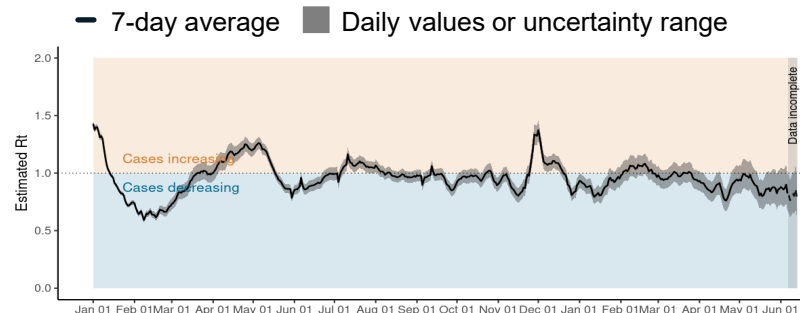


# **MI COVID RESPONSE DATA AND MODELING UPDATE**

June 20, 2023

# Recent statewide COVID trends continue to show indicators at annual lows

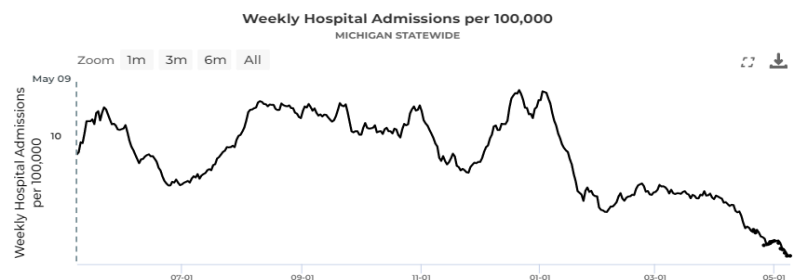
## Statewide trends



**Reproductive Number,  $R_t$**

Current: 0.82  
Last Week: 0.82

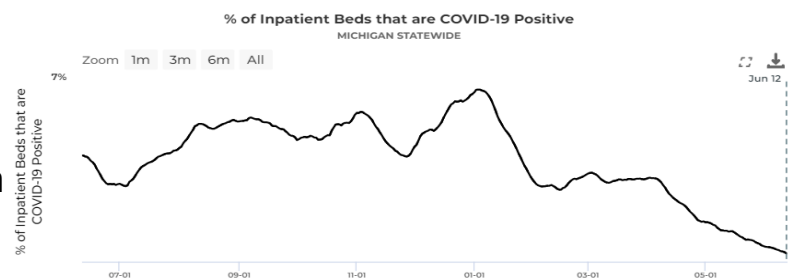
- The reproductive number ( $R_t$ ) in Michigan is just below 1 indicating slow decline



**Hospital Admissions\***

Current\*: 3.4  
Last Week: 4.2

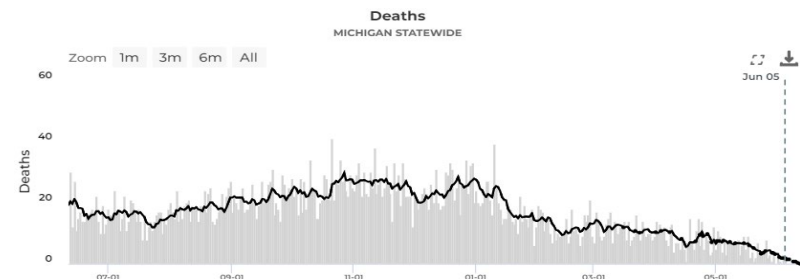
- There has been a daily average of 3.4 hospital admissions per 100,000 Michiganders which is lower than the previous week\*



**Daily hospitalization rate, %**

Current: 1.2%  
Last Week: 1.5%

- The percent of inpatient beds with COVID-19 positive patients (1.2%) have declined from last week and are at 52-week lows



**Deaths**

Current: 0.2  
Last Week: 0.4

- Deaths are a lagging indicator but are plateaued over the past week and are near 52-week lows

