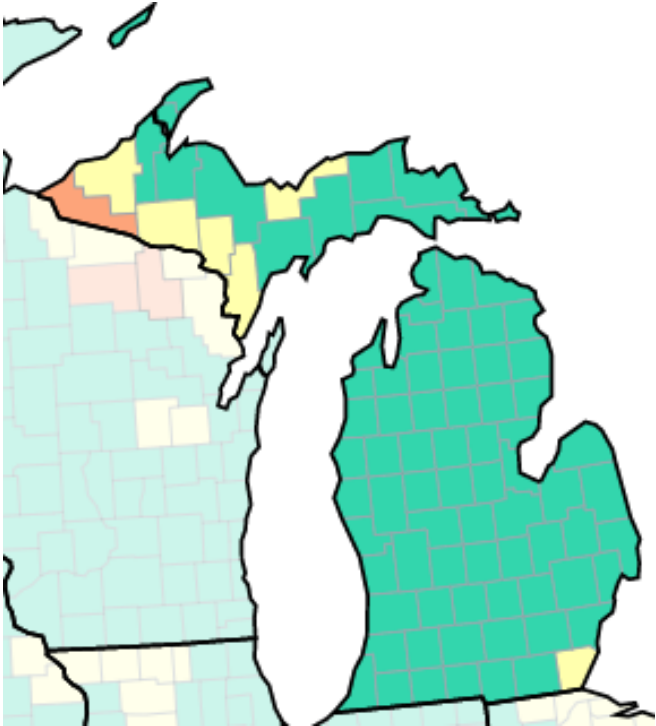


MI COVID RESPONSE DATA AND MODELING UPDATE

March 28, 2023

As of Mar 23, 1 Michigan County is at High COVID-19 Community Level



- In the US, less than 1% of counties are at high risk for medically significant disease and healthcare strain
- In Michigan, 1% (1/83) of counties are at high risk. This represents less than 1% of the population
- 6 Michigan counties are currently at Medium level (7%). This represents 2% of the population
- 76 Michigan counties are currently at Low level (92%). This represents 98% of the population

