

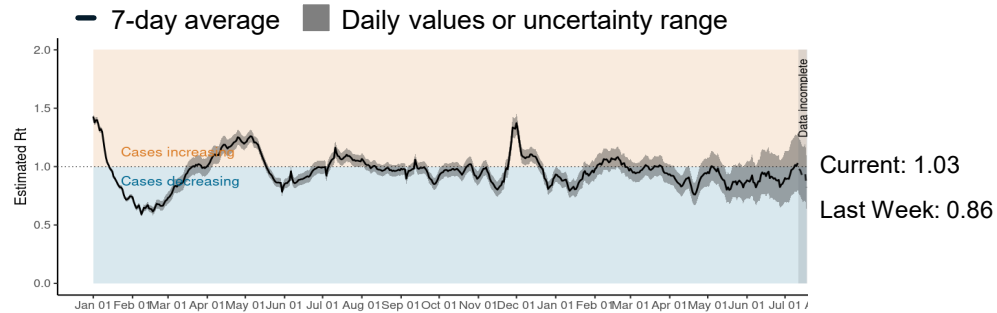
# **MI COVID RESPONSE DATA AND MODELING UPDATE**

July 25, 2023

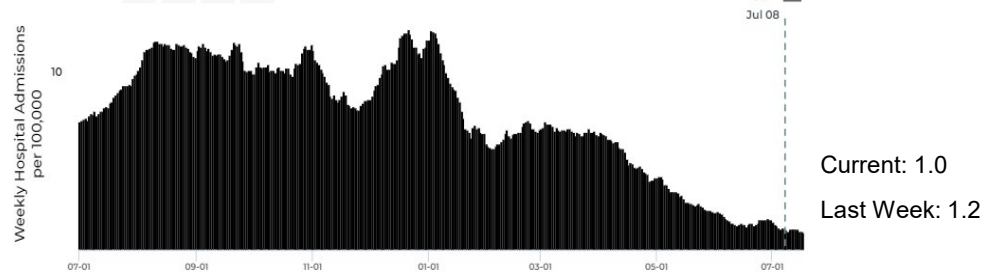
# Recent statewide COVID trends show many indicators are near annual lows

## Statewide trends

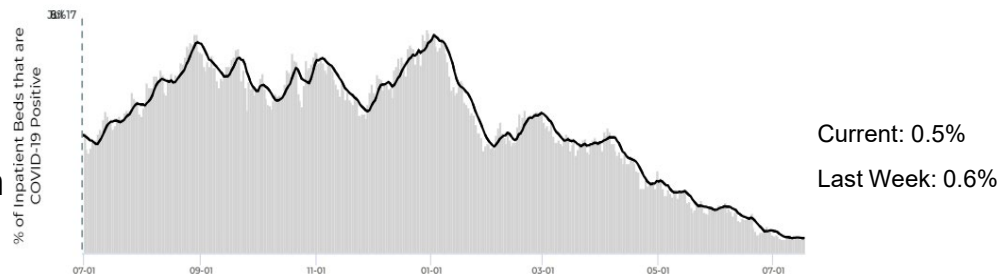
### Reproductive Number, $R_t$



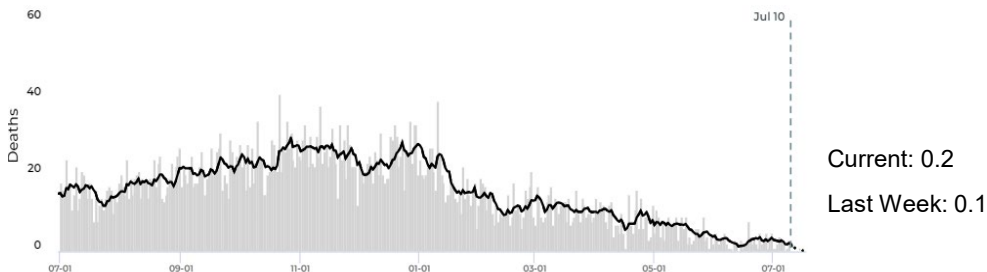
### Hospital Admissions\*



### Daily hospitalization rate, %



### Deaths

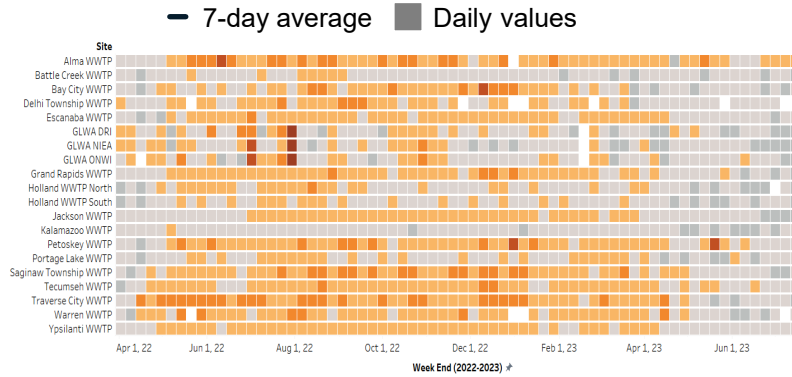
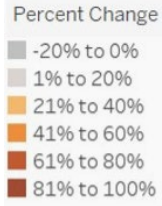