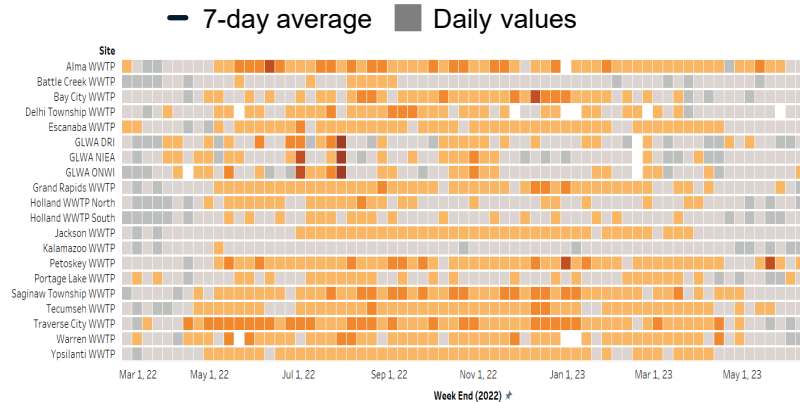
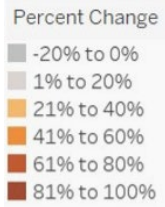
\* Hospital Admissions are derived from the CDC COVID Data Tracker and the national data repository is transitioning and will be updated once available; currently reporting is through May 9

Source: <https://mistartmap.info/>; MiStartMap data did not update this week due to ending of PHE; data feeds will resume shortly

# Recent statewide COVID trends continue to show indicators at annual lows

## Statewide trends

### Wastewater



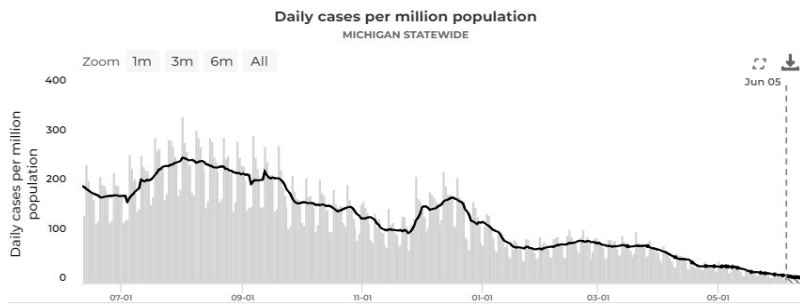
Current: 10% of sites are above 20% baseline threshold

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

- 10% (2/20) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

- Case rates have declined compared to last week and are currently at 52-week lows

### Daily cases per million

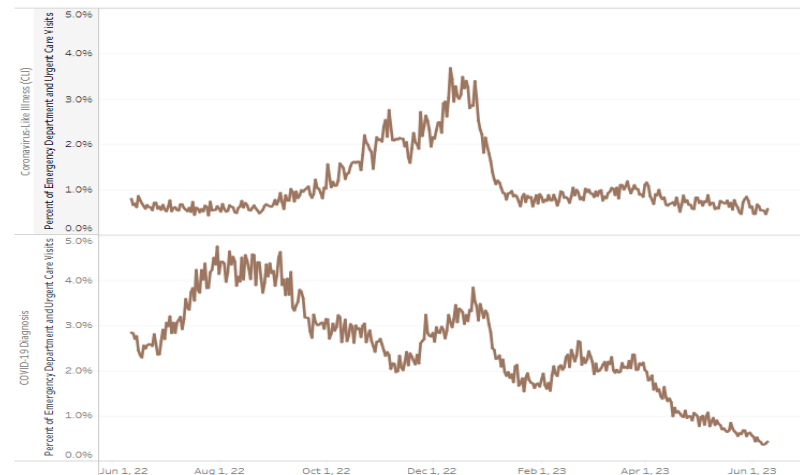


Current: 15.6

Last Week: 17.2

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

### Syndromic Surveillance



Coronavirus-Like-Illness (CLI)

