



# Michigan Flu Focus

Weekly Influenza Surveillance Report

April 19, 2024

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Week Ending April 13, 2024 | WEEK 15

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*Data provided in this report are preliminary and will be updated as additional data are received*

## Updates of Interest

The Michigan Department of Health and Human Services (MDHHS) has confirmed one additional influenza-associated pediatric death. The reported death involves a child from the southeast region of Michigan and was infected with influenza B/Victoria. This will be counted in the National counts for Week 16 and brings the current confirmed total to two in Michigan for the 2023-2024 influenza season.

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

## Seasonal Flu Vaccination Coverage

Michigan's goal is to vaccinate **4 million** residents during the 2023-2024 flu season.

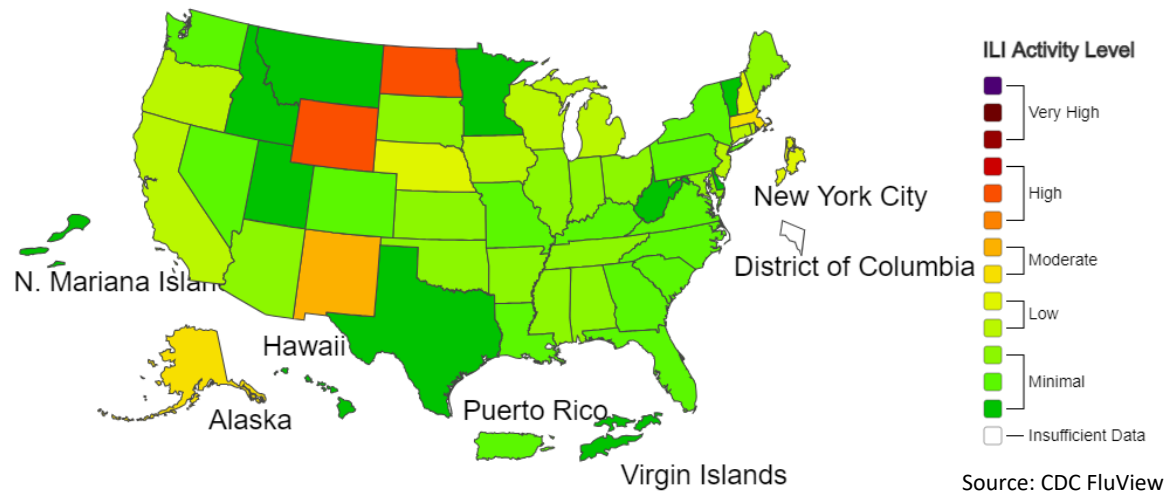
As of **April 6, 2024**, there have been **2,877,482** doses administered (**75.1%** towards goal) for the 2023-2024 flu season.

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

## Outpatient Respiratory Illness Activity Map Determined by Data Reported to ILINet

This system monitors visits for respiratory illness that includes fever plus a cough or sore throat, also referred to as ILI, not laboratory confirmed influenza and may capture patient visits due to other respiratory pathogens that cause similar symptoms.

2023-24 Influenza Season Week 15 ending Apr 13, 2024



Note: This map represents U.S. ILI activity levels reported to ILINet. The display used in past seasons showing Geographic spread of influenza has been suspended for the 2023-2024 influenza season

## Influenza-associated Pediatric Mortality

Nationally, **142** influenza-associated pediatric death has been reported for the 2023-2024 flu season.

Two (2) pediatric deaths have been confirmed by MDHHS for the 2023-2024 flu season to date.

