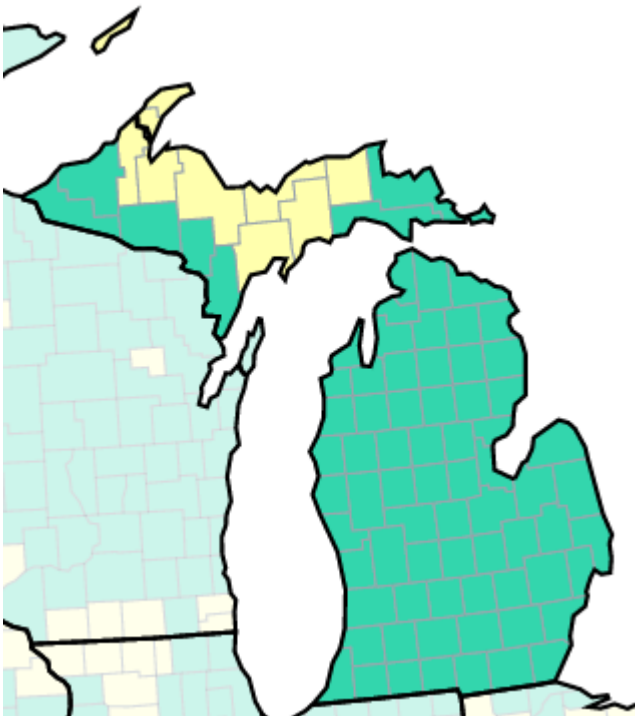


# **MI COVID RESPONSE DATA AND MODELING UPDATE**

March 14, 2023

# As of Mar 8, No Michigan Counties are at High COVID-19 Community Level



- In the US, 2% of counties have high risk for medically significant disease and healthcare strain
- In Michigan, 0% (0/83) of counties are at high risk. This represents 0% of the population
- 8 Michigan county is currently at Medium level (10%). This represents 2% of the population
- 75 Michigan counties are currently at Low level (90%). This represents 98% of the population

Percent of Counties This Week

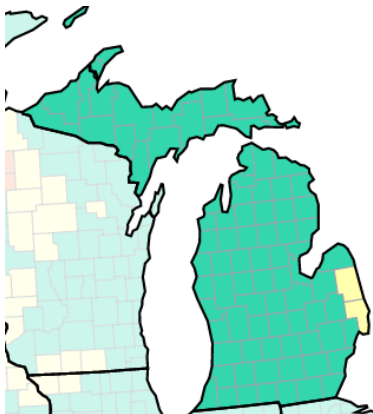
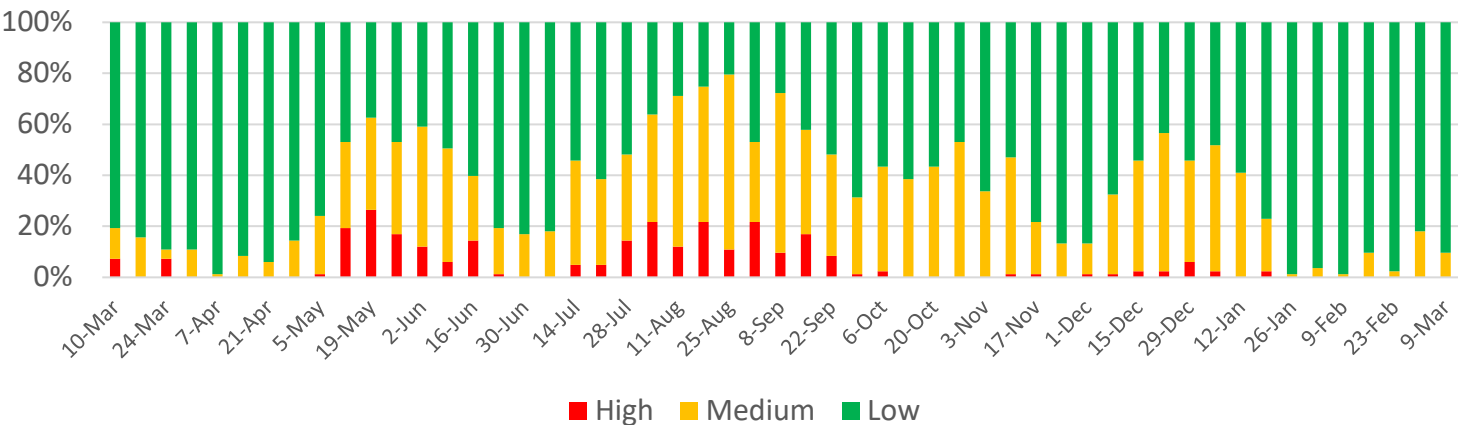
	United States	Michigan	Percent of MI Population
Low	85%	98%	98%
Medium	13%	2%	2%
High	2%	0%	0%

