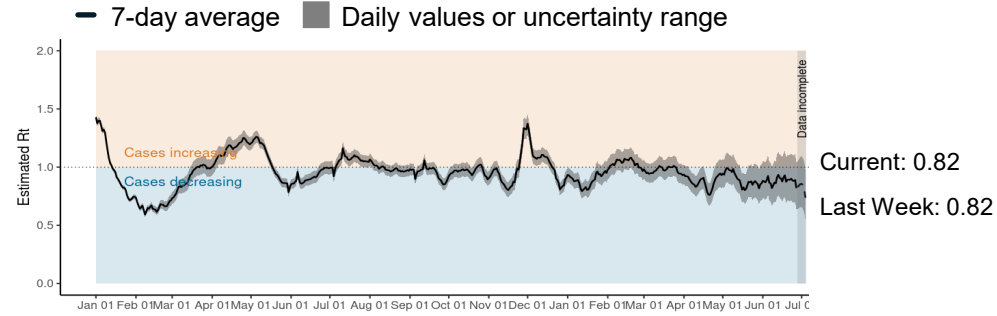


MI COVID RESPONSE DATA AND MODELING UPDATE

July 11, 2023

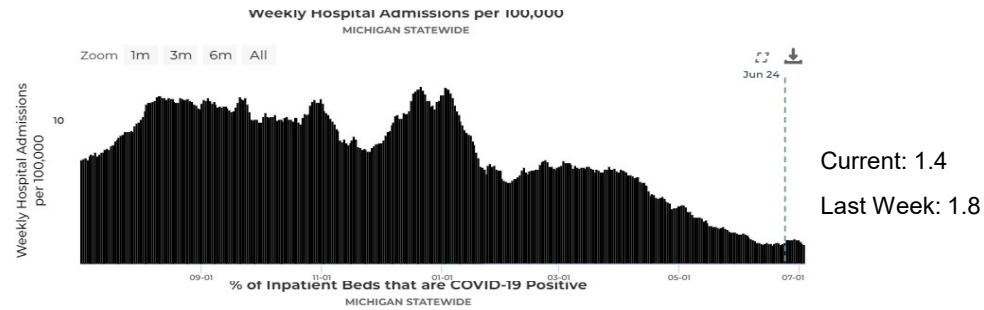
Recent statewide COVID trends show many indicators are at annual lows

Statewide trends



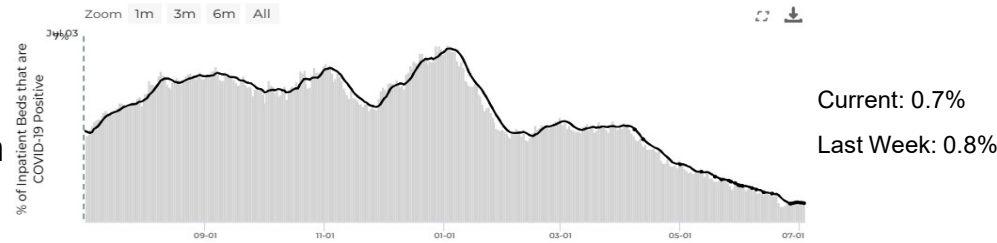
Reproductive Number, R_t

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



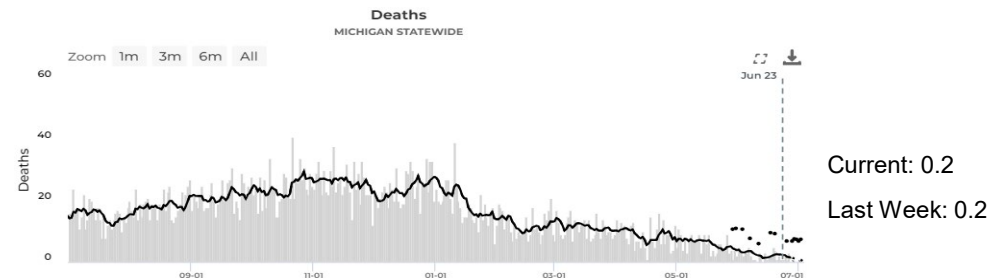
Hospital Admissions*

- There has been a daily average of 1.4 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 (0.7%) have declined from last week and are at 52-week lows