Current: 0.6%

Last Week: 0.9%

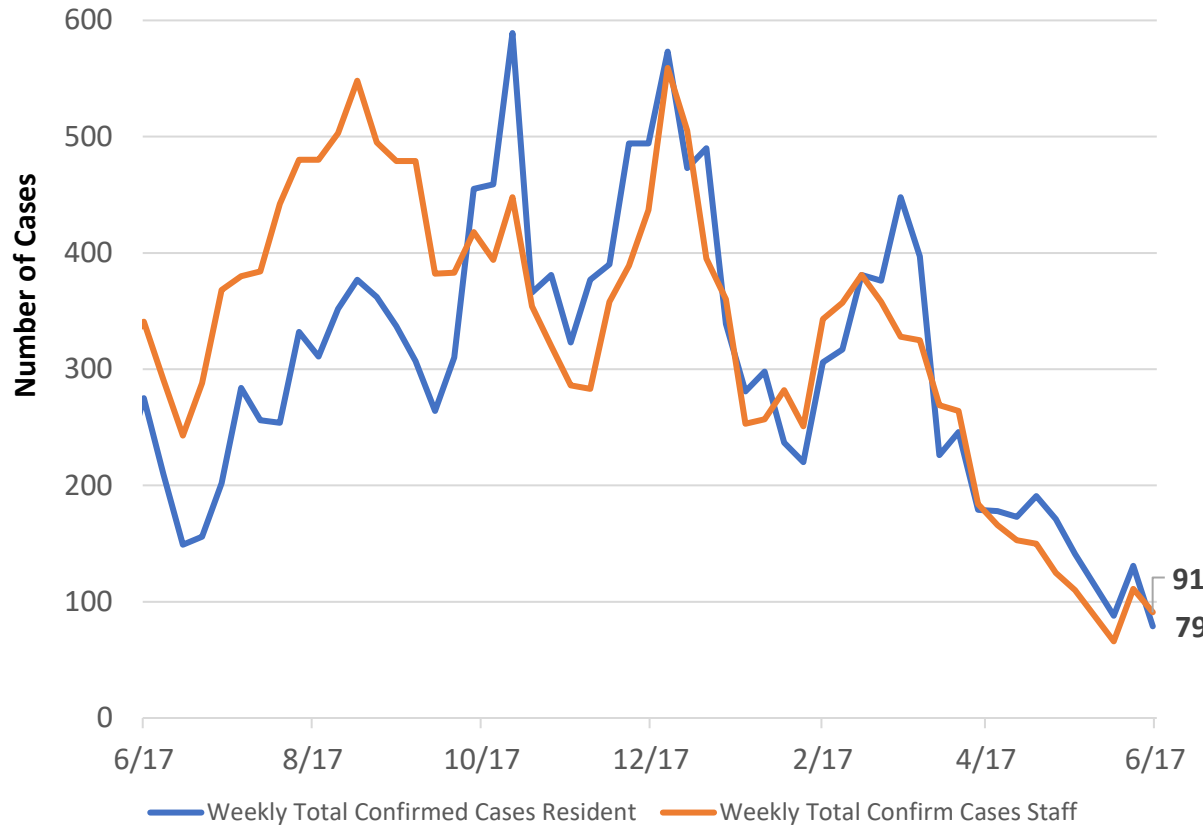
COVID-19 Diagnosis

Current: 0.4%

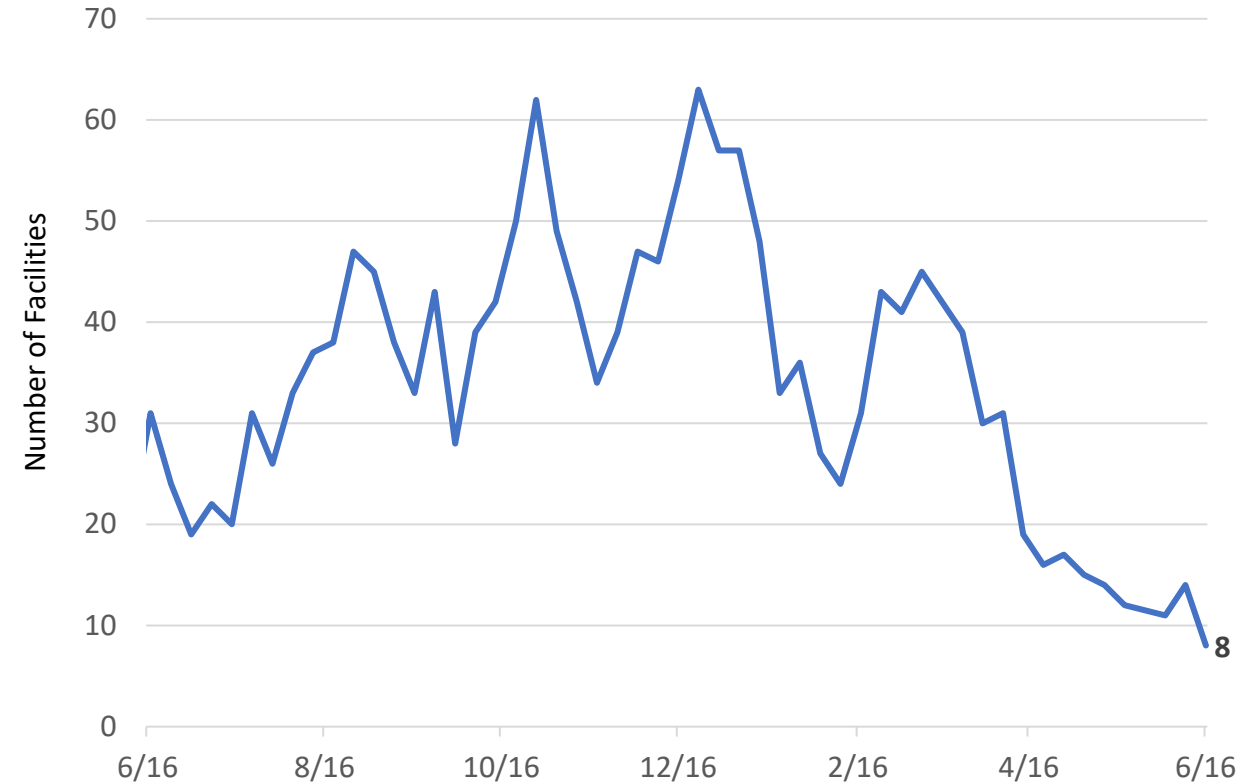
Last Week: 0.8%

# 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 6/17/2022 to 6/16/2023



Number of SNFs with 3 or more Confirmed Cases 06/17/2022 to 06/16/2023



- Case counts decreased in SNF residents (131 to 79) and in SNF staff (111 to 91) since last week [left graphic]
- The number of SNF facilities reporting 3 or more cases decreased since last week (14 to 8) [right graphic]