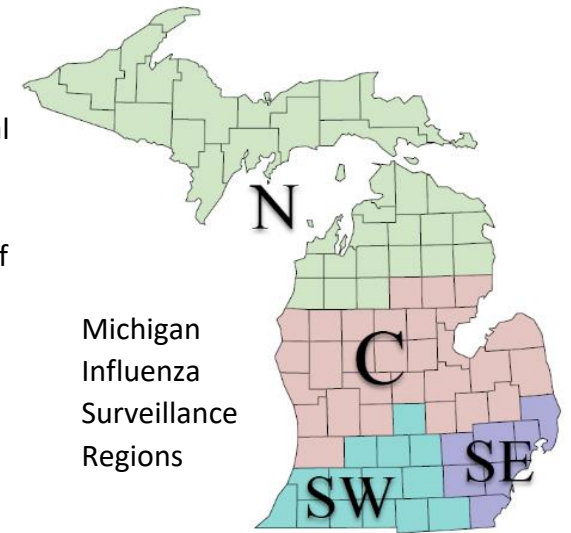
## U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

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 of outpatient visits to health care providers seen for any reason and the number of those patients with influenza-like illness (ILI<sup>‡</sup>). Participating Michigan emergency department and urgent care facilities send syndromic data voluntarily in near real-time to the Electronic Surveillance System for the Early Notification of Community Based Epidemics (ESSENCE). Discharge diagnosis and chief complaint data elements are used to determine whether visits meet the ILI case definition. Two hundred and thirty-one (231) Michigan facilities contributing data to ESSENCE have been validated and enrolled in ILINet.

<sup>‡</sup>ILI is defined as fever (>100°F) and a cough and/or a sore throat.

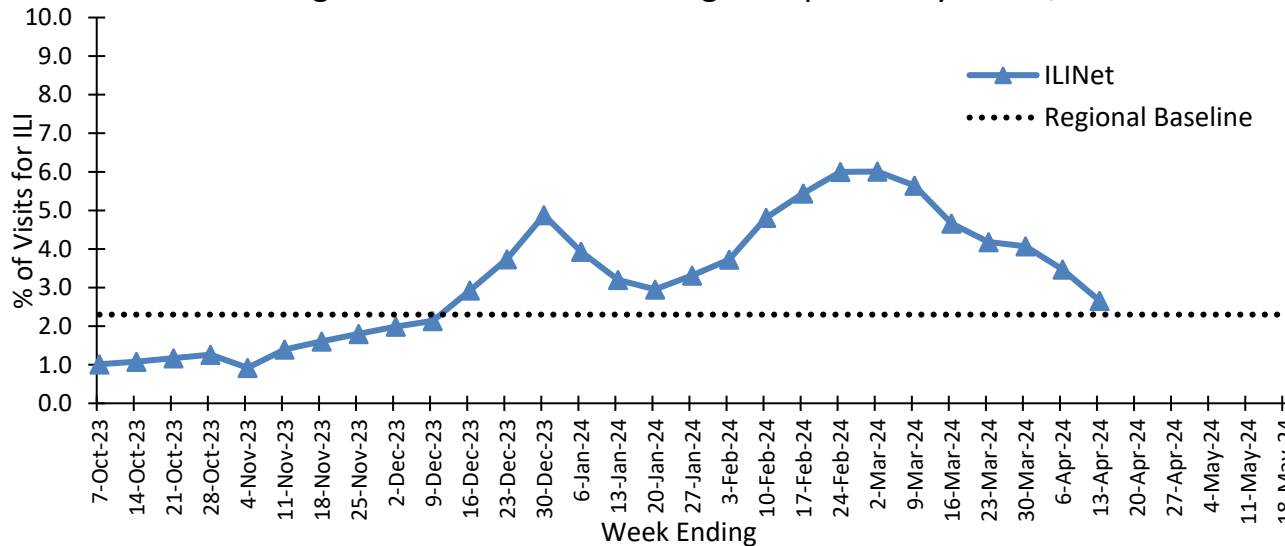
### Number of Reports and ILI % by Region during this time period:

	C	N	SE	SW
No. of Reporters ( <b>284</b> )	111	30	108	35
ILI %	1.6	4.4	3.7	2.4



Michigan Influenza Surveillance Regions

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.

**Michigan ILI Activity: 2.7% ↓**

(Last week: 3.5%)

Regional Baseline\*: 2.3%

A total of **3,782** patient visits due to ILI were reported out of **142,429** outpatient visits.

