

# **Michigan Flu Focus**

Weekly Influenza Surveillance Report

January 27, 2023

Vol. 20; No. 15

# Week Ending January 21, 2023 | WEEK 3

Editor: Sue Kim Editor email: <u>KimS2@michigan.gov</u>

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

# Updates of Interest

Nationally, seasonal influenza activity continues to decline across the country. CDC estimates that, so far this season, there have been at least 25 million illnesses, 280,000 hospitalizations, and 17,000 deaths from flu.

Please see CDC's <u>FluView</u> report for more information.

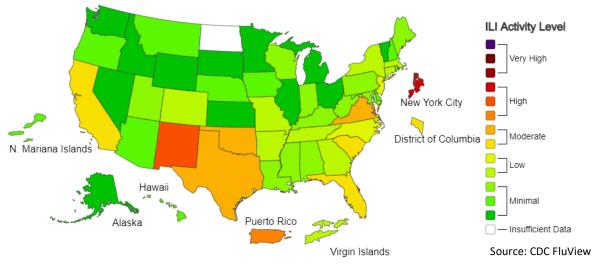
### Seasonal Flu Vaccination Coverage

Michigan's goal is to vaccinate **4 million** residents during the 2022-2023 flu season.

As of January 14, 2023, there have been 2,982,080 doses administered (74.6% towards goal) for the 2022-2023 flu season.

Please visit the Flu Vaccination Dashboard at <u>www.michigan.gov/flu</u> 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. 2022-23 Influenza Season Week 3 ending Jan 21, 2023



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 2022-2023 influenza season

# Influenza-associated Pediatric Mortality

Nationally, 91 influenza-associated pediatric deaths have been reported for the 2022-2023 flu season.

No pediatric deaths have been confirmed by MDHHS for the 2022-2023 flu season to date.

# Influenza-like Illness Outpatient Surveillance

# Week Ending Jan 21, 2023

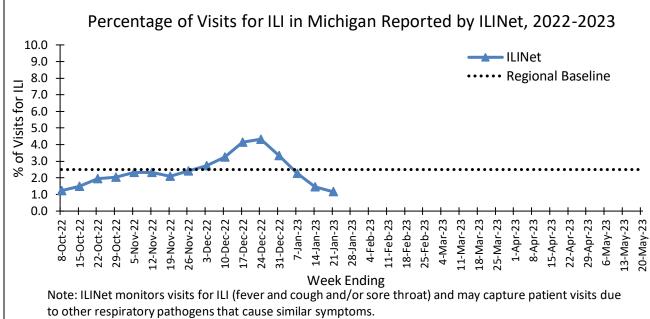
# U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet)

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. One-hundred and forty-one (141) Michigan facilities contributing data to ESSENCE were validated and enrolled in ILINet starting the 2021-2022 flu season.

<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:

Region	С	N	SE	SW
No. of Reporters (149)	49	18	53	29
ILI %	1.3	1.7	1.1	0.9





### Michigan ILI Activity: 1.2%

(Last week: <u>1.5</u>%) Regional Baseline\*: 2.5%

A total of **899** patient visits due to ILI were reported out of **77,708** 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.

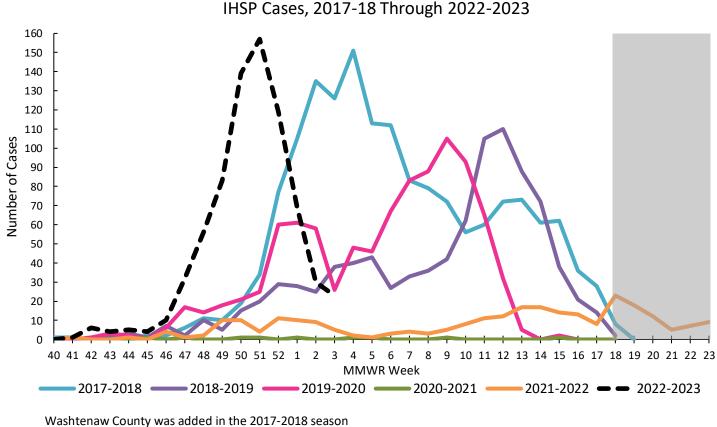
### **National Surveillance**

In the United States, <u>2.6</u>% of outpatient visits were due to ILI (Last week: <u>3.0</u>%) This is **above** the national baseline of 2.5%

# Influenza Hospitalization Surveillance Project (IHSP)

The CDC's Influenza Hospitalization Surveillance Network (FluSurv-NET) provides populationbased 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.