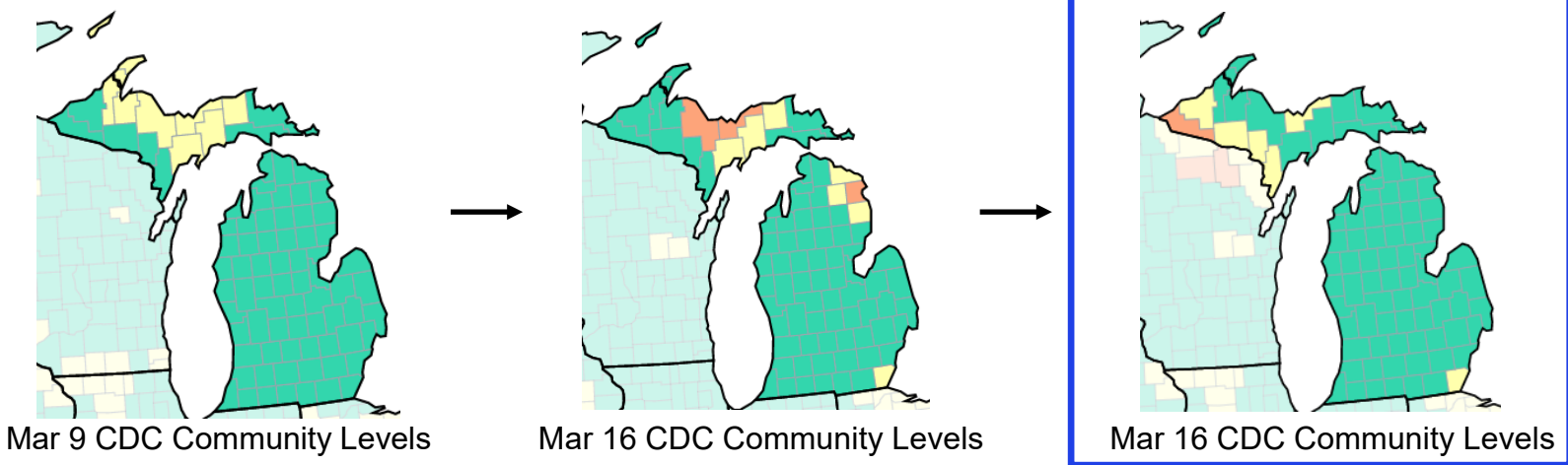
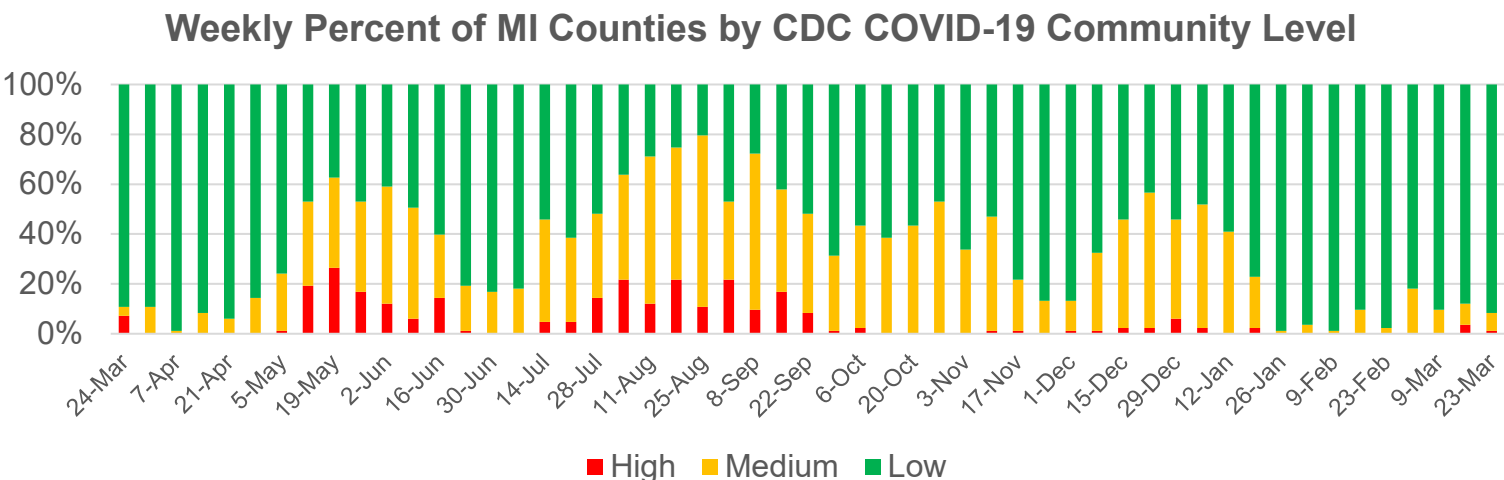
Percent of Counties This Week

	United States	Michigan	Percent of MI Population
Low	93%	92%	98%
Medium	6%	7%	2%
High	1%	1%	<1%

Low	Medium	High
<ul style="list-style-type: none">• Stay up to date with COVID-19 vaccines• Get tested if you have symptoms	<ul style="list-style-type: none">• If you are at high risk for severe illness, talk to your healthcare provider about whether you need to wear a mask and take other precautions• Stay up to date with COVID-19 vaccines• Get tested if you have symptoms	<ul style="list-style-type: none">• Wear a mask indoors in public• Stay up to date with COVID-19 vaccines• Get tested if you have symptoms• Additional precautions may be needed for people at high risk for severe illness

Michigan Trends of COVID-19 Community Levels

- As of March 23, 1 (1%) Michigan county is at high COVID-19 community level and 6 Michigan county are currently at Medium level (7%). Together, these counties account for 2% of the population.
- The number of counties reported at medium and high level this week is lower than last week