\*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, **2.5%** of outpatient visits were due to ILI (Last week: **2.8%**)

This is **below** the national baseline of 2.9%

**Become an ILINET provider!**

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

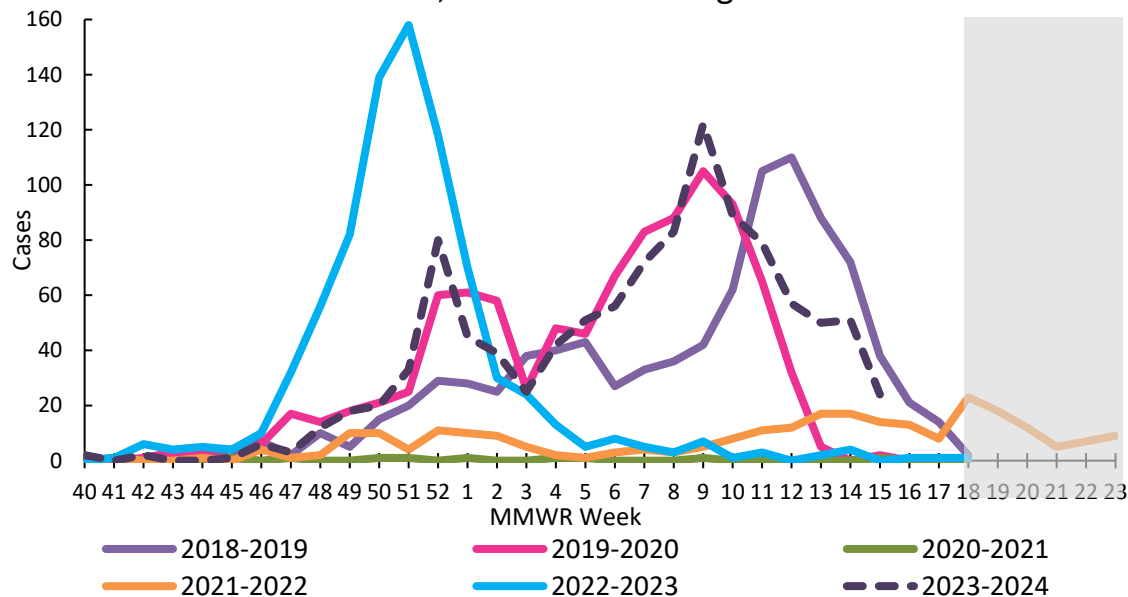
## Influenza Hospitalization Surveillance Project (IHSP)

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.

### # of IHSP cases reported for the 2023-2024 season:

	Pediatric	Adult	Total
Week 15	3	21	<b>24</b>
Cumulative Cases	140	922	<b>1062</b>

IHSP Cases, 2018-2019 Through 2022-2023



Washtenaw County was added in the 2017-2018 season

Note: Due to late season activity in 2022, IHSP was extended to Week 23 during the 2021-2022 season.

## Influenza Sentinel Hospital Network (ISHN)

[ISHN](#) is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza hospitalizations by age group.

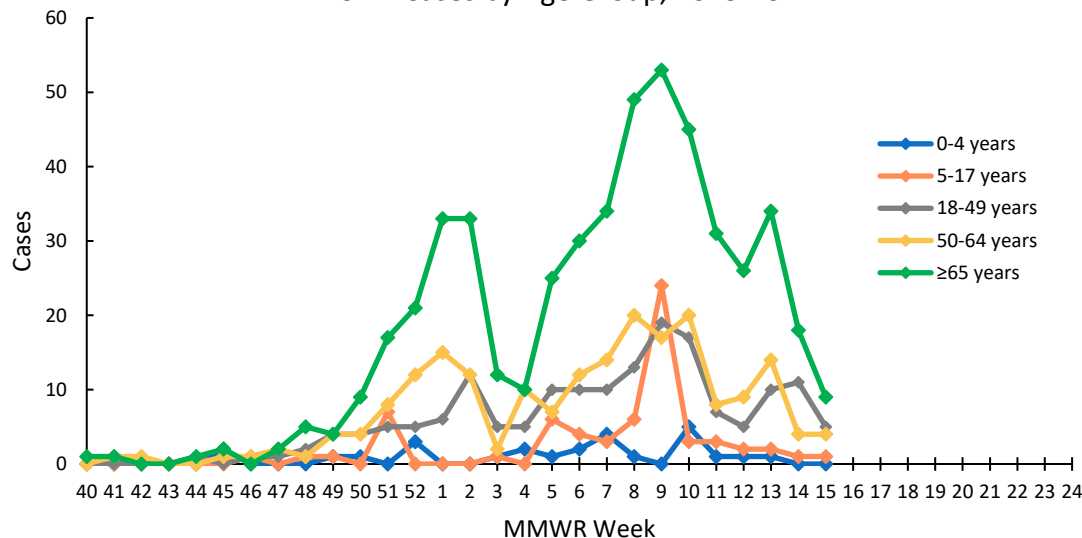
### # of Sites & Hospitalizations by Region during this time period:

