

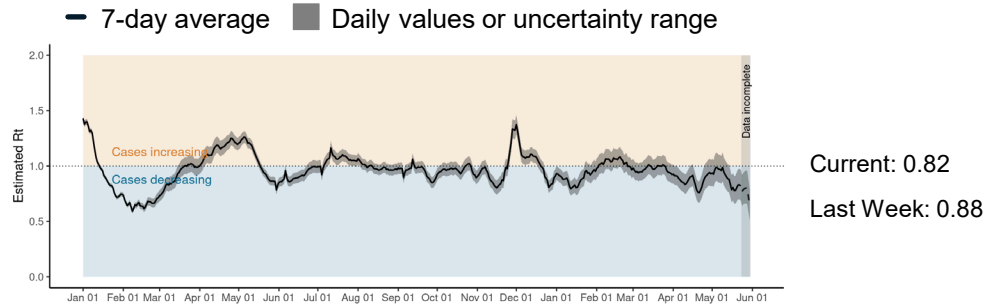
MI COVID RESPONSE DATA AND MODELING UPDATE

June 13, 2023

Recent statewide COVID trends show many indicators are at annual lows

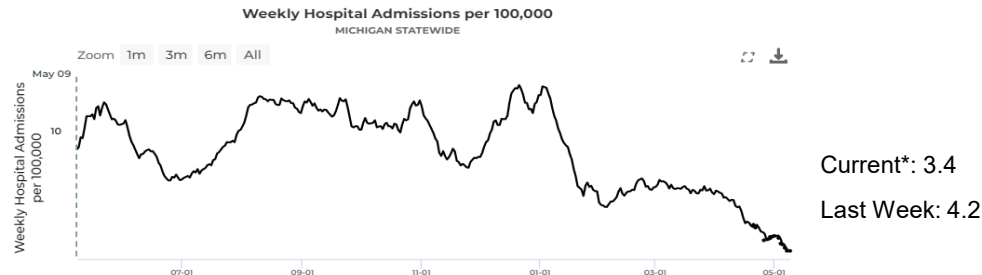
Statewide trends

Reproductive Number, R_t



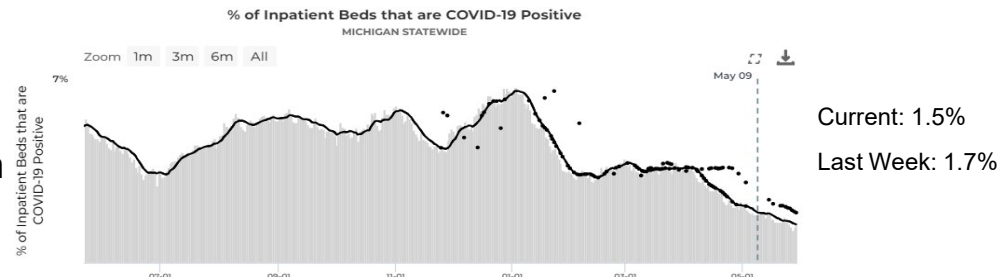
- The reproductive number (R_t) in Michigan is just below 1 indicating slow decline

Hospital Admissions*



- 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, %



- The percent of inpatient beds with COVID-19 positive patients (1.5%) have declined from last week and are at 52-week lows

Deaths



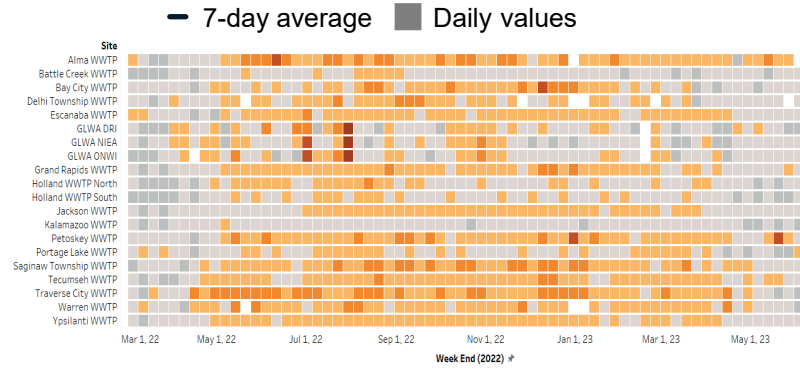
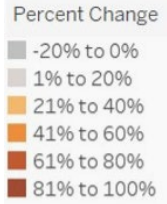
- Deaths are a lagging indicator but are plateaued over the past week and are near 52-week lows