- The reproductive number ( $R_t$ ) in Michigan is just above 1 indicating near plateau
- There has been a daily average of 1.0 hospital admissions per 100,000 Michiganders which is lower than the previous week
- The percent of inpatient beds with COVID-19 positive patients (0.5%) have declined from last week and are at 52-week lows
- Deaths are a lagging indicator but are plateaued over the past week and are at 52-week lows

# Recent statewide COVID trends show many indicators are near annual lows

## Statewide trends

### Wastewater

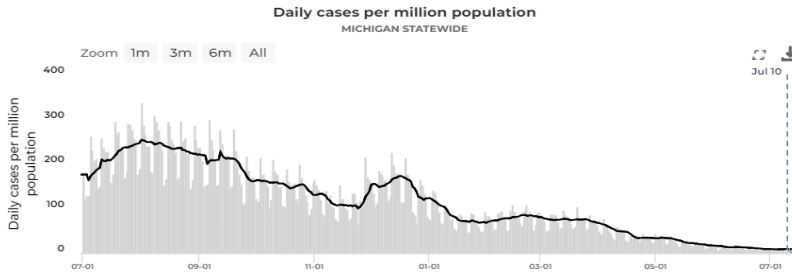


Current: 5% of sites are above 20% baseline threshold

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

- 5% (1/19) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week; and 47% (9/19) of wastewater sentinel sites have reported levels that are between 0% and 20% *below* baseline threshold levels

### Daily cases per million



Current: 9.5  
Last Week: 8.8

- Case rates are plateaued compared to last week and are currently near 52-week lows

### Syndromic Surveillance



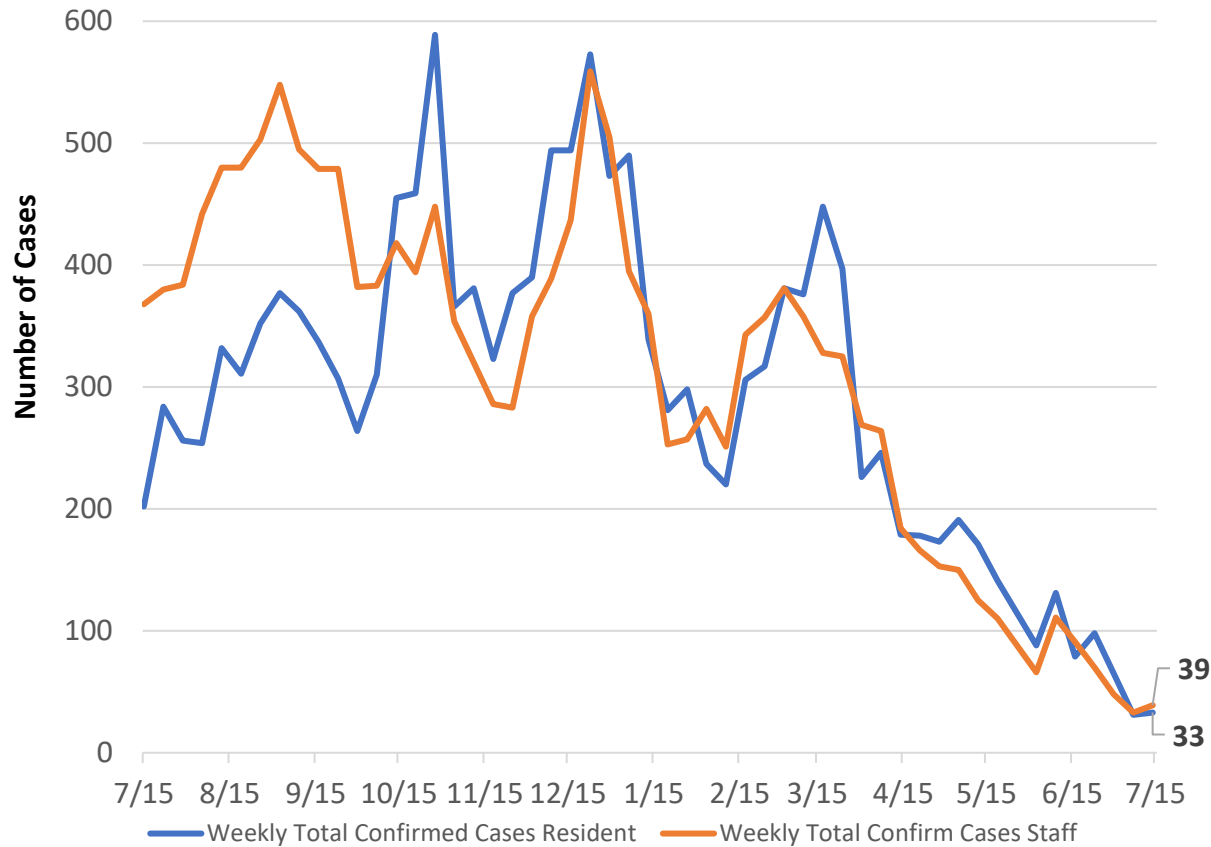
Coronavirus-Like-Illness (CLI)  
Current: 0.3%  
Last Week: 0.3%