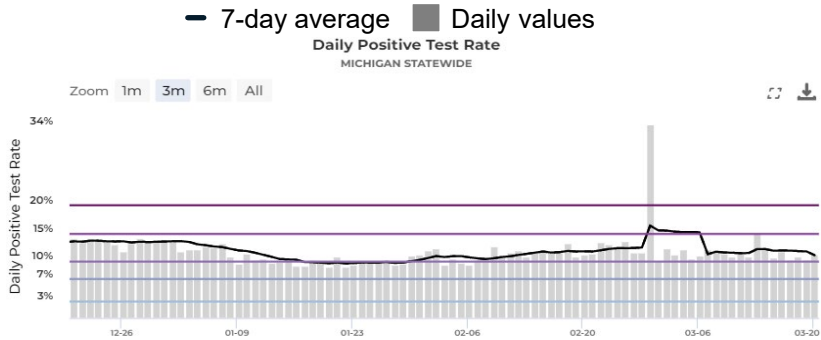


This metric uses three indicators for categorization: (1) new COVID-19 cases per 100,000 population in the last 7 days lagged 1 day behind the date the COVID-19 Community Level is calculated; (2) new COVID-19 hospital admissions per 100,000 population in the last 7 days; and (3) percent of staffed inpatient beds occupied by patients with confirmed COVID-19 (7-day average) lagged 1 day behind the 7-day case rate.

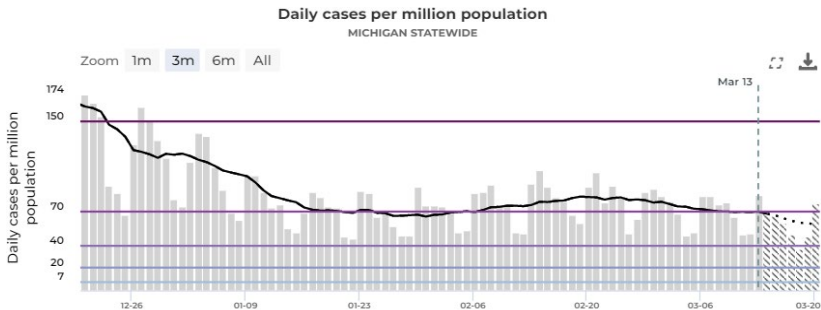
Recent statewide COVID trends are plateaued

Statewide trends

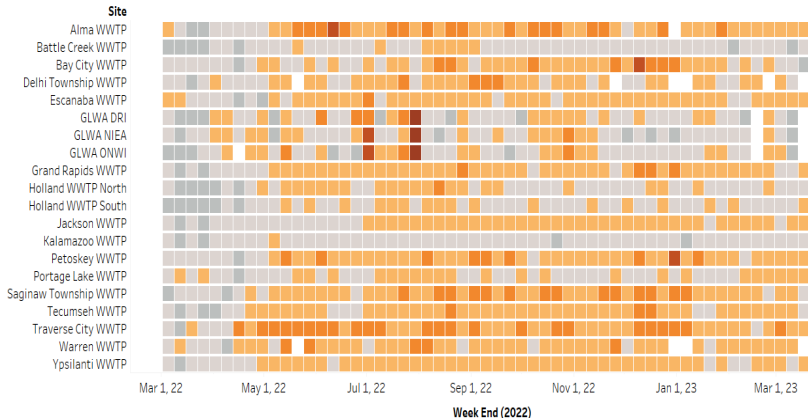
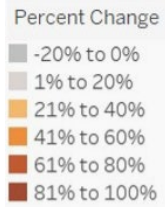
Positivity, %



Daily cases per million



Wastewater



Current: 60% of sites are above 20% baseline threshold

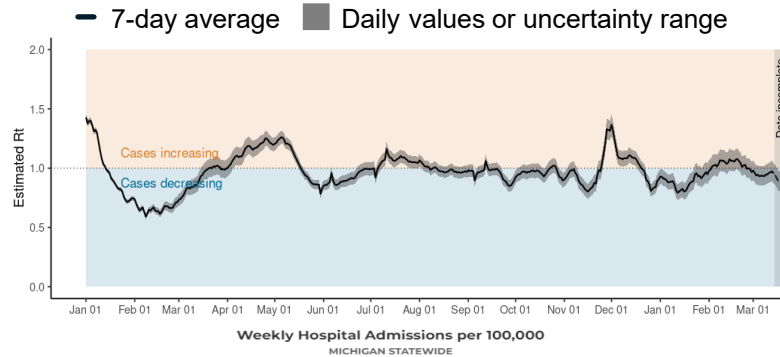
Last Week: 45% of sites are above 20% baseline threshold

