

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

*May 23, 2023*

# May 11 marks the End of the Federal COVID-19 Public Health Emergency

## Key Messages

- The federal COVID-19 Public Health Emergency (PHE) declaration ended on May 11, 2023.
- Most tools, like vaccines, treatments, and testing, will remain available.
- CDC's ability to collect and share certain data will change.
- CDC is updating its guidance to align with data changes.

## What does the End of the PHE Mean for the Public

- Vaccines will remain available.
- Treatments will remain available.
- National and state reporting of COVID-19 will change.
- COVID-19 at-home tests may not be covered by insurance.


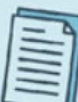




For details about CDC's data and surveillance metrics, including what will remain available, what will be added, and what will be discontinued can be found at their [webpage](https://www.cdc.gov/coronavirus/2019-ncov/your-health/end-of-phe.html).

# May 11 marks the End of the Federal COVID-19 Public Health Emergency

- MDHHS will continue to provide resources to Michiganders to help prevent the spread of COVID-19 and other respiratory illnesses
- For details about changes to public health response in Michigan, including what resources and data will remain available, see the [MDHHS press release](#)

## Michigan Resources Continue as Federal COVID-19 Public Health Emergency Ends

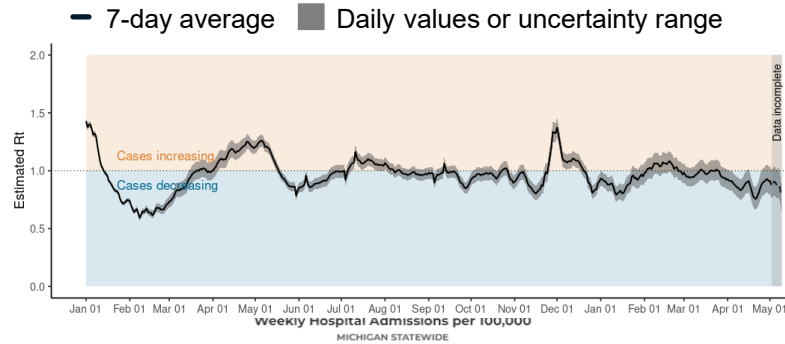


 <p>Insurances may change over-the-counter test coverage. Free tests will continue to be available.* Find info at <a href="https://Michigan.gov/COVIDTest">Michigan.gov/COVIDTest</a>.</p>	 <p>All remaining state epidemic orders will be rescinded.</p>	 <p>Therapeutics will be available by prescription.* Talk to your health care provider. Learn more at <a href="https://Michigan.gov/COVIDTherapy">Michigan.gov/COVIDTherapy</a>.</p>
 <p>Some data reporting will change. For more information, visit <a href="https://Michigan.gov/Coronavirus/Stats">Michigan.gov/Coronavirus/Stats</a>.</p>	 <p>No changes currently to vaccine distribution. Find a vaccine at <a href="https://Vaccines.gov">Vaccines.gov</a>.</p>	 <p>Information will continue to be available at <a href="https://Michigan.gov/Coronavirus">Michigan.gov/Coronavirus</a>.</p>

\* No-cost coverage will continue for Michigan residents on Medicaid through September 30, 2024.

# Recent statewide COVID trends are slowly declining

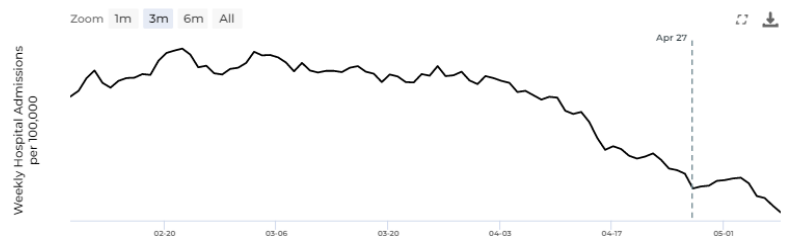
## Statewide trends



Current: 0.88  
Last Week: 0.86

## Reproductive Number, $R_t$

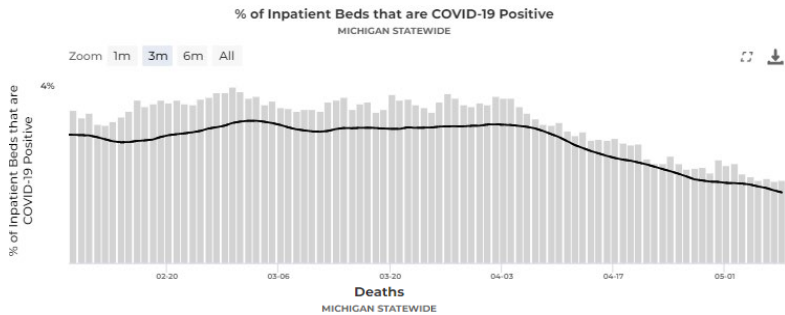
- The reproductive number ( $R_t$ ) in Michigan is just below 1 indicating slow decline