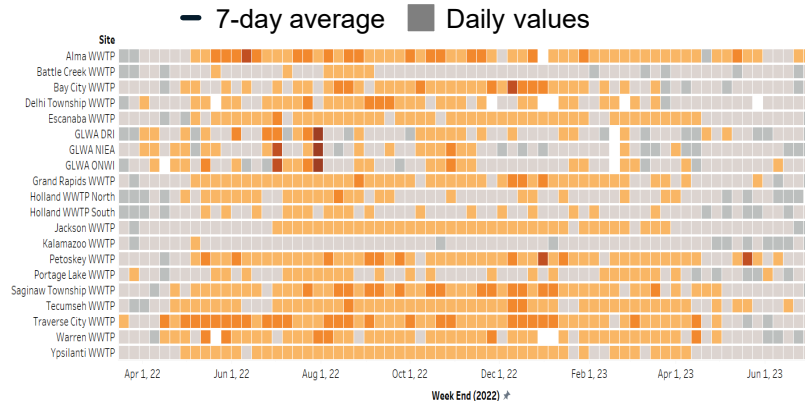
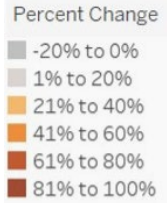
Deaths

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

Recent statewide COVID trends show many indicators are at annual lows

Statewide trends

Wastewater

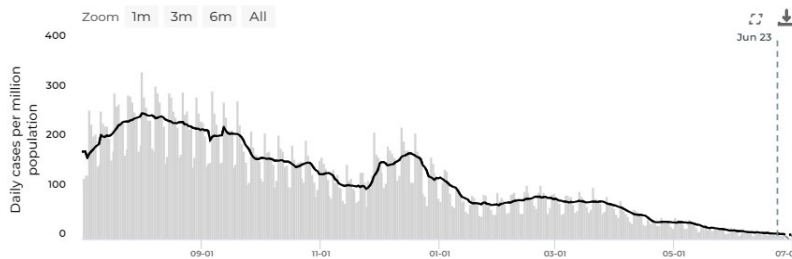


Current: 5% of sites are above 20% baseline threshold

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 37% (7/19) of wastewater sentinel sites have reported levels that are between 0% and 20% *below* baseline threshold levels

Daily cases per million



Current: 10.1

Last Week: 11.2

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

Syndromic Surveillance



Coronavirus-Like-Illness (CLI)