* 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

Recent statewide COVID trends show many indicators are at annual lows

Statewide trends

Wastewater

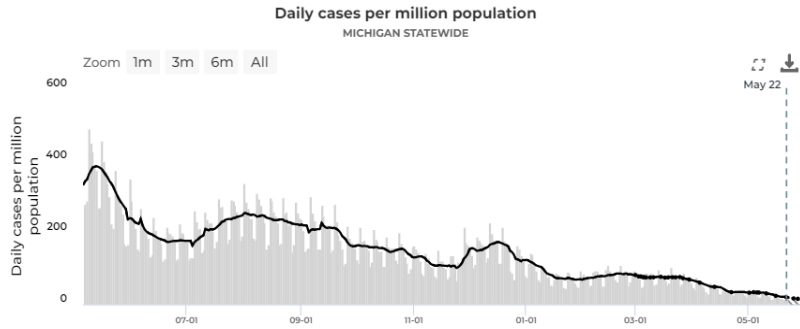


Current: 5.2% of sites are above 20% baseline threshold

Last Week: 15.7% of sites are above 20% baseline threshold

- 5.2% (1/19) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

Daily cases per million

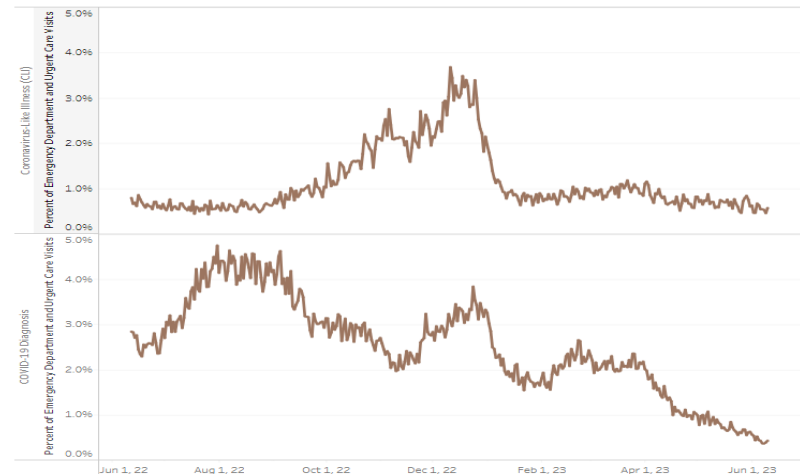


Current: 26.0

Last Week: 21.0

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

Syndromic Surveillance



Coronavirus-Like-Illness (CLI)