- Test percent positivity is decreasing compared to last week
- Case rates are plateaued compared to last week
- Seven counties are currently showing an increase in cases and an additional 13 reported an elevated incidence plateau in case rates (via mistartmap.info as of 3/22/23, data through 3/13/23)
- 60% (9/15) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

Recent statewide COVID trends are plateaued

Statewide trends

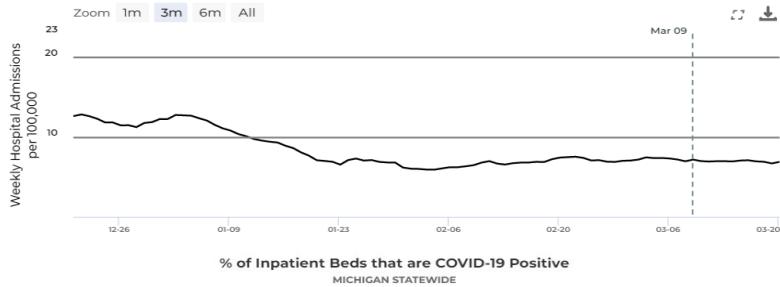
Reproductive Number, R_t



Current: 0.95

Last Week: 0.91

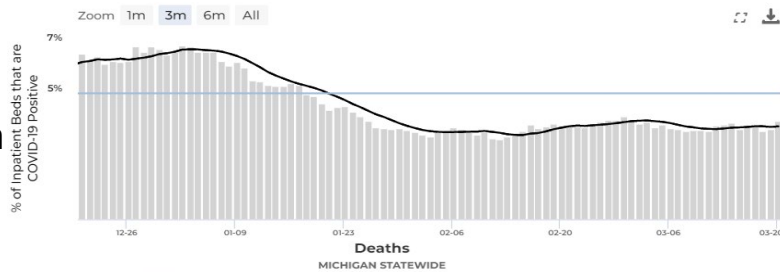
Hospital Admissions



Current: 6.9

Last Week: 7.0

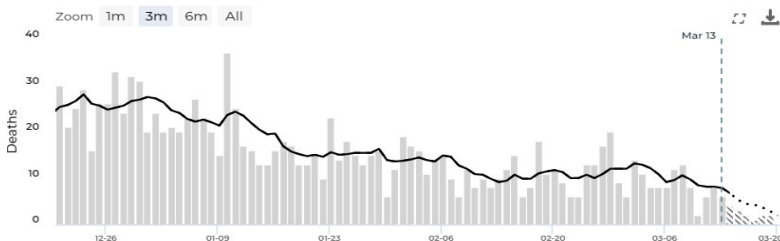
Daily hospitalization rate, %



Current: 3.7%

Last Week: 3.6%

Deaths



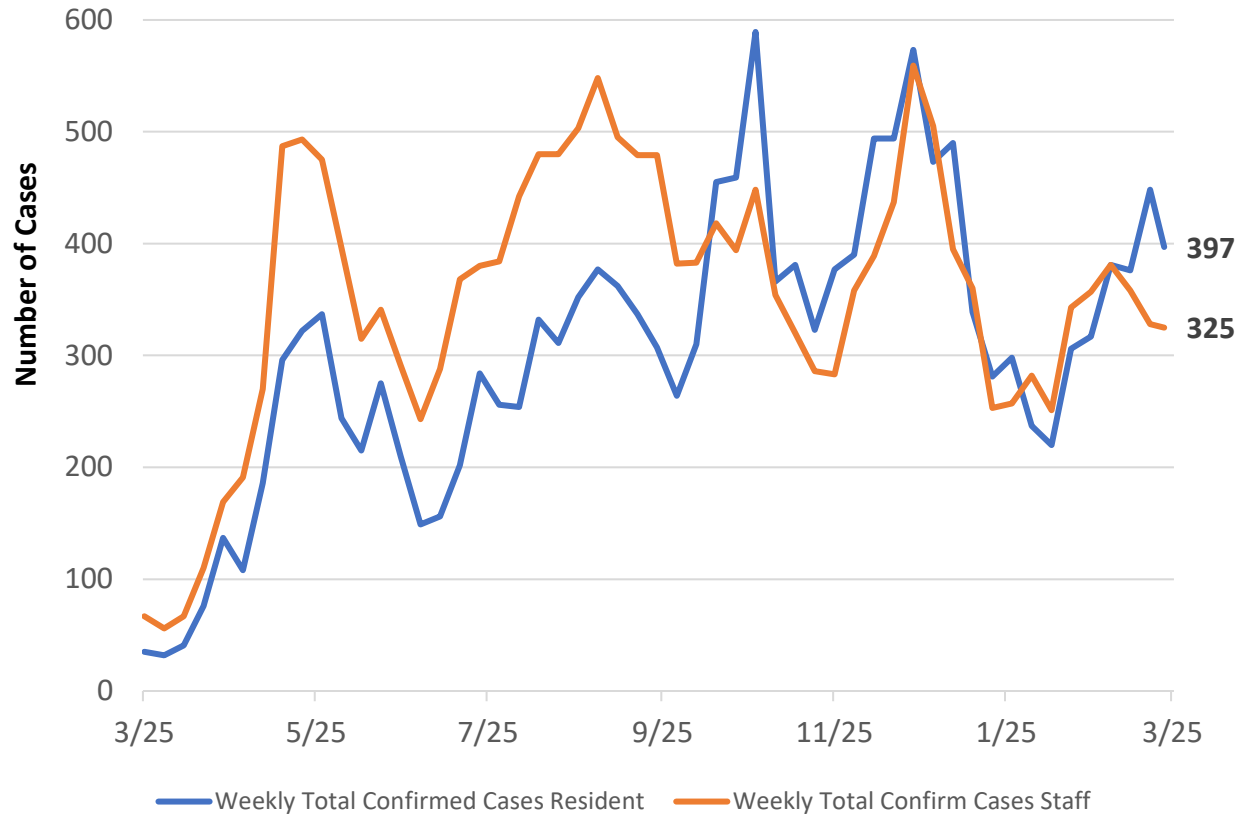
Current: 0.7

Last Week: 0.6

- The reproductive number (R_t) in Michigan is close to 1 indicating near plateau
- There is a daily average of 6.9 hospital admissions per 100,000 Michiganders which is plateaued compared to last week
- The percent of inpatient beds with COVID-19 positive patients (3.7%) are plateaued compared to last week
- Deaths are a lagging indicator but are plateaued some over the past week

COVID-19 Cases Among Staff and Residents in Long Term Care Facilities

Weekly Total Confirmed COVID-19 Cases in Michigan SNF
Residents and Staff
03/25/2022 to 03/24/2023



Number of SNFs with 3 or more Confirmed Cases
03/25/2022 to 03/24/2023



- Case counts have decreased in SNF residents (448 to 397) and in SNF staff (328 to 325) since last week
- The number of SNF facilities reporting 3 or more cases decreased slightly since last week (42 to 39)
- Currently, **26%** of SNFs are reporting **nursing shortages** and **27%** of SNFs are reporting **aide shortages**, which is plateaued since end of July

