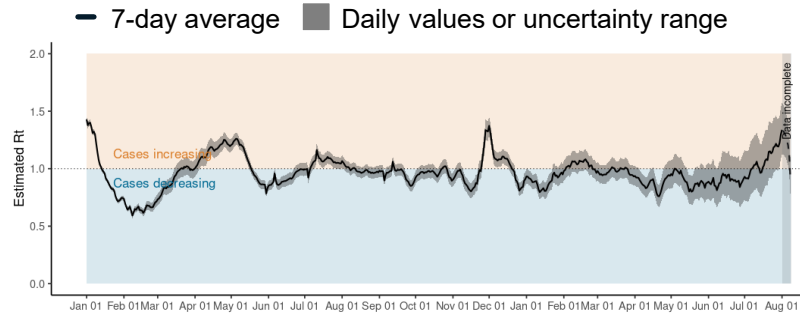


# **MI COVID RESPONSE DATA AND MODELING UPDATE**

August 15, 2023

# Recent statewide trends show COVID is increasing but remain relatively low

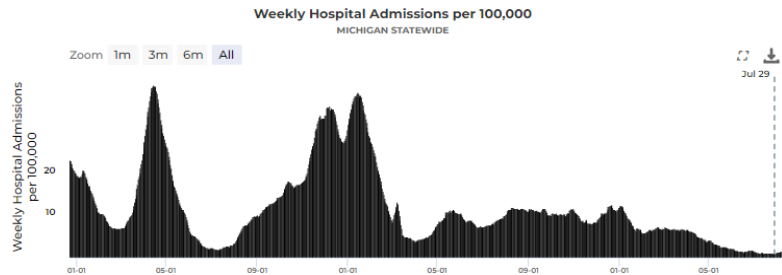
## Statewide trends



Current: 1.34  
Last Week: 1.15

Reproductive Number,  $R_t$

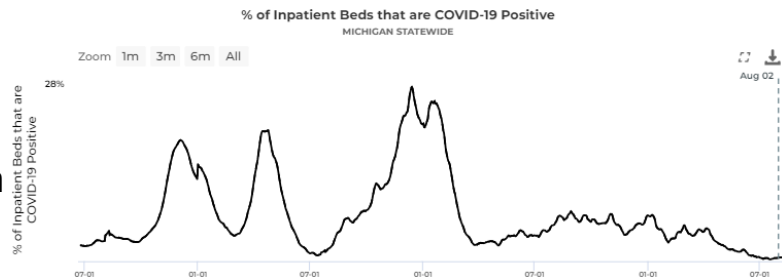
- The reproductive number ( $R_t$ ) in Michigan is above 1 indicating cases are increasing



Current: 1.5  
Last Week: 1.2

Hospital Admissions\*

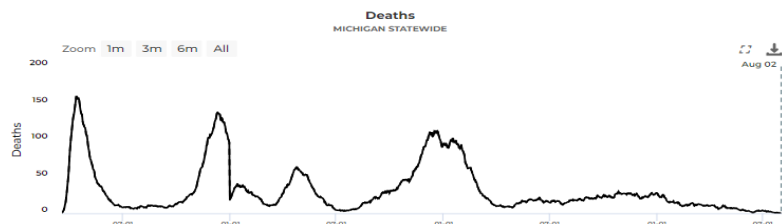
- There has been a daily average of 1.5 hospital admissions per 100,000 Michiganders which is an increase from the previous week but remain relatively low compared to other times during the pandemic



Current: 0.7%  
Last Week: 0.6%

Daily hospitalization rate, %

- The percent of inpatient beds with COVID-19 positive patients (0.7%) are slightly increasing compared to the previous week but are near 52-week lows



Current: 0.01  
Last Week: 0.10

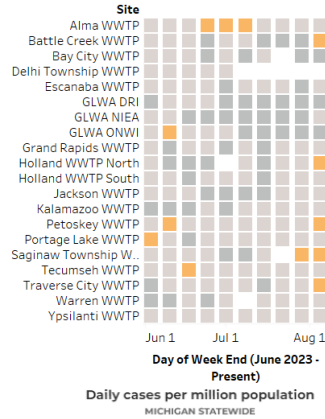
Deaths

- Deaths are a lagging indicator and remain plateaued over the past week

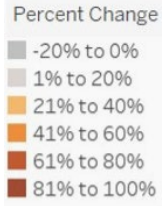
# Recent statewide trends show COVID is increasing but remain relatively low