Current: 0.6%

Last Week: 0.9%

COVID-19 Diagnosis

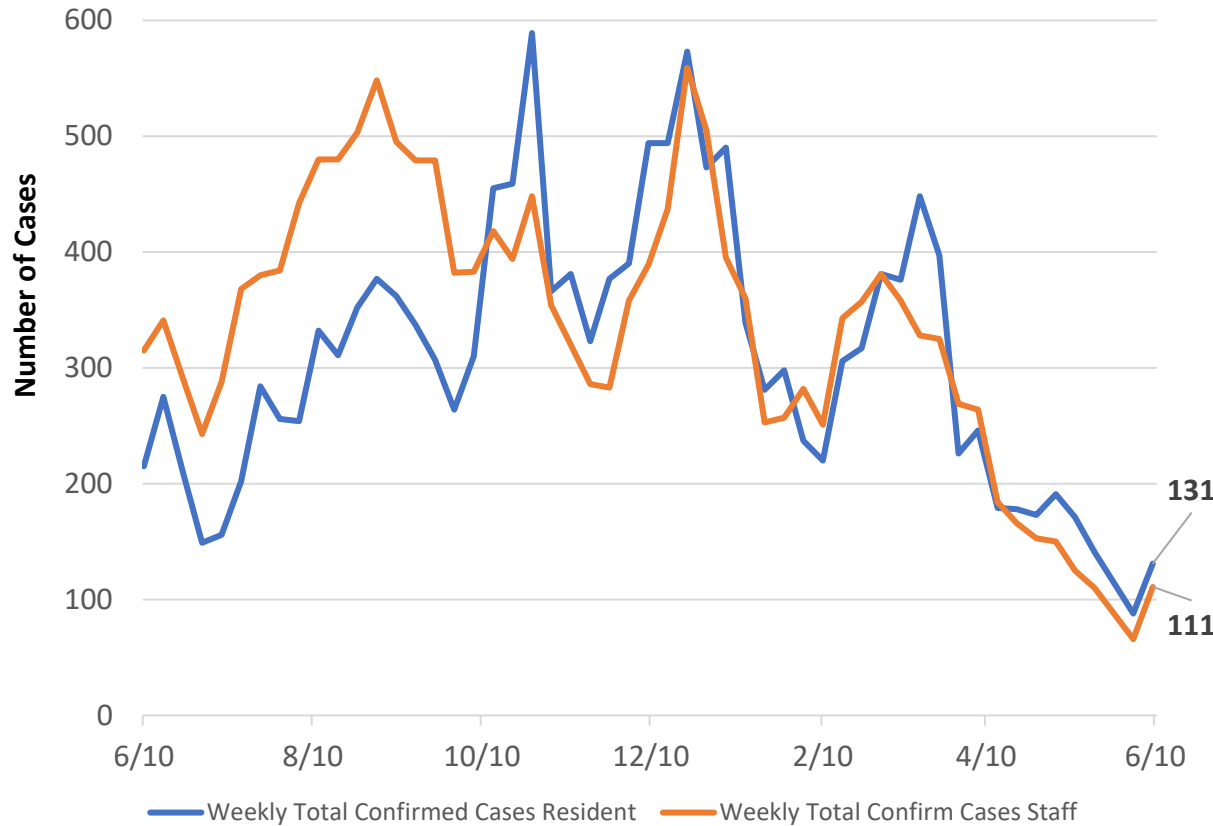
Current: 0.4%

Last Week: 0.8%

- Syndromic trends in emergency departments and urgent cares both saw decreases 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 06/10/2022 to 06/09/2023



Number of SNFs with 3 or more Confirmed Cases 06/10/2022 to 06/09/2023



- Case counts increased in SNF residents (88 to 131) and in SNF staff (66 to 111) since last week but are similar to 3 weeks ago [left graphic]
- The number of SNF facilities reporting 3 or more cases increased since last week (11 to 14) but similar to 3 weeks prior [right graphic]
- Currently, **25%** of SNFs are reporting **nursing shortages** and **25%** of SNFs are reporting **aide shortages**, which is plateaued for ten month

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

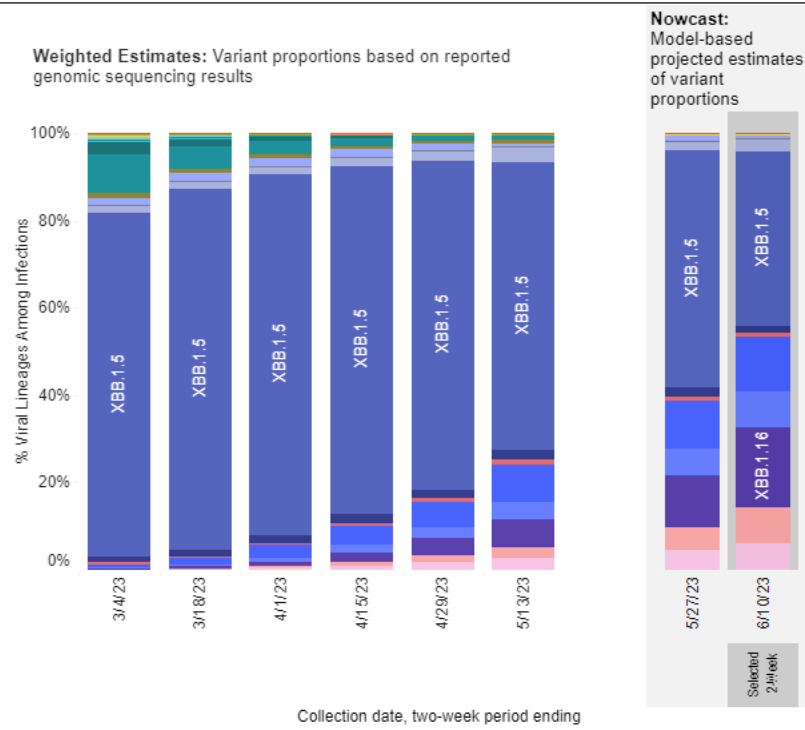
Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: XBB.1.16 and XBB.1.9.1 spread but remain less prevalent than XBB.1.5

SARS-CoV-2 Variants Circulating in the United States, Feb 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[¶] 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

