDHHS would like to announce the upcoming [2024 Fall Immunization Conference](#) will be held virtually on November 7, 2024! We will be offering a jam-packed virtual conference that will include CDC, MDHHS, and guest speakers.

This event is for physicians, physician assistants, nurses, nurse practitioners, medical assistants, public health staff, pharmacists, medical and nursing students, practice managers, and other health care professionals who are interested in learning more about current immunization practices in Michigan.

Registration for the conference will open on September 9, 2024, and additional details and the registration link will be coming soon.

### Influenza News Blast

- [Clinicians detail H5N1 infections in 2 Michigan farm workers](#)
- [USDA confirms more H5N1 in dairy cows, wild birds, and small mammals](#)
- [COVID drops to 10th leading cause of death in US](#)
- [Meta-analysis suggests educational campaigns have little to no impact on vaccine uptake](#)
- [Trust in physicians and hospitals fell over 30% over the course of the COVID-19 pandemic](#)

## Congregate Setting Respiratory Virus Outbreaks

There were **0** influenza outbreaks reported to MDHHS during Week 31. Respiratory virus outbreaks for the 2024 summer season are summarized below.

### # of Congregate Setting Outbreaks by Region

| Facility Type                             | C         | N         | SE        | SW        | Summer 2024 Total | 2023-2024 Season Total |
|---|-----------|-----------|-----------|-----------|-------------------|------------------------|
| Schools: K-12 & College                   | 0         | 0         | 0         | 0         | 0                 | 7                      |
| Long-term Care / Assisted Living Facility | 0         | 0         | 1         | 0         | 1                 | 77                     |
| Healthcare Facility                       | 0         | 0         | 0         | 0         | 0                 | 1                      |
| Daycare                                   | 0         | 0         | 0         | 0         | 0                 | 0                      |
| Homeless Shelter                          | 0         | 0         | 0         | 0         | 0                 | 0                      |
| Correctional Facility                     | 0         | 0         | 0         | 0         | 0                 | 2                      |
| Other                                     | 0         | 0         | 0         | 0         | 0                 | 0                      |
| <b>Summer 2024 Total</b>                  | <b>0</b>  | <b>0</b>  | <b>1</b>  | <b>0</b>  | <b>1</b>          |                        |
| <b>2023-2024 Season Total</b>             | <b>31</b> | <b>10</b> | <b>22</b> | <b>24</b> |                   | <b>87</b>              |

Note: Data are reported on laboratory confirmed influenza outbreaks. Non-flu, non-COVID outbreaks and ILI outbreaks without confirmatory influenza 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 2023-2024 influenza season, Michigan ILI activity had 2 distinct peaks: the first at **4.9%** during **Week 52** (Week Ending December 30, 2023) and the second at **6.0%** during **Week 9** (Week Ending March 2, 2024).