COVID-19 Diagnosis  
Current: 0.6%  
Last Week: 0.5%

- Syndromic trends in emergency departments and urgent cares both saw plateaus this week compared to last week and remain near 52-week lows

# 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 7/15/2022 to 7/14/2023



Number of SNFs with 3 or more Confirmed Cases 7/22/2022 to 7/21/2023



- Case counts increased slightly in SNF residents (33 to 34) and in SNF staff (39 to 42) since last week [left graphic]
- The number of SNF facilities reporting 3 or more cases increased slightly since last week (2 to 3) [right graphic]

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

Update through July 18, 2023

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

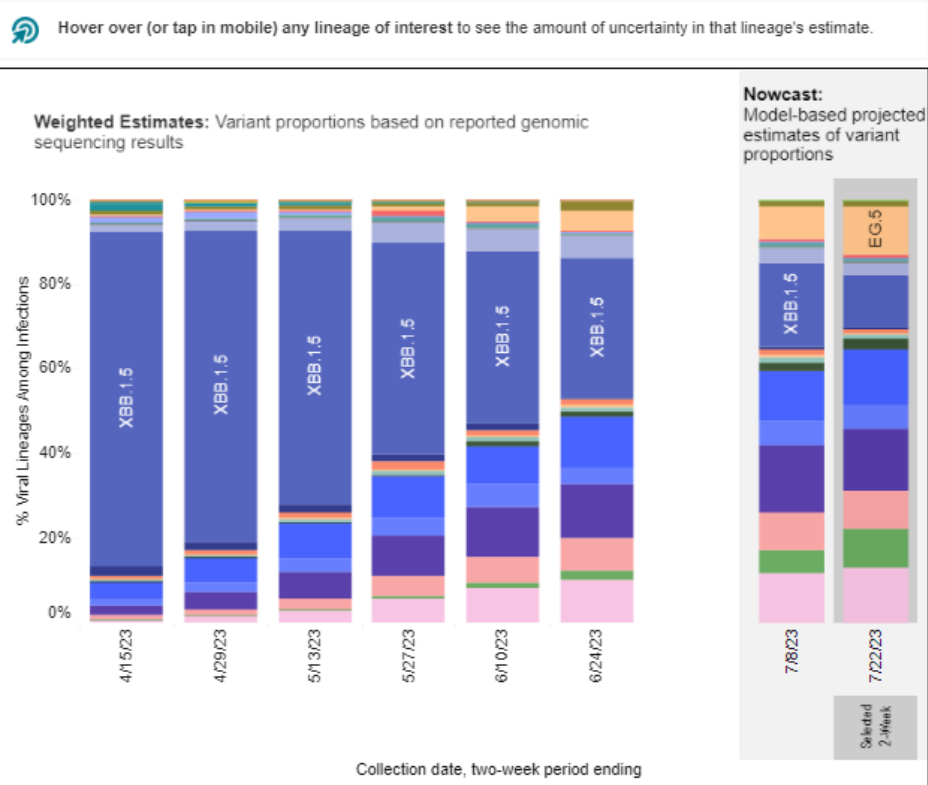
Source: Data is now provided through NHSN, data prior to May 19 was from Michigan EM Resource

# Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: Several Lineages of XBB all Competing for Predominance

## SARS-CoV-2 Variants Circulating in the United States, Apr 2 – Jul 22 (NOWCAST)

Weighted and Nowcast Estimates in United States for 2-Week Periods in 4/2/2023 – 7/22/2023