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

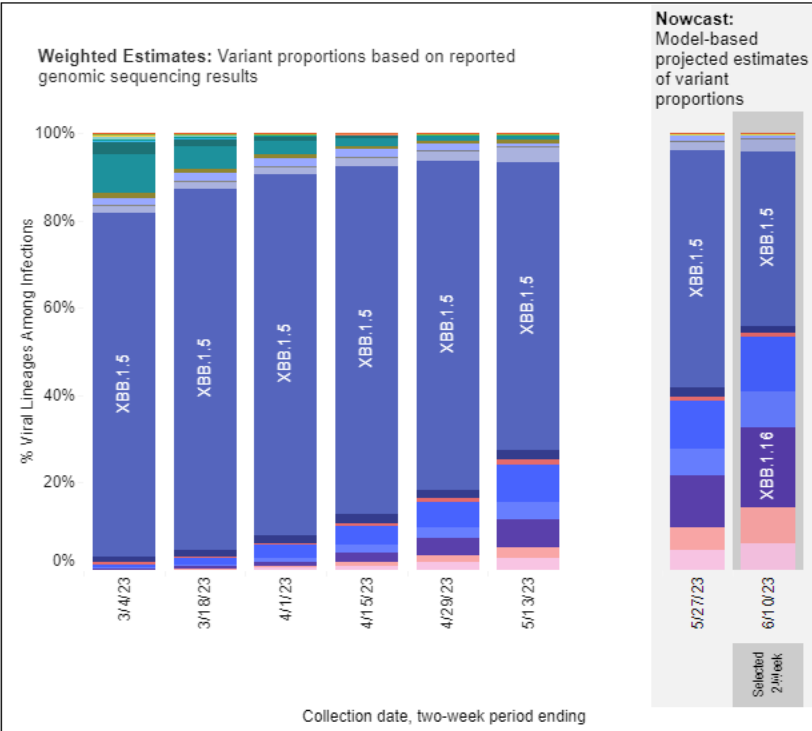
# Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: XBB.1.16 and XBB.1.9.1 spread but remain less prevalent than XBB.1.5

## SARS-CoV-2 Variants Circulating in the United States, Feb 19 – Jun 10 (NOWCAST)

Weighted and Nowcast Estimates in United States for 2-Week Periods in 2/19/2023 – 6/10/2023

Nowcast Estimates in United States for 5/28/2023 – 6/10/2023

Hover over (or tap in mobile) any lineage of interest to see the amount of uncertainty in that lineage's estimate.