Region	C	N	SE	SW	Total
Reporting Sites	4	2	1	6	<b>13</b>
Hospitalizations	3	1	3	12	<b>19</b>

### # of ISHN Hospitalizations reported by Region

Age Group	C	N	SE	SW	Total
0-4	0	0	0	26	<b>26</b>
5-17	0	1	0	65	<b>66</b>
18-49	10	10	22	119	<b>161</b>
50-64	27	23	28	132	<b>210</b>
65+	70	55	61	314	<b>500</b>
<b>Total</b>	<b>107</b>	<b>89</b>	<b>111</b>	<b>656</b>	<b>963</b>

ISHN Cases by Age Group, 2023-2024



If you'd like to join ISHN, please contact  
Val Tellez Nunez at [telleznunezv@michigan.gov](mailto:telleznunezv@michigan.gov)

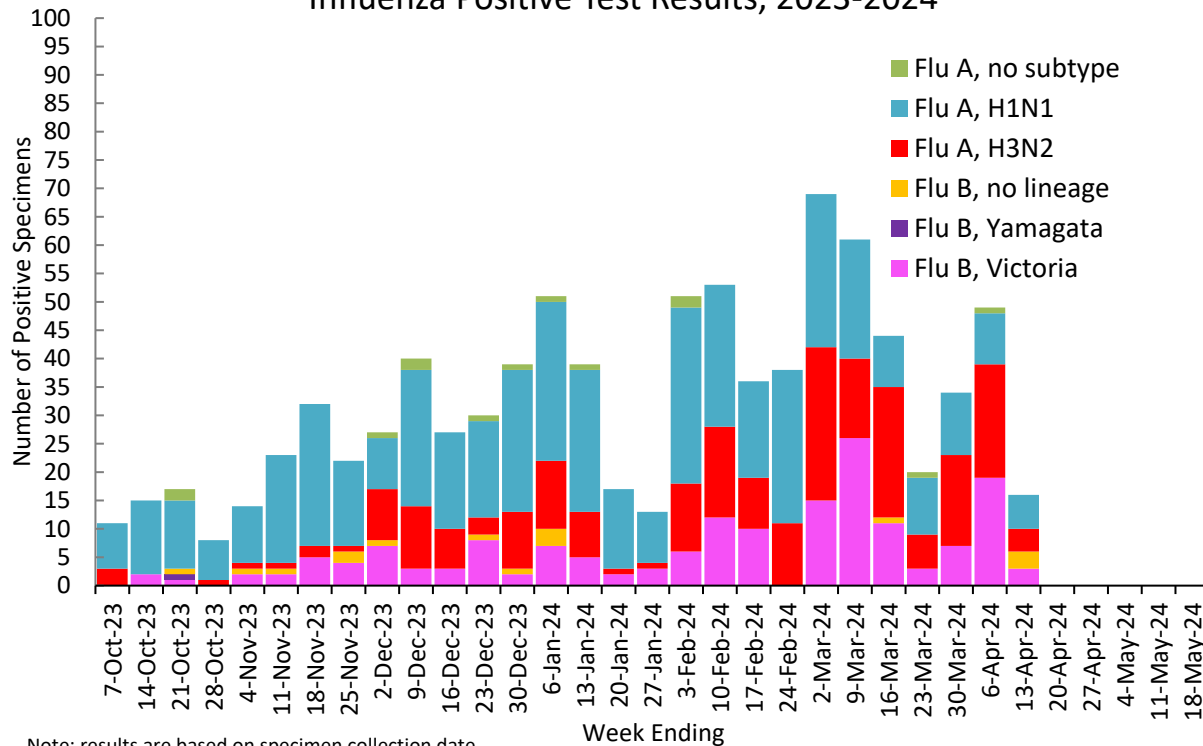
## MDHHS BOL Virology Laboratory Data

There were **16** (12C, 0N, 2SE, 2SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2023-2024 season are summarized below.

# of Positive Influenza Virus Results by Region

	C	N	SE	SW	Total
H1N1	149	9	159	153	470
H3N2	65	7	66	91	229
Infl B	72	3	81	28	184
<b>Total</b>	<b>286</b>	<b>19</b>	<b>306</b>	<b>272</b>	<b>883</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

## Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Six (6) sentinel clinical labs (1SE, 1SW, 3C, 0N) reported for the week ending 4/13/24.