### Number of Reports and ILI % by Region in Michigan during Week 31:

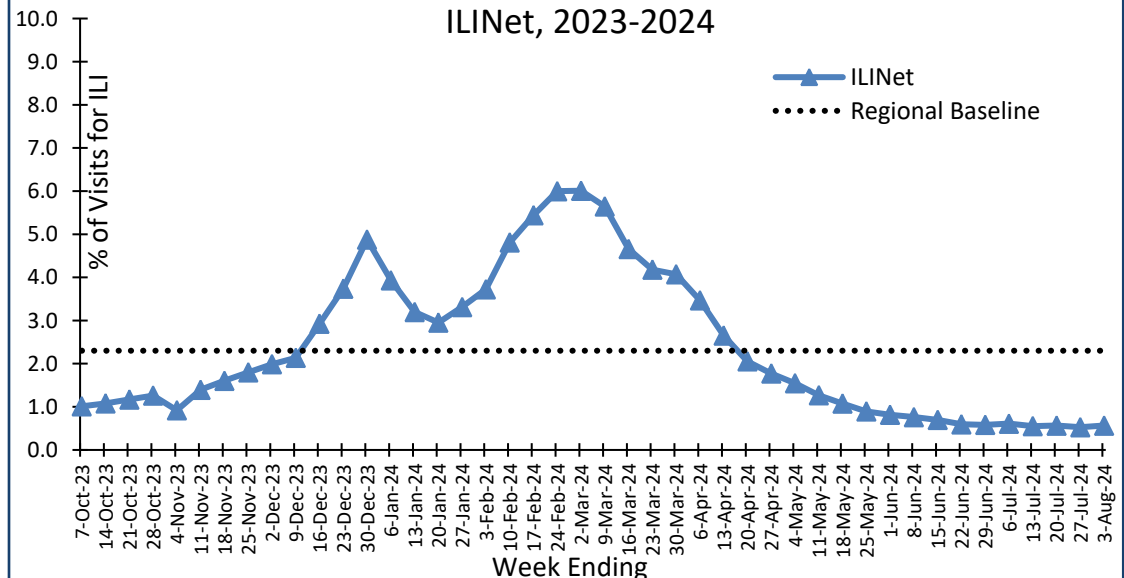
| Region                               | C   | N   | SE  | SW  |
|--------------------------------------|-----|-----|-----|-----|
| No. of Reporters, <b>Total (282)</b> | 111 | 30  | 107 | 34  |
| ILI %                                | 0.4 | 1.1 | 0.8 | 0.5 |

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

**Michigan ILI Activity: 0.6%** (Last Week: 0.5%) A total of **712** patient visits due to ILI were reported out of **125,901** outpatient visits during Week 31.

\*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, 2023-2024



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 Faria Farin at [FarinF1@michigan.gov](mailto:FarinF1@michigan.gov)