Current: 3.0  
Last Week: 4.2

## Hospital Admissions

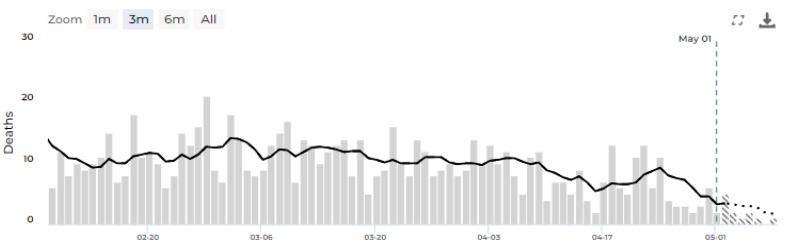
- There is a daily average of 3.0 hospital admissions per 100,000 Michiganders which is lower than last week



Current: 2.0%  
Last Week: 2.2%

## Daily hospitalization rate, %

- The percent of inpatient beds with COVID-19 positive patients (2.0%) have declined from last week



Current: 0.3  
Last Week: 0.5

## Deaths

- Deaths are a lagging indicator but are plateaued some over the past week

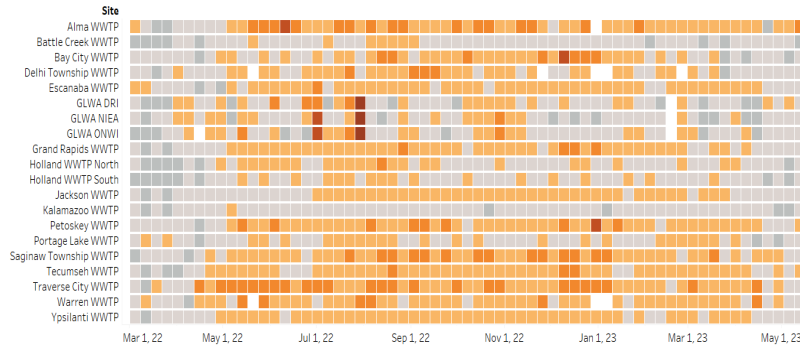
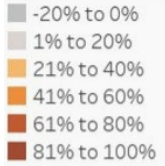
# Recent statewide COVID trends are slowly declining

## Statewide trends

— 7-day average ■ Daily values

### Wastewater

Percent Change

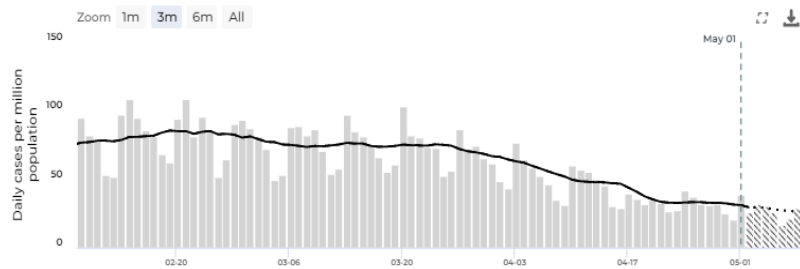


Current: 15% of sites are above 20% baseline threshold

Last Week: 10% of sites are above 20% baseline threshold

### Daily cases per million

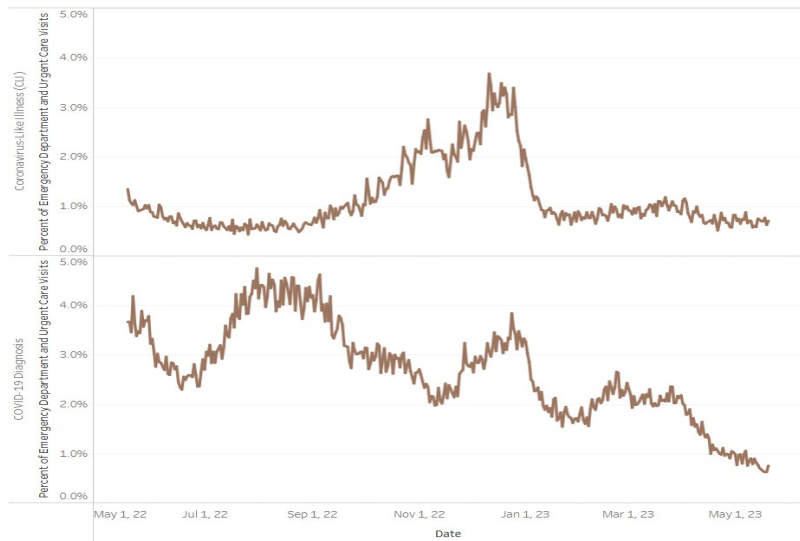
Daily cases per million population MICHIGAN STATEWIDE