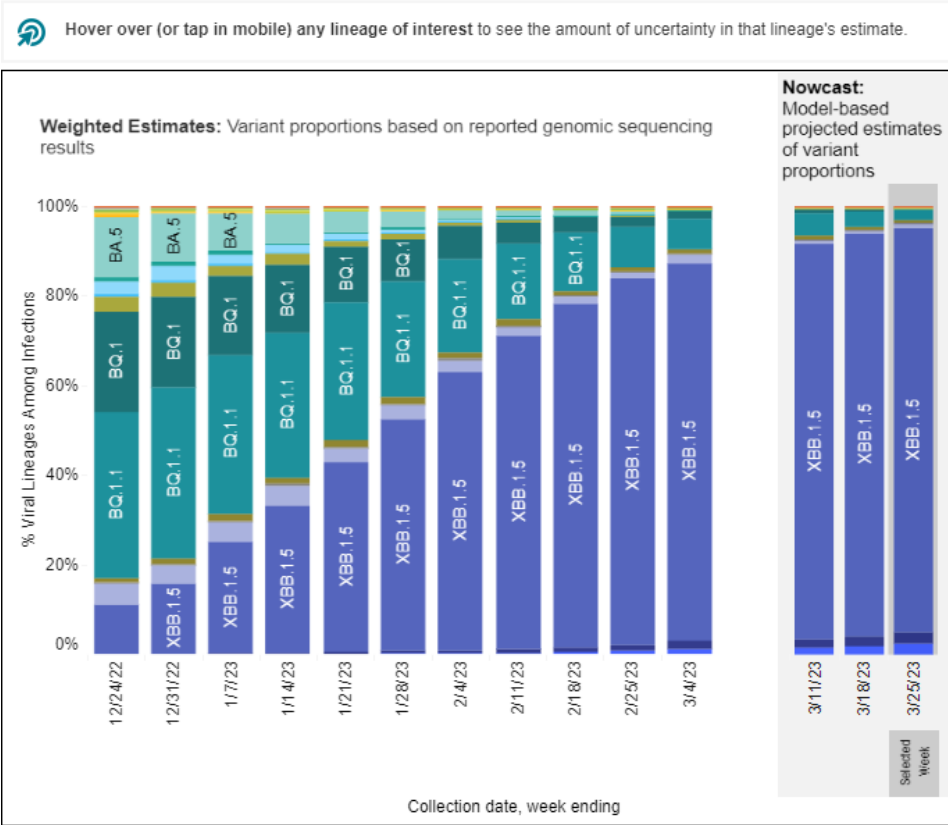
Abbreviations: AFC: Adult Foster Care; HFAs: Homes for the Aged; and SNF: Skilled Nursing Facilities

Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: XBB.1.5 sublineage remains predominant

SARS-CoV-2 Variants Circulating in the United States, Dec 11 – Mar 18 (NOWCAST)

Weighted and Nowcast Estimates in United States for Weeks of 12/18/2022 – 3/25/2023

Nowcast Estimates in United States for 3/19/2023 – 3/25/2023



* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks 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 XBB.1.9.1, XBB.1.5 and its sublineages, sublineages of XBB are aggregated to XBB. Except XBB.1.5.1, 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.1.9.1 was aggregated to XBB. Lineages BA.2.75.2, XBB, XBB.1.5, XBB.1.5.1, XBB.1.9.1, BN.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the spike substitution R346T.

USA				
WHO label	Lineage #	US Class	%Total	95%PI
Omicron	XBB.1.5	VOC	90.2%	88.0-91.9%
	XBB.1.9.1	VOC	2.5%	1.8-3.5%
	BQ.1.1	VOC	2.5%	1.7-3.6%
	XBB.1.5.1	VOC	2.4%	1.8-3.2%
	XBB	VOC	1.2%	0.7-1.9%
	CH.1.1	VOC	0.4%	0.3-0.6%
	BQ.1	VOC	0.4%	0.3-0.6%
	BA.2	VOC	0.2%	0.0-1.0%
	BN.1	VOC	0.1%	0.0-0.1%
	BA.5	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%
	BA.2.75	VOC	0.0%	0.0-0.0%
	BF.11	VOC	0.0%	0.0-0.0%
Delta	BA.2.75.2	VOC	0.0%	0.0-0.0%
	B.1.1.529	VOC	0.0%	0.0-0.0%
	BA.1.1	VOC	0.0%	0.0-0.0%
	BA.4.6	VOC	0.0%	0.0-0.0%
	BA.4	VOC	0.0%	0.0-0.0%
	B.1.617.2	VBM	0.0%	0.0-0.0%
	Other*		0.0%	0.0-0.1%
	Other		0.0%	0.0-0.1%
	Other		0.0%	0.0-0.1%
	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.1.5 (90.2%, 95% P.I. 88.0-91.9%) is the most prevalent, while XBB.1.9.1 comprise of 2.5% of infections (95% P.I. 1.8-3.5%), and BQ.1.1 comprise of approximately 2.5% of infections (95% P.I. 1.7-3.6%) during the week ending on March 25

Distribution in Michigan

- Since February 15, there have been 802 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
 - Since February 15, 15.1% of specimens sequenced and reported (n=121) have been identified as BA.5; of which 68.0% of those specimens are BQ.1.1 (n=87)
- A total of 1,142 cases of XBB.1.5 have been identified in Michigan with the earliest specimen identified on November 30, 2022