Nowcast Estimates in United States for 7/9/2023 – 7/22/2023



USA			
WHO label	Lineage #	%Total	95%PI
Omicron	XBB.1.16	14.8%	12.2-17.8%
	XBB.1.9.1	13.2%	8.3-20.3%
	XBB.2.3	13.0%	10.4-16.1%
	XBB.1.5	12.3%	10.2-14.7%
	EG.5	11.4%	8.3-15.3%
	XBB.1.16.6	9.3%	5.4-15.4%
	XBB.1.16.1	8.8%	7.4-10.4%
	XBB.1.9.2	5.6%	4.0-7.8%
	XBB	3.0%	1.8-4.9%
	XBB.1.5.72	2.2%	1.2-3.9%
	CH.1.1	1.7%	0.8-3.6%
	FE.1.1	1.1%	0.6-2.0%
	XBB.1.5.68	1.0%	0.6-1.7%
	XBB.1.5.10	1.0%	0.6-1.6%
	EU.1.1	0.6%	0.3-1.0%
	XBB.1.5.59	0.4%	0.2-1.0%
XBB.1.5.1	0.3%	0.2-0.5%	
FD.2	0.0%	0.0-0.1%	
BA.2	0.0%	0.0-0.0%	
BN.1	0.0%	0.0-0.0%	
BQ.1.1	0.0%	0.0-0.0%	
BA.5	0.0%	0.0-0.0%	
BQ.1	0.0%	0.0-0.0%	
BA.2.75	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 XBB.1.16 (14.8%, 95% P.I. 12.2-17.8%) is now the most prevalent for now, while XBB.1.9.1 comprise of 13.2% of infections (95% P.I. 8.3-20.3%), XBB.2.3 comprise of 13.0% of infections (95% P.I. 10.4-16.1%), XBB.1.5 comprise of 12.3% of infections (95% P.I. 10.2-14.7%), and EG.5 comprise of approximately 11.4% of infections (95% P.I. 8.3-15.3%), while all other lineages comprise of less than 10% during the week ending on July 22.

### Distribution in Michigan

- Since May 1, there have been 430 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 33.7% 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.4.8, 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, XBB.1.5.68 and XBB.1.5.72, sublineages of XBB.1.5 are aggregated to XBB.1.5. Except XBB.1.16.1, sublineages of XBB.1.16 are aggregated to XBB.1.16. Except FE.1.1, sublineages of XBB.1.16.1 are aggregated to XBB.1.16.1. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, EU.1.1, XBB.1.5.68 and XBB.1.5.72 was aggregated to XBB.1.5, FE.1.1 was aggregated to XBB.1.9.2, XBB.1.9.2, Lineages 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 and XBB.1.5.72 contain the spike substitution R346T.

# 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 June 30, 2023

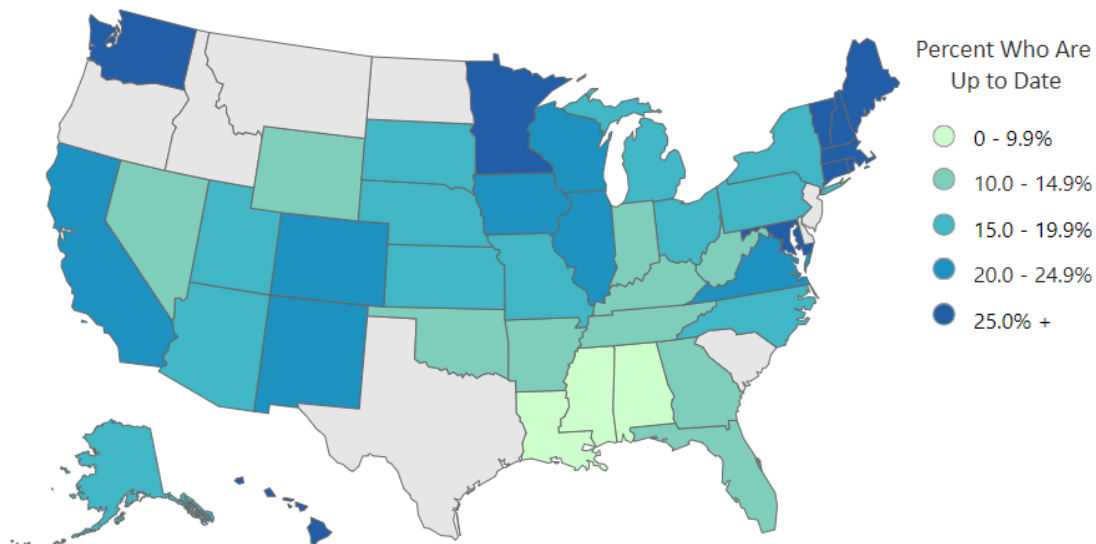
## Vaccination Up-to-Date Coverage

The percentage of all Michiganders who are up to date with their COVID-19 vaccines is 19.1%

50.8% 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 (16.6%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (16.0%), NH American Indian (12.8%), and NH Black or African American races (9.6%).
- Up-to-date coverage is at 11.3% for Hispanics



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

## Coverage by Race\*

Update through July 11, 2023