Southeast Region	
Influenza A:	Low - elevated
Influenza B:	Low - elevated
Parainfluenza:	Low - moderate
RSV:	Low
Adenovirus:	Low
hMPV:	Low - moderate
Central Region	
Influenza A:	Low - moderate
Influenza B:	Low - slightly elevated
Parainfluenza:	Slightly Elevated
RSV:	Low - moderate
Adenovirus:	Sporadic - low
hMPV:	Slightly Elevated
Southwest Region	
Influenza A:	Low - moderate
Influenza B:	Low - elevated
Parainfluenza:	Low
RSV:	Low
Adenovirus:	No activity
hMPV:	Low - slightly elevated
North 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

There were **2** (1C, 0N, 0SE, 1SW) influenza outbreaks reported to MDHHS during this time period. Influenza outbreaks for the 2023-2024 season are summarized below.

**# of Influenza Outbreaks by Region**

Facility Type	C	N	SE	SW	Total
Schools: K-12 & College	0	0	5	1	6
Long-term Care / Assisted Living Facility	29	10	15	21	75
Healthcare Facility	1	0	0	0	1
Daycare	0	0	0	0	0
Homeless Shelter	0	0	0	0	0
Correctional Facility	0	0	0	1	1
Other	0	0	0	0	0
<b>Total</b>	<b>30</b>	<b>10</b>	<b>20</b>	<b>23</b>	<b>83</b>

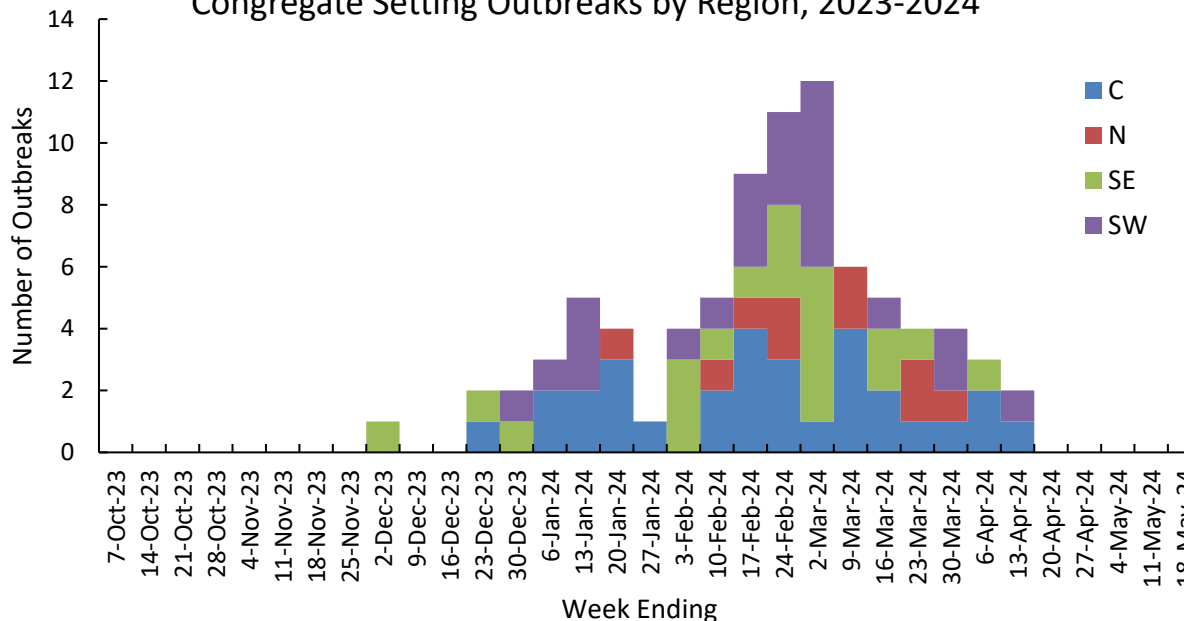
### Did you know?