## Statewide trends

— 7-day average ■ Daily values



## Wastewater

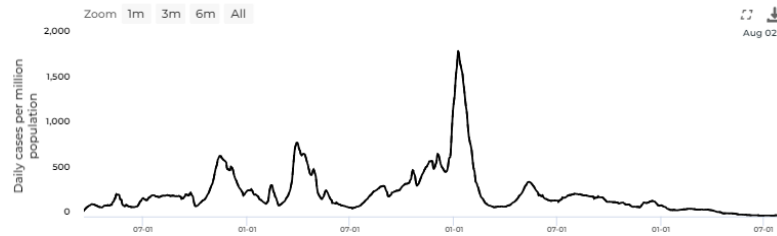


Current: 26% of sites are above 20% baseline threshold

Last Week: 5% of sites are above 20% baseline threshold

- 26% (5/19) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

## Daily cases per million

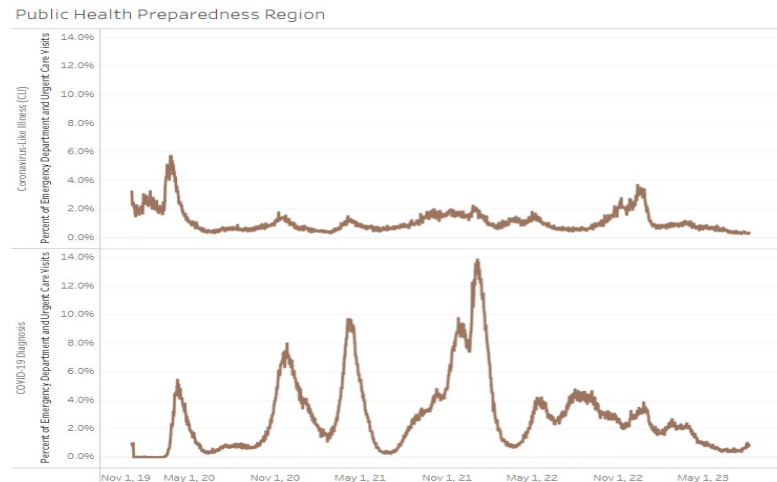


Current: 18.2

Last Week: 12.2

- Case rates have increased compared to last week. The currently levels are near pandemic lows not last seen since March 2020

## Syndromic Surveillance



Coronavirus-Like-Illness (CLI)