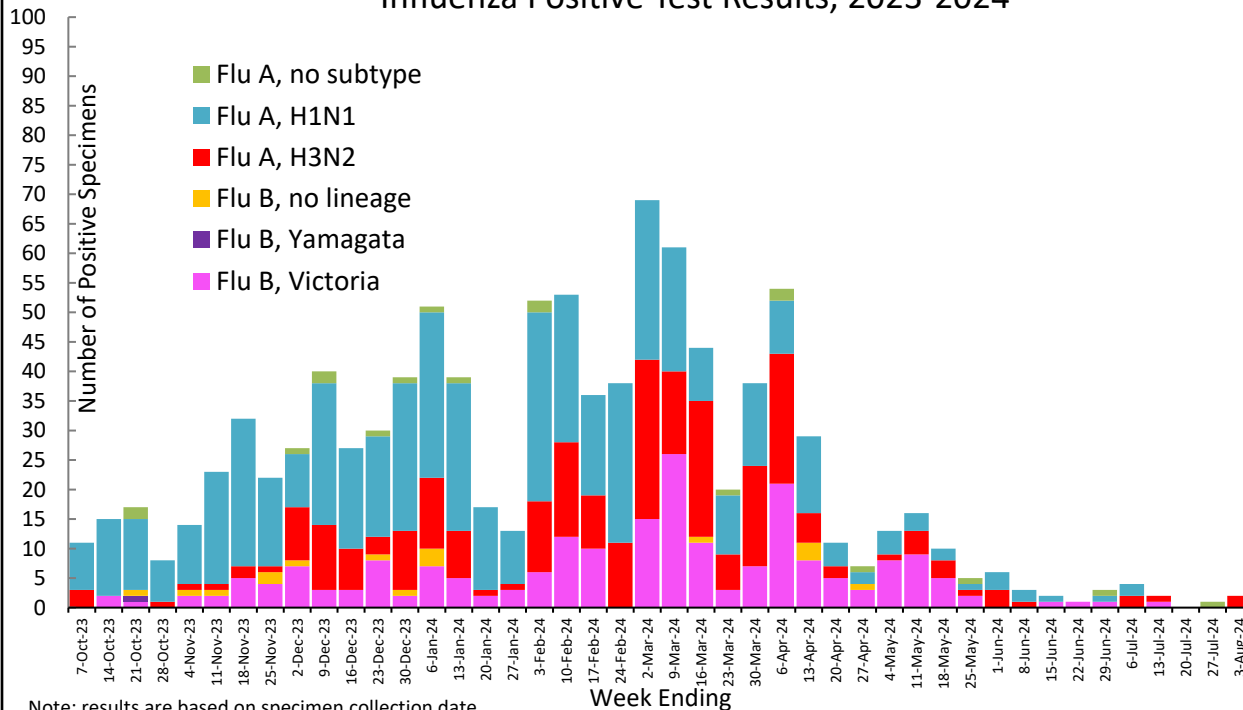
## MDHHS Laboratory Data

There were **2** (0C, 0N, 0SE, 2SW) 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 2024 Total | 2023-2024 Flu Season Total |
|------------------------|------------|-----------|------------|------------|-------------------|----------------------------|
| Flu A, H1N1            | 3          | 0         | 3          | 4          | 10                | 496                        |
| Flu A, H3N2            | 2          | 0         | 2          | 6          | 10                | 243                        |
| Flu B                  | 1          | 0         | 2          | 3          | 6                 | 222                        |
| <b>Total</b>           | <b>6</b>   | <b>0</b>  | <b>7</b>   | <b>13</b>  | <b>26</b>         |                            |
| <b>2023-2024 Total</b> | <b>317</b> | <b>19</b> | <b>329</b> | <b>296</b> |                   | <b>961</b>                 |

Influenza Positive Test Results, 2023-2024



Note: results are based on specimen collection date  
 Influenza B lineage data will be reported based on MDHHS BOL testing runs and will be backtracked into this graph  
 Two influenza B/Yamagata results were detected and associated with the LAIV (live, attenuated influenza vaccine) or nasal spray vaccine

## Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Three (**3**) sentinel clinical labs (1SE, 1SW, 1C, 0N) reported for the week ending 8/3/24.

|                | Southeast Region        | Central Region    |
|----------------|-------------------------|-------------------|
| Influenza A:   | Sporadic - low          | Sporadic          |
| Influenza B:   | No activity             | No activity       |
| Parainfluenza: | Sporadic                | No data available |
| RSV:           | No activity             | No activity       |
| Adenovirus:    | Low                     | No data available |
| hMPV:          | Low - slightly elevated | No data available |
|                | Southwest Region        | North Region      |
| Influenza A:   | Sporadic - low          | No data available |
| Influenza B:   | No activity             | No data available |
| Parainfluenza: | No activity             | No data available |
| RSV:           | No activity             | No data available |
| Adenovirus:    | Sporadic                | No data available |
| hMPV:          | No activity             | No data available |

## 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 various viruses. Participating U.S. laboratories voluntarily report the total number of weekly aggregate tests performed and the weekly aggregate positive tests.

### NEW! [NREVSS Dashboard](#)

NREVSS monitors the following respiratory viruses:

- SARS-CoV-2
- RSV
- Influenza
- Parainfluenza (1-4)
- Human metapneumovirus
- Rhinovirus/enterovirus
- Adenovirus
- Human coronaviruses

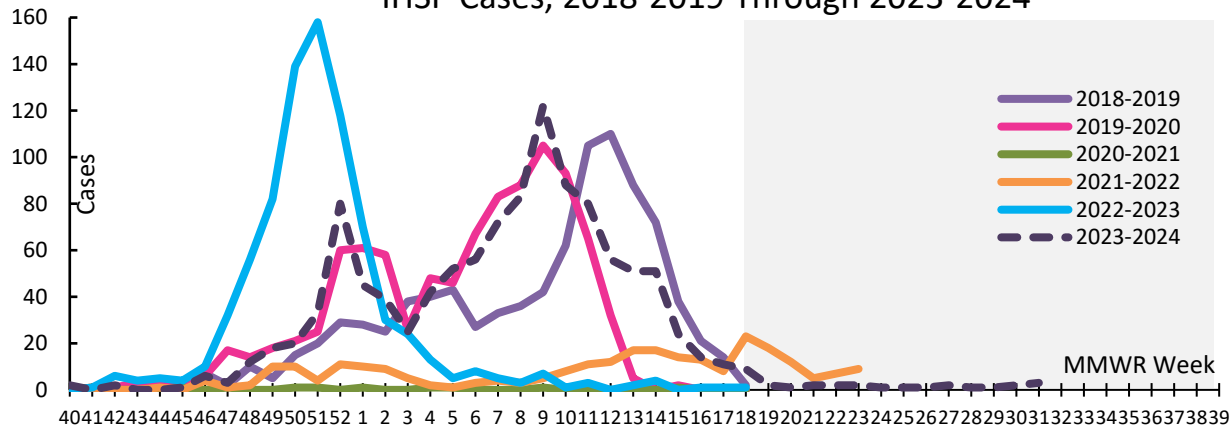
## Influenza Hospitalization Surveillance Project (IHSP)