There were **23** (2 pediatric, 21 adult) influenza-associated hospitalizations reported to MDHHS for the IHSP during this time period. Since October 1<sup>st</sup>, <u>738</u> (126 pediatric, 612 adult) influenza-associated hospitalizations were reported in the catchment area for the 2022-2023 season.



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

# Join the Influenza Sentinel Hospital Network (ISHN)!

<u>What is it?</u> ISHN is a group of hospitals in Michigan that voluntarily report weekly aggregate counts of influenza positive inpatients to assist MDHHS with statewide influenza surveillance.

How it works: As a participating hospital in the ISHN, you would complete a brief Survey Monkey every week containing:

- Number of hospitalizations with a positive influenza test by age group during that time period
- The total number of hospitalizations due to any condition during that time period (if available)

The data you provide will assist public health in recognizing changes in the age or geographic distribution of influenza in this population.

If your facility is interested in participating or would like more information, please contact Sue Kim (<u>KimS2@michigan.gov</u>)

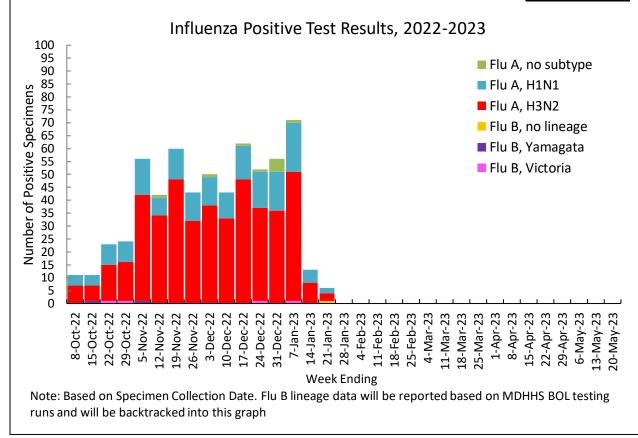
# Laboratory (Virologic) Surveillance

### **MDHHS BOL Virology Laboratory Data**

There were <u>6</u> (2C, 0N, 1SE, 3SW) positive influenza results reported by the MDHHS Bureau of Laboratories (BOL) during this time period. Positive flu results for the 2022-2023 season are summarized below.

#### # of Positive Influenza Virus Results by Region

	С	N	SE	SW	Total
H1N1	41	4	70	42	157
H3N2	93	2	172	182	449
Infl B	1	0	6	0	7
Total	135	6	248	224	613



#### Michigan Sentinel Clinical Lab Network Respiratory Virus Data

Eight (8) sentinel clinical labs (2SE, OSW, 5C, 1N) reported for the week ending 1/21/2023.

	Southeast Region
Influenza A:	moderate
Influenza B:	sporadic – low
Parainfluenza:	low – slightly elevated
RSV:	elevated – moderate
Adenovirus:	elevated
hMPV:	slightly elevated
	Central Region
Influenza A:	low – moderate
Influenza B:	sporadic – low
Parainfluenza:	low
RSV:	low – elevated
Adenovirus:	low
hMPV:	low
	Southwest 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:	low
Influenza B:	no activity
Parainfluenza:	sporadic
RSV:	slightly elevated
	and a set of the set
Adenovirus:	no activity
Adenovirus: hMPV:	sporadic – low

There were <u>2</u> (OC, ON, 1SE, 1SW) influenza outbreaks reported to MDHHS during this time period. Influenza outbreaks for the 2022-2023 season are summarized below.