Congregate setting outbreaks of viral respiratory illness 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](#)
- [Respiratory Virus Outbreaks in Nursing Homes Flow Diagram](#)

Note: Data are reported on laboratory confirmed influenza outbreaks. Non-flu, non-COVID outbreaks and ILI outbreaks without confirmatory flu testing are not reported in the table and graph. **Mixed outbreaks with confirmed flu (including COVID) will be included in the table and graph. There were 0 mixed outbreaks reported during this time period.**

**Congregate Setting Outbreaks by Region, 2023-2024**



## FluVaxView

### FluVaxView Interactive!

[Current Season Dashboard](#)

Accessed at: [FluVaxView](#) | [FluVaxView](#) | [Seasonal Influenza \(Flu\)](#) | [CDC](#)

■ Research • March 26, 2024

## Just Ask: Patients in the ER Are Willing to Get a Flu Shot

Study led by UCSF finds a systematic approach and positive messaging can help to reduce health disparities.

Accessed at: [Just Ask: Patients in the ER Are Willing to Get a Flu Shot](#) | [UC San Francisco \(ucsf.edu\)](#)

## CDC's Influenza Vaccine Effectiveness Networks

[Español](#) | [Other Languages](#) | [Print](#)

Accessed at: [CDC's Influenza Vaccine Effectiveness Networks](#) | [CDC](#)

### Influenza News Blast

- [Flu vaccine reformulation won't be easy, manufacturers warn - STAT \(statnews.com\)](#)
- [Researchers getting closer to a "universal" flu vaccine](#)
- [STUDY: Vaccine Effectiveness Against Life-Threatening Influenza Illness in Children](#)
- [Revising Influenza Vaccine Selection Timeline Could Yield Significant Benefits - MPR \(empr.com\)](#)
- [Flu Disparities Among Racial and Ethnic Minority Groups](#)
- [WHO sees 'incredibly low' COVID, flu vaccination rates as cases surge - GulfToday](#)
- [Mandatory Influenza Vaccination for Healthcare Personnel Honor Roll](#)

### Additional Resources

- [MDHHS Influenza Webpage](#)
- [MDHHS Bureau of Laboratories \(BOL\) Webpage and Test Request Forms](#)
- [Influenza Surveillance in Michigan](#)
- [Immunization Action Coalition: Ask the Experts - Flu](#)
- [CDC Healthcare Professionals Flu Toolkit](#)
- [CDC FluView Weekly Report](#)

### 2023-2024 Influenza Season Preliminary Burden Estimates

The Centers for Disease Control and Prevention (CDC) have released [preliminary in-season burden estimates](#) for the 2023-2024 flu season.

CDC estimates that, from **October 1, 2023 through April 13, 2024** there have been:

- **33 million – 61 million** flu illnesses
- **15 million – 28 million** flu medical visits
- **370,000 – 770,000** flu hospitalizations
- **24,000 – 67,000** flu deaths

## MDHHS Contributors

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### Bureau of Laboratories

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