Current: 0.3%

Last Week: 0.4%

COVID-19 Diagnosis

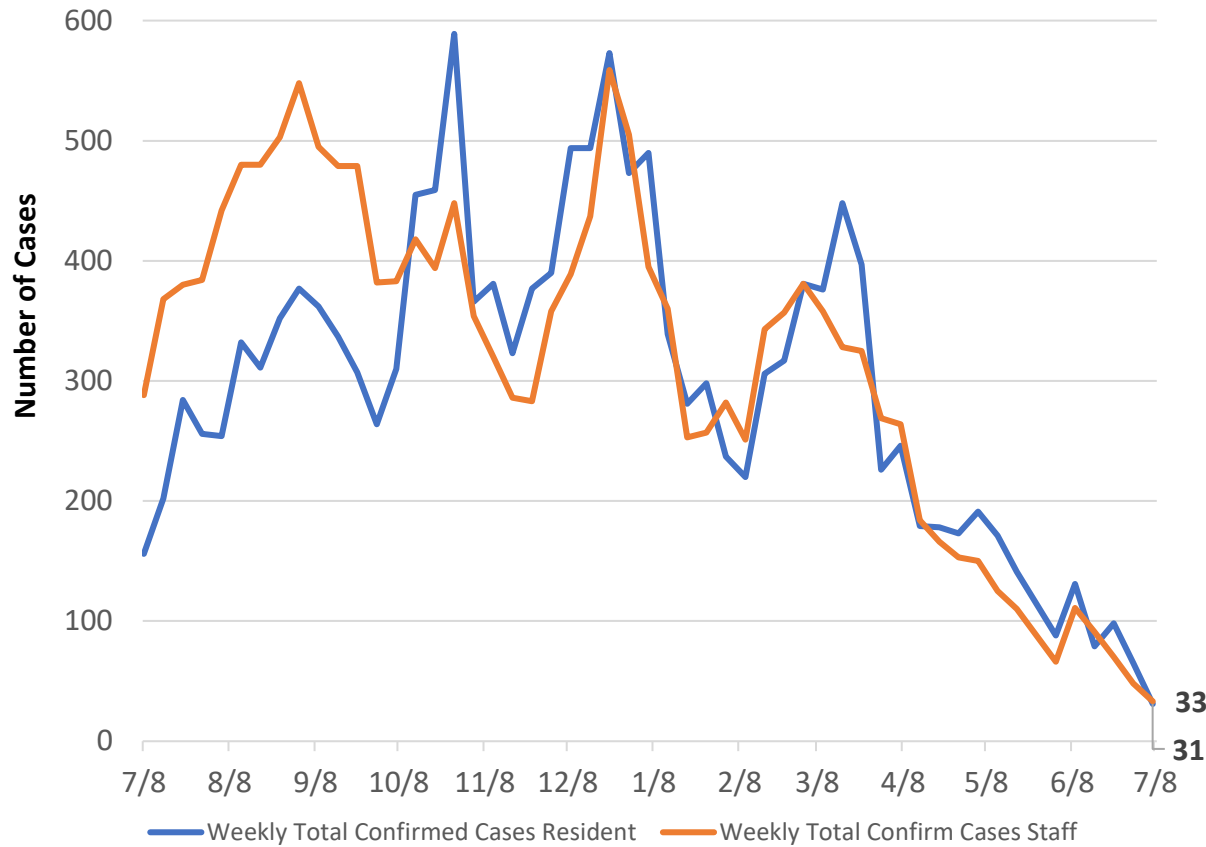
Current: 0.4%

Last Week: 0.5%

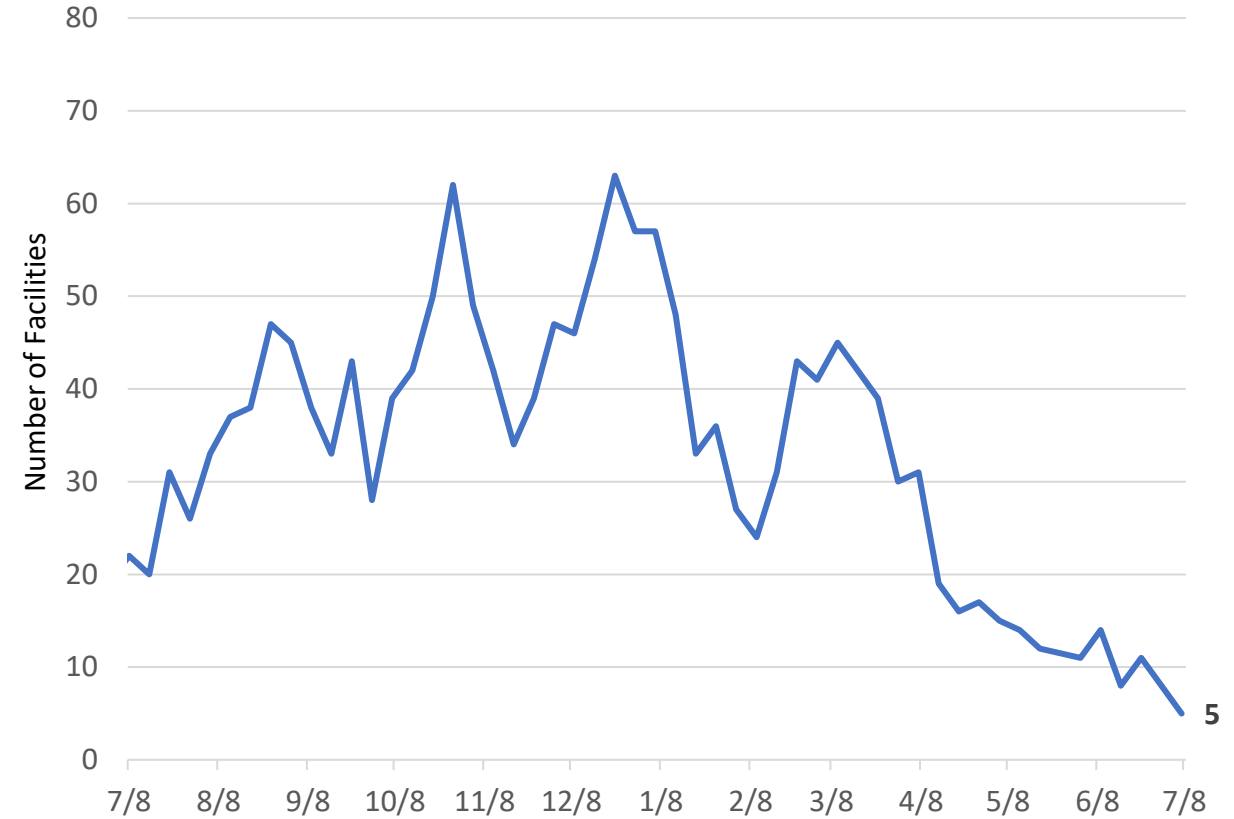
- Syndromic trends in emergency departments and urgent cares both saw plateaus this week compared to last week and remain near 52-week lows

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 7/8/2022 TO 7/7/2023



Number of SNFs with 3 or more Confirmed Cases 7/8/2022 to 7/7/2023



- Case counts decreased in SNF residents (65 to 31) and in SNF staff (48 to 33) since last week [left graphic]
- The number of SNF facilities reporting 3 or more cases decreased since last week (8 to 5) [right graphic]