Current: 0.3%

Last Week: 0.3%

COVID-19 Diagnosis

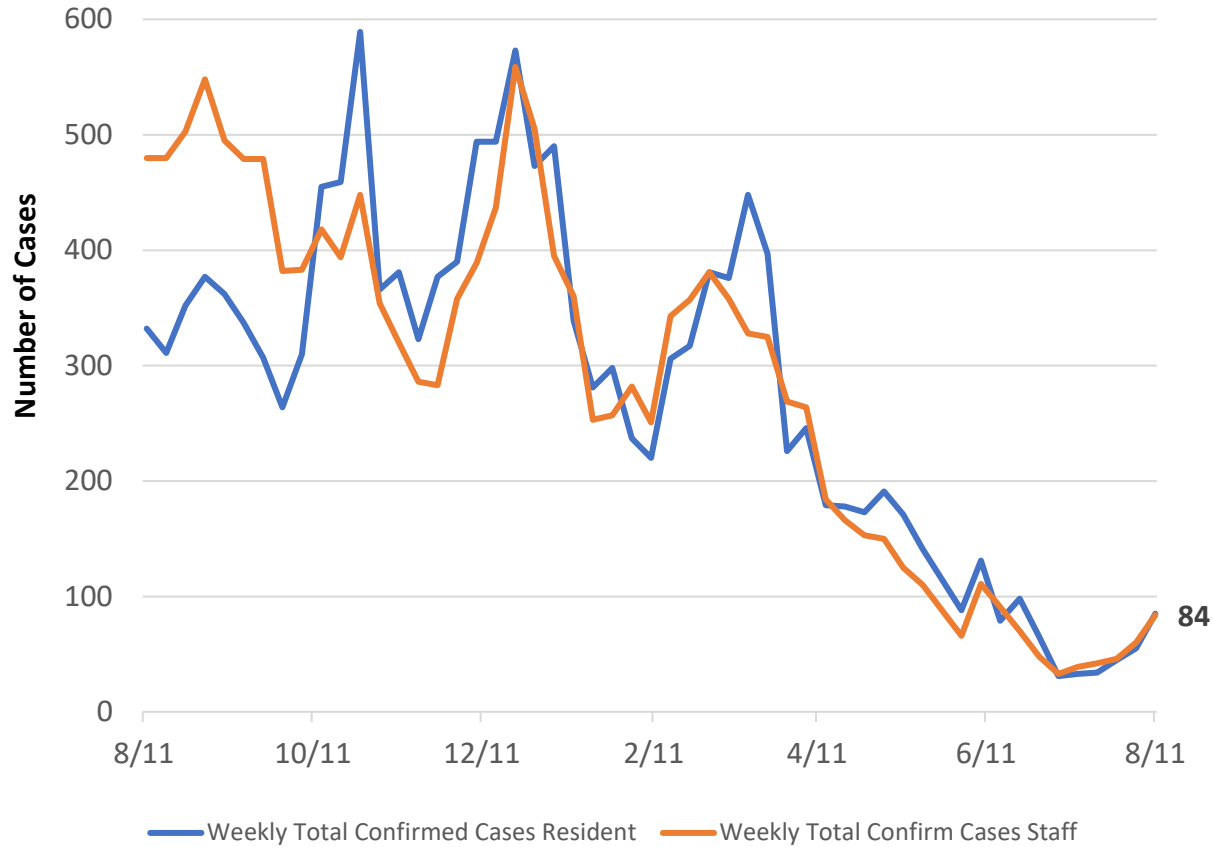
Current: 0.9%

Last Week: 0.6%

- Syndromic trends in emergency departments and urgent cares both remain near 52-week lows, however, COVID-19 diagnosis is increasing

# COVID-19 Cases Among Staff and Residents in Long Term Care Facilities

State of Michigan Weekly Total Confirmed COVID-19 Cases in SNF Residents and Staff 8/12/2022 to 8/11/2023



Number of SNFs with 3 or more Confirmed Cases 8/12/2022 to 8/11/2023



- Case counts increased in SNF residents (55 to 85) and in SNF staff (60 to 84) since last week [left graphic]
- The number of SNF facilities reporting 3 or more cases increased since last week (4 to 9) [right graphic]

Abbreviations: AFC: Adult Foster Care; HFAs: Homes for the Aged; and SNF: Skilled Nursing Facilities

Update through August 15, 2023

Note: The data are from weekly reporting by facilities with bed occupancy of at least 13 beds.

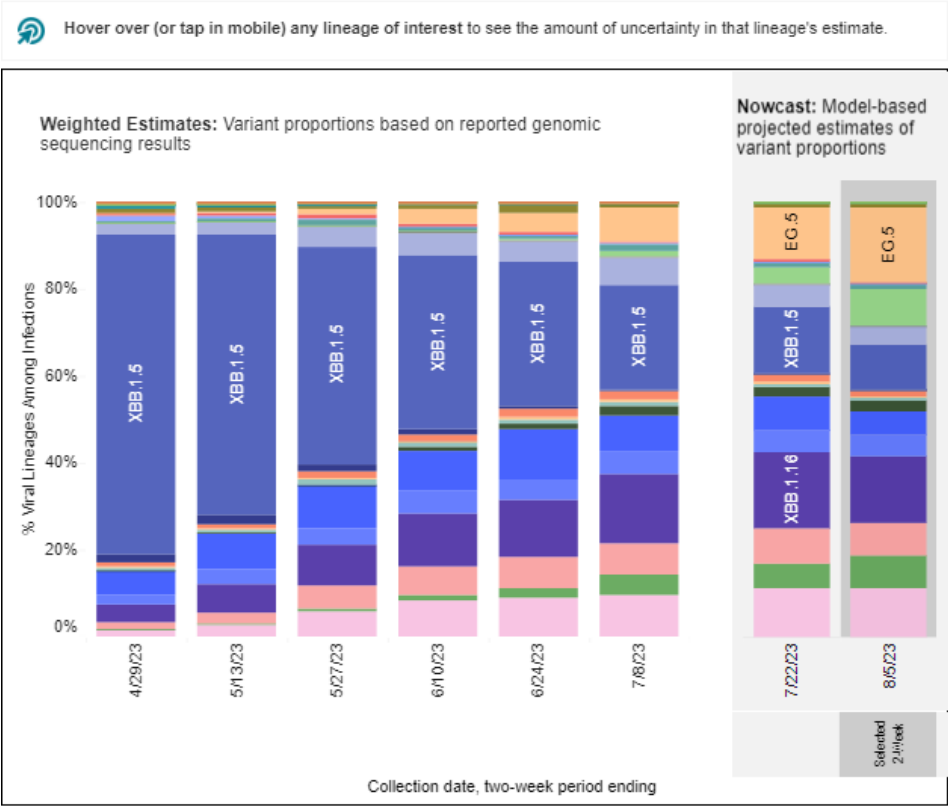
Source: Data is now provided through NHSN, data prior to May 19 was from Michigan EM Resource

# Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: Omicron lineages continue to evolve; all competing for predominance

## SARS-CoV-2 Variants Circulating in the United States, Apr 16 – Aug 5 (NOWCAST)

Weighted and Nowcast Estimates in United States for 2-Week Periods in 4/16/2023 – 8/5/2023

Nowcast Estimates in United States for 7/23/2023 – 8/5/2023



		USA		
WHO label	Lineage #	%Total	95%PI	
Omicron	EG.5	17.3%	14.1-21.0%	
	XBB.1.16	15.6%	12.5-19.2%	
	XBB.2.3	11.2%	9.5-13.1%	
	XBB.1.5	10.3%	8.6-12.3%	
	FL.1.5.1	8.6%	4.2-16.1%	
	XBB.1.16.6	7.7%	5.6-10.6%	
	XBB.1.16.1	7.2%	6.0-8.7%	
	XBB.1.9.1	5.4%	4.5-6.5%	
	XBB.1.9.2	4.8%	3.5-6.6%	
	XBB	4.4%	3.1-6.1%	
	XBB.1.5.72	2.4%	1.6-3.7%	
	XBB.1.5.10	1.2%	0.7-1.9%	
	FE.1.1	1.1%	0.6-2.1%	
	CH.1.1	1.1%	0.6-1.9%	
	XBB.1.5.68	0.6%	0.4-1.0%	
	XBB.1.5.59	0.4%	0.2-0.8%	
EU.1.1	0.3%	0.2-0.6%		
XBB.1.5.1	0.2%	0.1-0.2%		
BA.2	0.0%	0.0-0.1%		
BA.2.12.1	0.0%	0.0-0.1%		
FD.2	0.0%	0.0-0.0%		
BA.5	0.0%	0.0-0.0%		
BQ.1.1	0.0%	0.0-0.0%		
BQ.1	0.0%	0.0-0.0%		
Other	Other*	0.1%	0.0-0.1%	

### National Distribution

- 100% of the VOCs currently circulating in the U.S. are Omicron
- Nowcast estimates project that EG.5 (17.3%, 95% P.I. 14.1-21.0%) is now the most prevalent, while XBB.1.16 comprise of approximately 15.6% of infections (95% P.I. 12.5-19.2%), XBB.2.3 comprise of 11.2% of infections (95% P.I. 9.5-13.1%), and XBB.1.5 comprise of 10.3% of infections (95% P.I. 8.6-12.3%), while all other lineages are estimated to comprise of less than 10% during the week ending on August 5.

### Distribution in Michigan

- Since May 15, there have been 263 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
  - Since May 1, a majority of specimens sequenced and reported have been identified as XBB or one of the child lineages; currently 27.8% of specimens have been identified as XBB.1.5, the highest of any of the XBB lineages in Michigan

\* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one 2-week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all 2-week periods displayed.  
 # BA.1, BA.3 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. Except BA.2.12.1, BA.2.75, XBB and their sublineages, BA.2 sublineages are aggregated with BA.2. Except BA.2.75.2, CH.1.1 and BN.1, BA.2.75 sublineages are aggregated with BA.2.75. Except BA.4.6, sublineages of BA.4 are aggregated to BA.4. Except BF.7, BF.11, BA.5.2.6, BQ.1 and BQ.1.1, sublineages of BA.5 are aggregated to BA.5. Except the lineages shown and their sublineages, sublineages of XBB are aggregated to XBB. Except XBB.1.5.1, XBB.1.5.10, FD.2, EU.1.1 and XBB.1.5.68 sublineages of XBB.1.5 are aggregated to XBB.1.5. Except FL.1.5.1, sublineages of XBB.1.9.1 are aggregated to XBB.1.9.1. Except XBB.1.16.1, sublineages of XBB.1.16 are aggregated to XBB.1.16. Except FE.1.1, sublineages of XBB.1.18.1 are aggregated to XBB. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, FL.1.5.1 was aggregated to XBB.1.9.1. Lineage BA.2.75.2, XBB, XBB.1.5, XBB.1.5.1, XBB.1.5.10, FD.2, XBB.1.9.1, XBB.1.9.2, XBB.1.16, XBB.1.16.1, XBB.2.3, BN.1, BA.4.6, BF.7, BF.11, BA.5.2.6, BQ.1.1, EU.1.1, XBB.1.5.68, FE.1.1, EG.5, XBB.1.5.72 and FL.1.5.1 contain the spike substitution R346T

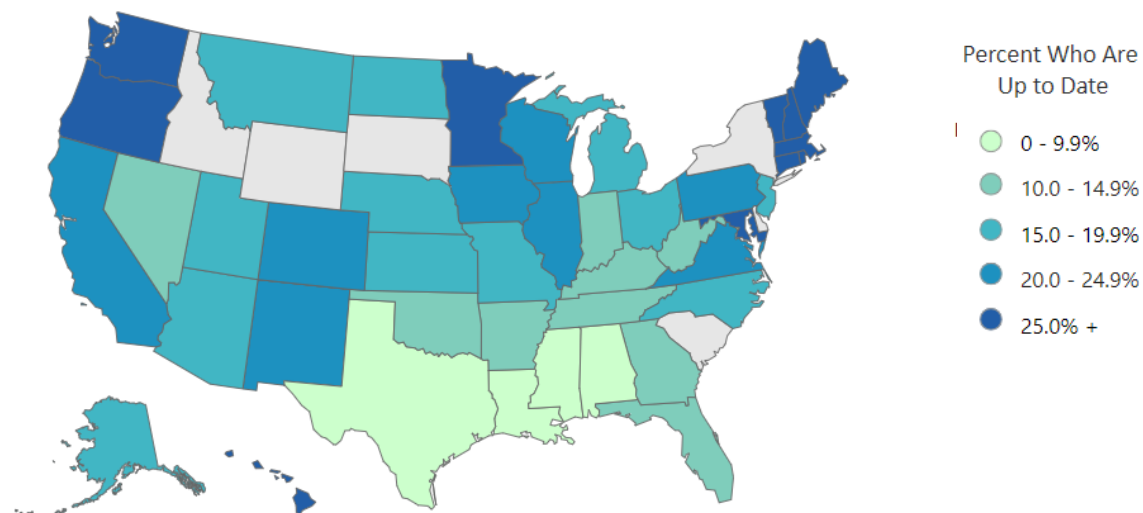
95% P.I. = 95% prediction interval

Data last updated Aug 7, 2023

Source: CDC COVID Data Tracker: Genomic Surveillance and Michigan's MDSS; sequence data may take up to four weeks to process and get reported back to health departments

# Nearly 20% of Michiganders are Up to Date with COVID-19 Vaccines

Percent of the Total Population Who Are Up to Date with COVID-19 Vaccines Administrations through July 31, 2023



## Vaccination Up-to-Date Coverage

The percentage of all Michiganders who are up to date with their COVID-19 vaccines is 19.3%

51.4% of the population 65 years of age or older are up to date with their COVID-19 vaccines

## Race/Ethnicity<sup>¶</sup> for those 6 months and older:

- Up-to-date coverage is highest among Non-Hispanic (NH) White (16.7%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (16.2%), NH American Indian (12.9%), and NH Black or African American races (9.7%).
- Up-to-date coverage is at 11.5% for Hispanics

\*This shows the percentage of all residents of all ages

## Coverage by Race\*

Update through August 8, 2023