Current: 29.2

Last Week: 30.0

### Syndromic Surveillance



Coronavirus-Like-Illness (CLI)

Current: 0.6%

Last Week: 0.6%

COVID-19 Diagnosis

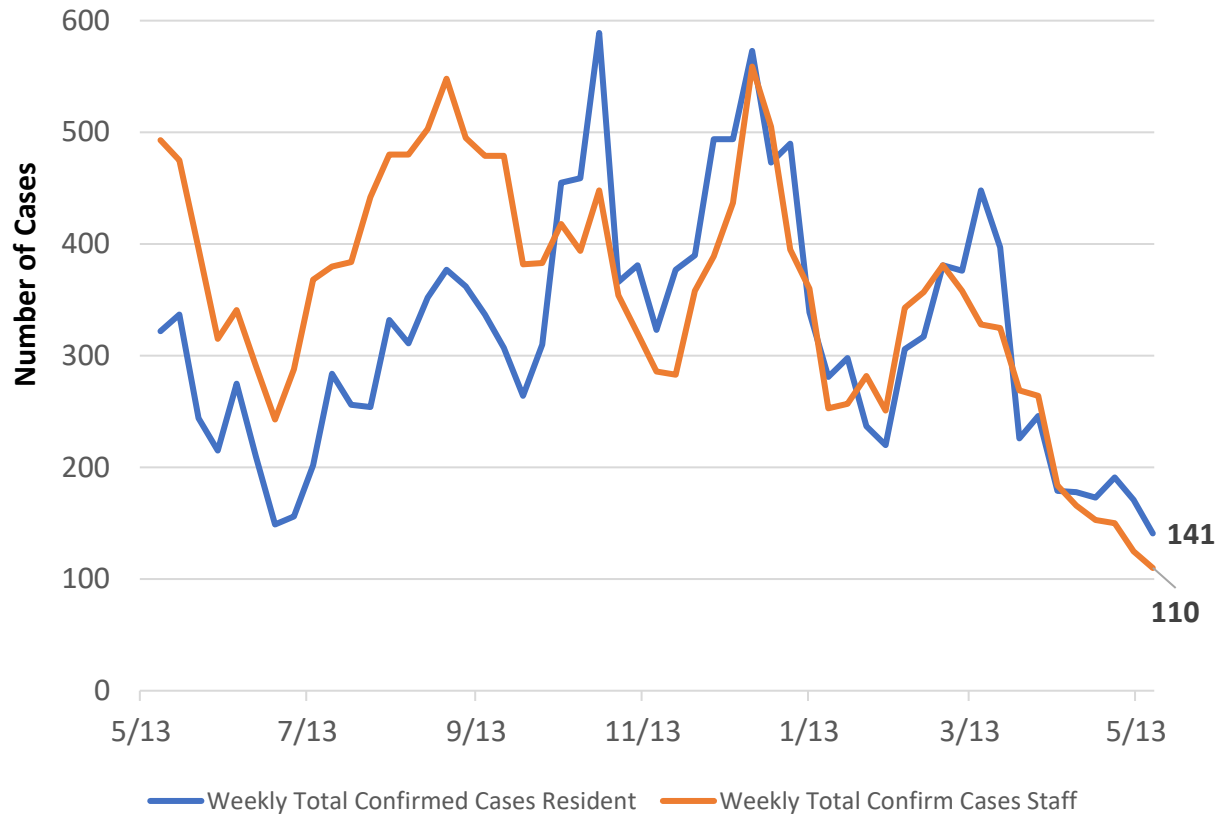
Current: 0.6%

Last Week: 0.8%

- 15% (2/20) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week
- Last Week: 10% of sites are above 20% baseline threshold
- Case rates are lower compared to last week
- Syndromic trends in emergency departments and urgent cares both saw decreases this week compared to last week and are at or 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 05/20/2022 TO 05/19/2023



Number of SNFs with 3 or more Confirmed Cases 05/20/2022 to 05/19/2023



- Case counts decreased in SNF residents (171 to 141) and in SNF staff (125 to 110) since last week [left graphic]
- The number of SNF facilities reporting 3 or more cases decreased since last week (14 to 12) [right graphic]
- Currently, **25%** of SNFs are reporting **nursing shortages** and **25%** of SNFs are reporting **aide shortages**, which is plateaued for nine month