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

Update through July 3, 2023

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

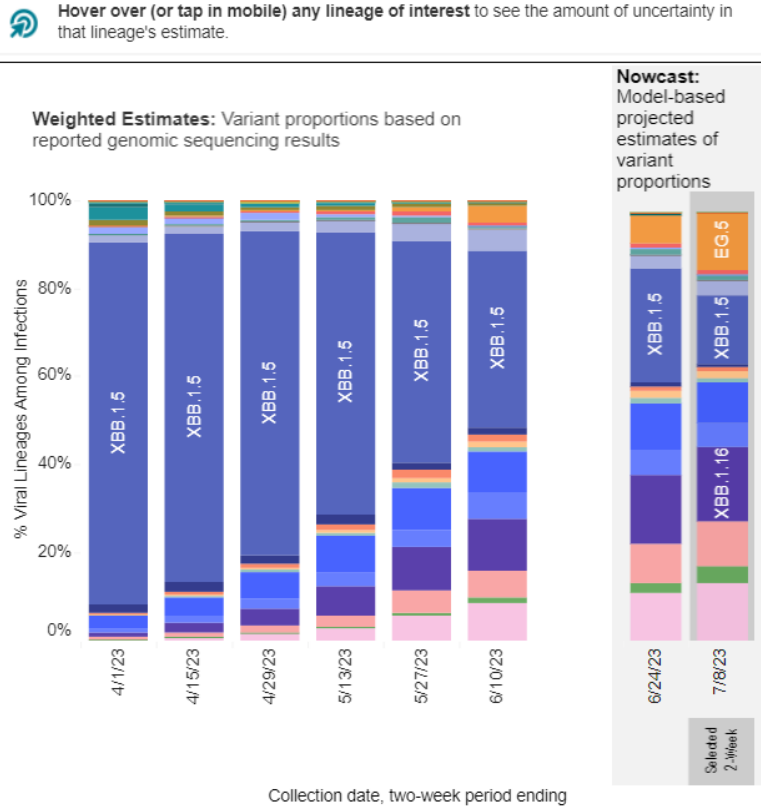
Source: Data is now provided through NHSN, data prior to May 19 was from Michigan EM Resource

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, Mar 19 – Jul 8 (NOWCAST)

Weighted and Nowcast Estimates in United States for 2-Week Periods in 3/19/2023 – 7/8/2023

Nowcast Estimates in United States for 6/25/2023 – 7/8/2023



USA			
WHO label	Lineage #	%Total	95%PI
Omicron	XBB.2.3	13.4%	11.3-15.8%
	XBB.1.9.2	5.6%	4.0-7.7%
	XBB.1.9.1	9.4%	8.1-10.9%
	XBB.1.5.68	1.0%	0.6-1.9%
	XBB.1.5.59	1.6%	1.0-2.6%
	XBB.1.5.10	0.8%	0.4-1.5%
	XBB.1.5.1	0.7%	0.5-1.0%
	XBB.1.5	16.1%	13.8-18.6%
	XBB.1.16.6	4.1%	2.0-7.9%
	XBB.1.16.1	10.4%	8.4-12.8%
	XBB.1.16	17.5%	15.2-20.0%
	XBB	3.6%	2.5-5.1%
	FE.1.1	1.3%	0.6-2.7%
	FD.2	0.1%	0.1-0.3%
	EU.1.1	1.1%	0.6-1.7%
	EG.5	13.0%	7.5-21.1%
CH.1.1	0.2%	0.1-0.4%	
BQ.1.1	0.0%	0.0-0.0%	
BQ.1	0.0%	0.0-0.0%	
BN.1	0.0%	0.0-0.0%	
BF.7	0.0%	0.0-0.0%	
BA.5	0.0%	0.0-0.0%	
BA.2.75	0.0%	0.0-0.0%	
BA.2	0.0%	0.0-0.0%	
Other	Other*	0.0%	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 (17.5%, 95% P.I. 15.2-20.0%) is now the most prevalent for now, while XBB.1.5 comprise of 16.1% of infections (95% P.I. 13.8-18.6%), XBB.2.3 comprise of 13.4% of infections (95% P.I. 11.3-15.8%), EG.5 comprise of approximately 13.0% of infections (95% P.I. 7.5-21.1%), and XBB.1.16.1 comprise of approximately 10.4% of infections (95% P.I. 8.4-12.8%), while all other lineages comprise of less than 10% during the week ending on July 8.

Distribution in Michigan

- Since May 1, there have been 378 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 33.6% 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, XBB.1.5.68 and XBB.1.5.59 sublineages of XBB.1.5 are aggregated to XBB.1.5. Except XBB.1.16.1, XBB.1.16.6 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. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, XBB.1.5.59 was aggregated to XBB.1.5 and XBB.1.16.6 was aggregated to XBB.1.16. 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, XBB.1.5.59 and XBB.1.16.6 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 (16.5%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (15.8%), NH American Indian (12.7%), and NH Black or African American races (9.4%).
- Up-to-date coverage is at 11.2% 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 June 13, 2023