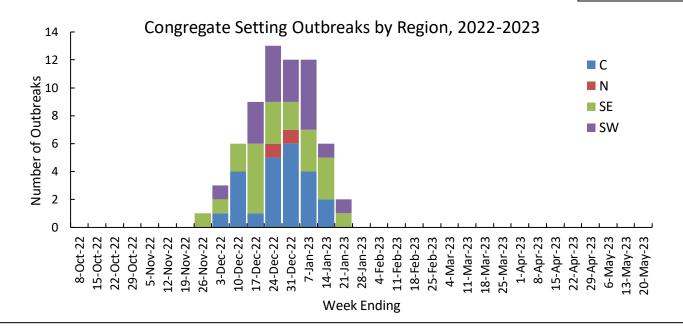
# of Influenza Outbreaks by MI Region						
Facility Type	С	N	SE	SW	Total	
Schools: K-12 & College	2	0	7	0	9	
Long-term Care / Assisted Living Facility	20	2	12	16	49	
Healthcare Facility	0	0	1	1	2	
Daycare	0	0	0	0	0	
Homeless Shelter	0	0	0	0	0	
Correctional Facility	1	0	1	2	4	
Other	0	0	0	0	0	
Total	23	2	21	18	64	

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

### Did you know?

Congregate setting outbreaks of viral respiratory illness are <u>required</u> to be reported to your local health department? See:

- Influenza Guidance for
  Healthcare Providers
- <u>Guideline for influenza and</u>
  <u>Respiratory Virus Outbreaks in</u>
  <u>Long-Term Care Facilities</u>
- NEW! <u>Respiratory Virus</u>
  <u>Outbreaks in Nursing Homes</u>
  <u>Flow Diagram</u>



# Flu Bytes

### Early and Increased Influenza Activity Among Children – Tennessee, 2022-23 Influenza Season

During the fall of 2022, after several low-severity influenza seasons, many states reported early respiratory virus activity at significantly higher levels than is typically observed. Information on the impact of early influenza activity was limited. <u>This report</u> describes a field investigation that occurred in November 2022 after reports of increased influenza hospitalizations were observed in Tennessee.

Data from various surveillance networks, patient surveys, and whole genome sequencing of influenza virus specimens were analyzed to assess influenza activity and secondary influenza illness risk. Weekly, data on emergency department visits for influenza-like illness and influenza-associated hospitalizations were obtained from the Electronic Surveillance System for the Early Notification of Community- Based Epidemics (ESSENCE) and FluSurv-NET surveillance systems, respectively and compared to data from previous seasons.

Influenza activity increased earlier than usual among all age groups, and rates of fluassociated hospitalizations among children were high in November, reaching 12.6 per 100,000 in children aged 5 years and younger, comparable to peak levels typically seen in high-severity seasons. Circulating influenza viruses were determined to be genetically similar to vaccine components.

As the influenza season continues, it is vital for all persons, especially those at higher risk for severe illness due to influenza, to protect themselves from influenza. The CDC recommends influenza vaccination as the primary means to prevent influenza and severe influenza complications. All persons aged 6 months and older should get vaccinated annually, avoid contact with ill persons, and take influenza antivirals if recommended and prescribed. Please visit <u>www.cdc.gov/flu</u> and <u>www.michigan.gov/flu</u> for more information.

### Influenza News Blast

- <u>Researchers getting closer to a</u> <u>"universal" flu vaccine</u>
- <u>STUDY: Vaccine Effectiveness</u>
  <u>Against Life-Threatening Influenza</u>
  Illness in Children
- <u>STUDY: Comparison between</u>
  <u>Patients Hospitalized with Influenza</u>
  <u>and COVID-19 at a Tertiary Care</u>
  <u>Center</u>
- <u>Flu Disparities Among Racial and</u> <u>Ethnic Minority Groups</u>
- World Health Organization (WHO) Influenza Update
- <u>Mandatory Influenza Vaccination</u> for Healthcare Personnel Honor Roll

### **Additional Resources**

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

View Michigan Flu Focus Report archives here.

### 2022-2023 Influenza Season Preliminary Burden Estimates

The Centers for Disease Control and Prevention (CDC) have released preliminary in-season burden estimates for the 2022-2023 flu season.

CDC estimates that, from **October 1, 2022** through January 21, 2023 there have been:

- 25 million 49 million flu illnesses
- 12 million 24 million flu medical visits
- 280,000 600,000 flu hospitalizations
- 17,000 52,000 flu deaths

### **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

To be added to the distribution list, please contact Sue Kim at <u>KimS2@michigan.gov</u>