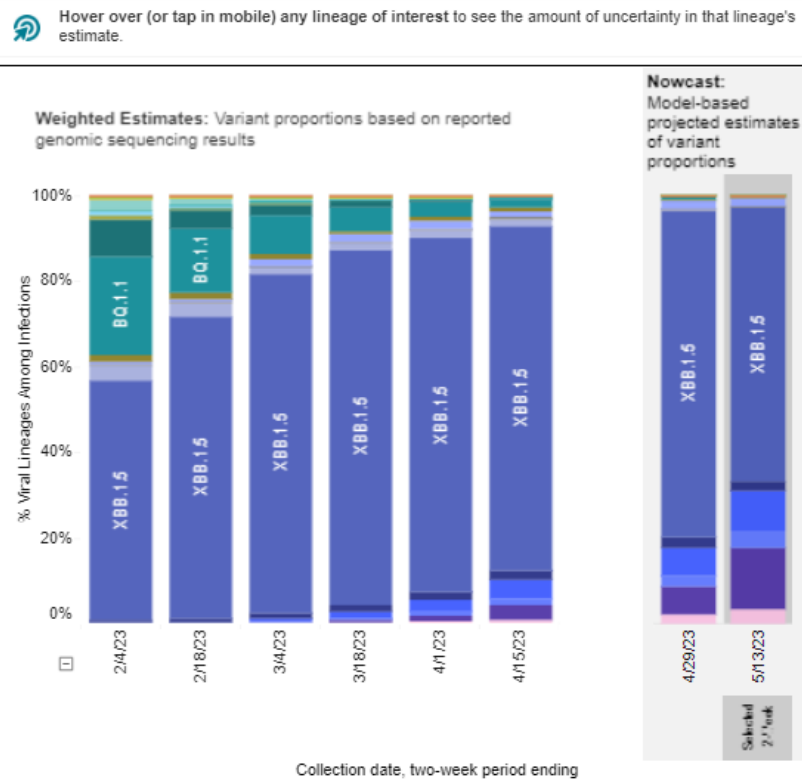
Abbreviations: AFC: Adult Foster Care; HFAs: Homes for the Aged; and SNF: Skilled Nursing Facilities

# 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 4 – May 13 (NOWCAST)

Weighted and Nowcast Estimates in United States for 2-Week Periods in 1/22/2023 – 5/13/2023

Nowcast Estimates in United States for 4/30/2023 – 5/13/2023



USA				
WHO label	Lineage #	US Class	%Total	95%PI
Omicron	XBB.1.5	VOC	64.0%	59.1-68.6%
	XBB.1.16	VOC	14.3%	11.1-18.1%
	XBB.1.9.1	VOC	9.2%	8.0-10.6%
	XBB.1.9.2	VOC	4.0%	3.2-5.1%
	XBB.2.3	VOC	3.5%	1.9-6.3%
	XBB.1.5.1	VOC	2.4%	1.9-3.0%
	FD.2	VOC	1.8%	0.8-4.0%
	BQ.1.1	VOC	0.3%	0.1-0.5%
	CH.1.1	VOC	0.2%	0.2-0.4%
	XBB	VOC	0.2%	0.1-0.4%
	BQ.1	VOC	0.0%	0.0-0.1%
	BN.1	VOC	0.0%	0.0-0.0%
	BA.5	VOC	0.0%	0.0-0.0%
	BA.2.12.1	VOC	0.0%	0.0-0.1%
	BA.2	VOC	0.0%	0.0-0.0%
BA.2.75	VOC	0.0%	0.0-0.0%	
BF.7	VOC	0.0%	0.0-0.0%	
BA.5.2.6	VOC	0.0%	0.0-0.0%	
Other	Other*		0.0%	0.0-0.0%

### National Distribution

- National distribution now reported for 2-week periods
- 100% of the VOCs currently circulating in the U.S. are Omicron
- Nowcast estimates project that XBB.1.5 (64.0%, 95% P.I. 59.1-68.6%) is the most prevalent, while XBB.1.16 comprise of 14.3% of infections (95% P.I. 11.1-18.1%), and XBB.1.9.1 comprise of approximately 9.2% of infections (95% P.I. 8.0-10.6%), while all other lineages comprise of less than 5% during the week ending on May 13

### Distribution in Michigan

- Since April 1, there have been 418 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
  - Since April 1, 84% of specimens sequenced and reported (n=351) have been identified as XBB.1.5
  - In Michigan, a total of 30 cases of XBB.1.5.1, 26 cases of XBB.1.9.1, 16 cases of XBB.1.9.2, and 12 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 and FD.2, sublineages of XBB.1.5 are aggregated to XBB.1.5. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, XBB.2.3 and XBB.1.16 were aggregated to XBB. 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.2.3, BN.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 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 (15.5%), NH American Indian (12.6%), and NH Black or African American races (9.3%).
- Up-to-date coverage is at 10.9% 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\*