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> to April 30<sup>th</sup> each year. Michigan participates in FluSurv-NET for Clinton, Eaton, Genesee, Ingham, and Washtenaw Counties.

There were **3** (0 pediatric, 3 adult) hospitalizations reported during this time period.

Since October 1<sup>st</sup>, **1,118** (147 pediatric, 971 adult) hospitalizations were reported for the 2023-2024 season.

IHSP Cases, 2018-2019 Through 2023-2024



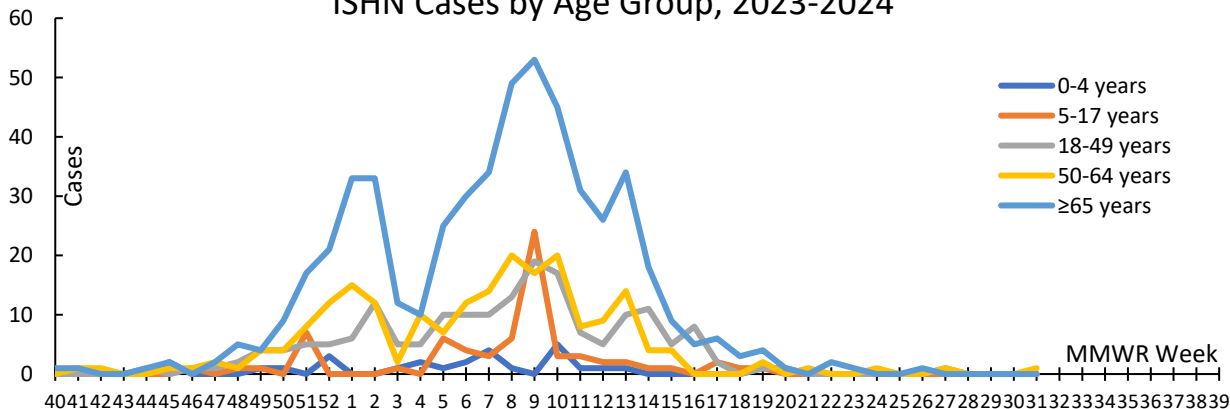
## Influenza Sentinel Hospital Network (ISHN)

ISHN is a group of hospitals in Michigan that report weekly aggregates of flu hospitalizations by age group.

There was **1** hospitalization (0C, 0N, 0SE, 1SW) reported during this time period.

Since October 1<sup>st</sup>, **1,011** (98 pediatric, 913 adult) hospitalizations were reported for the 2023-2024 season.

ISHN Cases by Age Group, 2023-2024



## 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

**Eight (8)** pediatric flu deaths have been confirmed by MDHHS for the 2023-2024 influenza season.

Nationally, **188** influenza-associated pediatric deaths have been reported for the 2023-2024 influenza season.

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

|   | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2023-24 |
|---|---------|---------|---------|---------|---------|
| <b>U.S. Total</b><br><small>Source: <a href="#">CDC FluView</a></small> | 199     | 1       | 49      | 185     | 188     |
| <b>MI Total</b>   | 6       | 0       | 1       | 8       | 8       |

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

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