USA				
WHO label	Lineage #	US Class	%Total	95%PI
Omicron	XBB.1.5	VOC	39.9%	36.7-43.2%
	XBB.1.16	VOC	18.2%	15.5-21.2%
	XBB.1.9.1	VOC	12.5%	11.0-14.3%
	XBB.1.16.1	VOC	8.4%	6.1-11.5%
	XBB.1.9.2	VOC	8.4%	6.3-11.1%
	XBB.2.3	VOC	6.0%	4.4-8.1%
	XBB	VOC	3.0%	2.0-4.7%
	XBB.1.5.1	VOC	1.6%	1.2-2.1%
	FD.2	VOC	0.9%	0.3-2.1%
	XBB.1.5.10	VOC	0.8%	0.5-1.3%
	CH.1.1	VOC	0.2%	0.1-0.2%
	BQ.1.1	VOC	0.1%	0.0-0.1%
	BQ.1	VOC	0.0%	0.0-0.0%
	BA.2	VOC	0.0%	0.0-0.0%
	BA.5	VOC	0.0%	0.0-0.0%
	BA.2.75	VOC	0.0%	0.0-0.0%
BN.1	VOC	0.0%	0.0-0.0%	
BF.7	VOC	0.0%	0.0-0.0%	
Other	Other*		0.0%	0.0-0.0%

### National Distribution

- 100% of the VOCs currently circulating in the U.S. are Omicron
- Nowcast estimates project that XBB.1.5 (39.9%, 95% P.I. 36.7-43.2%) remains the most prevalent, while XBB.1.16 comprise of 18.2% of infections (95% P.I. 15.5-21.2%), and XBB.1.9.1 comprise of approximately 12.5% of infections (95% P.I. 11.0-14.3%), while all other lineages comprise of less than 10% during the week ending on June 10.

### Distribution in Michigan

- Since April 15, there have been 512 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
  - Since April 15, 84% of specimens sequenced and reported (n=254) have been identified as XBB.1.5
  - In Michigan, a total of 38 cases of XBB.1.5.1, 45 cases of XBB.1.9.1, 20 cases of XBB.1.9.2, and 20 cases of XBB.1.16 have been identified; at least one of these strains have been identified in each preparedness region except Regions 7 and 8

\* 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 and FD.2, 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. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, XBB.1.5.10 was aggregated to XBB.1.5. Lineages BA.2.75.2, XBB, XBB.1.5, XBB.1.5.1, 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 and XBB.1.5.10 contain the spike substitution R346T.

# Over 1.8 Million Michiganders have received their updated booster vaccine – 18.1% of the total population

## Vaccination Up-to-Date Coverage

The percentage of Michiganders who have received the updated (bivalent) booster is higher than national percentages overall and for all reported age groups

47.2% of the population 65 years of age or older has received an updated (bivalent) booster

18.1% of all Michiganders have received their updated (bivalent) booster dose

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

- Up-to-date coverage is highest among Non-Hispanic (NH) White (16.4%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (15.6%), NH American Indian (12.6%), and NH Black or African American races (9.3%).
- Up-to-date coverage is at 11.0% for Hispanics

## Vaccination Coverage in Michigan as of 5/10/2023

Age Group	% Updated Booster**	U.S. % Boosted**	People with an Updated Booster
Total Population	18.1%	17.0%	1,802,910
≥ 5 years	19.1%	18.0%	1,799,688
≥ 12 years	20.5%	19.4%	1,760,141
≥ 18 years	21.7%	20.5%	1,704,974
≥ 65 years	47.2%	43.3%	833,254

\*\*This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

## Coverage by Race\*

Update through May 23, 2023