95% P.I. = 95% prediction interval

Data last updated March 27, 2023

Source: CDC COVID Data Tracker: Genomic Surveillance and Michigan's MDSS; sequence data may take up to four weeks to process and get reported back to health departments

Over 6.2 Million Michiganders have completed the primary series – 62.4% of the total population

Vaccination Coverage

Over 6.2 million people in MI have completed the primary series*

91.4% of people aged 65 and older in MI have completed the primary series*

69.5% of the total MI population have initiated the primary series*

Race/Ethnicity¶ for those 6 months and older:

- Up-to-date coverage is highest among Non-Hispanic (NH) White (15.9%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (14.9%), NH American Indian (12.1%), and NH Black or African American races (8.7%).
- Up-to-date coverage is at 10.3% for Hispanics

Updated Booster Coverage

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

45.6% of the population 65 years of age or older has received an updated (bivalent) booster

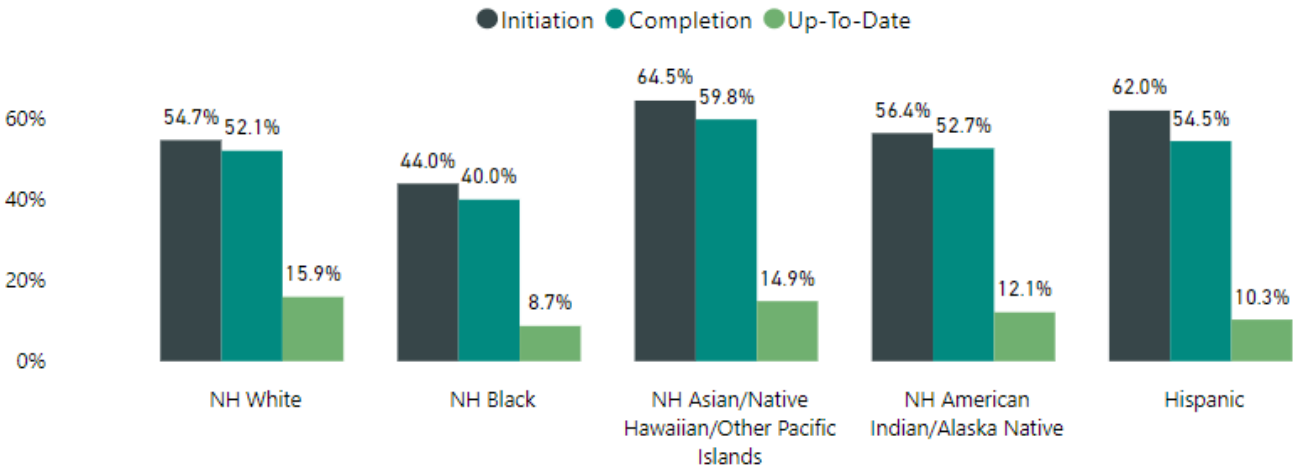
17.4% of all Michiganders have received their updated (bivalent) booster dose

Vaccination Coverage in Michigan as of 3/22/2023

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster**	U.S. % Boosted**	Primary Series Total
Total Population	69.5%	62.4%	17.4%	16.4%	6,229,241
≥ 5 years	73.4%	66.0%	18.5%	17.5%	6,214,270
≥ 12 years	77.3%	69.6%	19.8%	18.8%	5,978,223
≥ 18 years	79.6%	71.5%	21.0%	19.9%	5,609,850
≥ 65 years	95.0%	91.4%	45.6%	41.9%	1,613,751

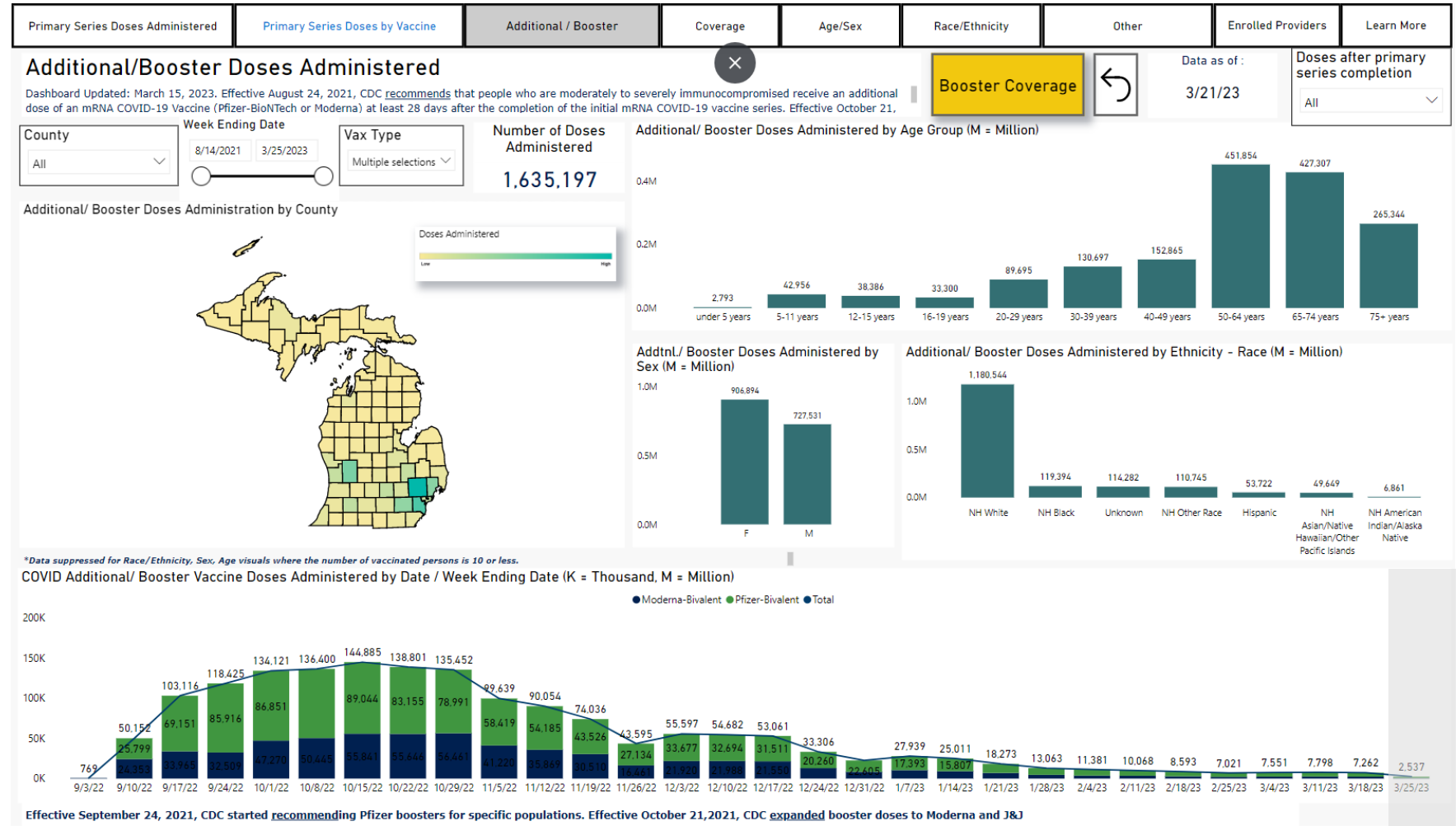
**This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

Coverage by Race*



Bivalent Administration

- FDA has authorized and CDC now recommends expanding the use of the updated bivalent COVID-19 vaccines to everyone over the age of 6 months.*
- As of March 21[¶], 1,635,197 Michiganders have received their bivalent booster
- Note: the data for the week ending 3/25 would have been incomplete on the date the dashboard was last refreshed (3/21)



● Moderna Bivalent

● Pfizer Bivalent

* [CDC Expands Updated COVID-19 Vaccines to Include Children Ages 6 Months through 5 Years](#)

¶ These data are updated every Wednesday on our COVID-19 vaccination Dashboard under Additional/Booster Administration Trends and then restricting the view to just Moderna and Pfizer bivalent doses

Sources: [Michigan Coronavirus Vaccine Dashboard](#)