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

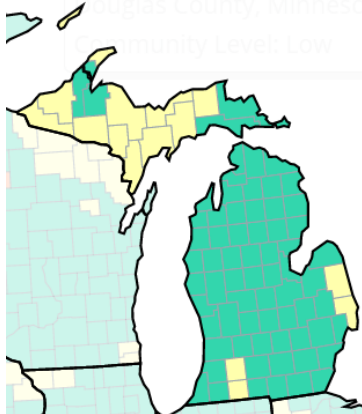
# Michigan Trends of COVID-19 Community Levels

- As of March 8, no (0%) Michigan counties are at high COVID-19 community level and 8 Michigan county are currently at Medium level (10%). Together, these counties account for 2% of the population.
- All counties at medium level this week are part of 2 HSAs, both of which exceed the new COVID hospital admissions threshold of 10 per 100,000 residents
- This is the seventh week without any counties classified as High

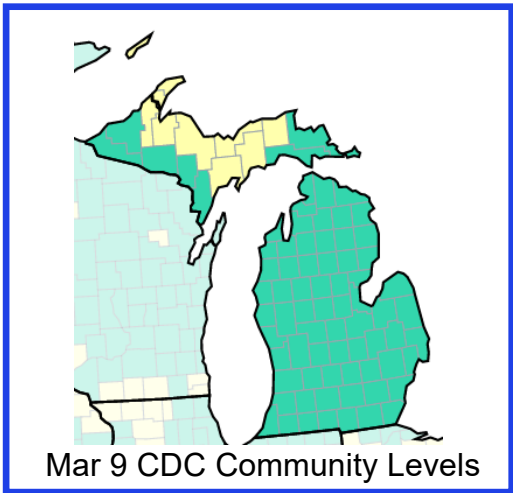
Weekly Percent of MI Counties by CDC COVID-19 Community Level



Feb 23 CDC Community Levels



Mar 2 CDC Community Levels



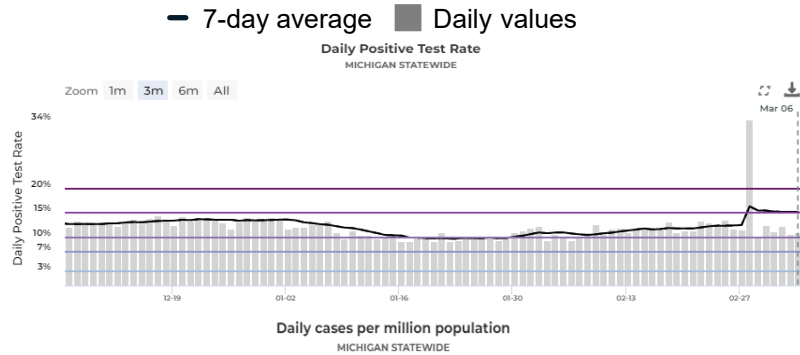
Mar 9 CDC Community Levels

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 .

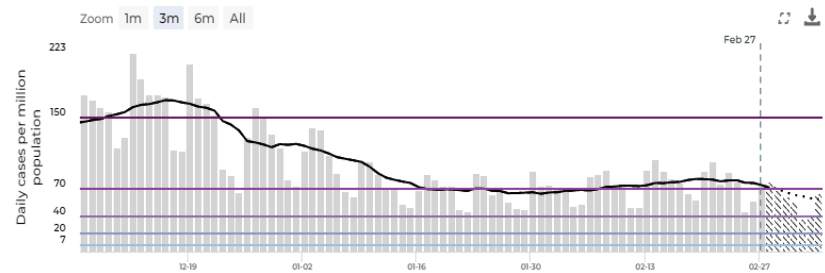
# Recent statewide COVID trends are plateaued

## Statewide trends

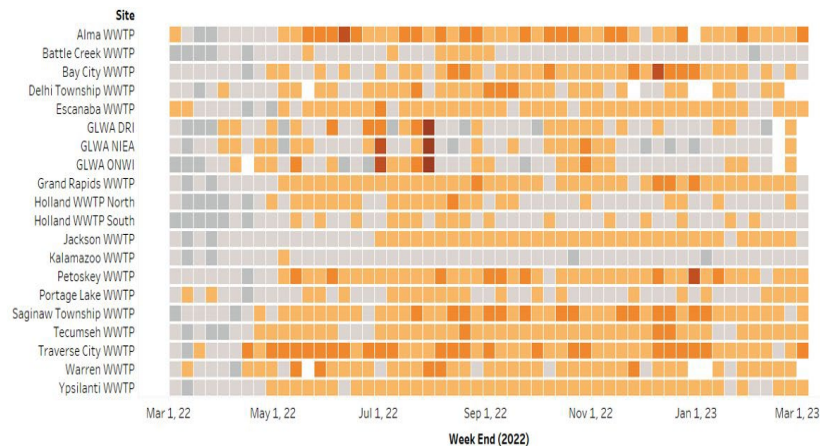
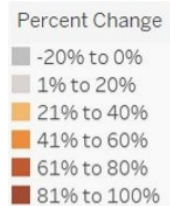
### Positivity, %



### Daily cases per million



### Wastewater



Current: 53% of sites are above 20% baseline threshold

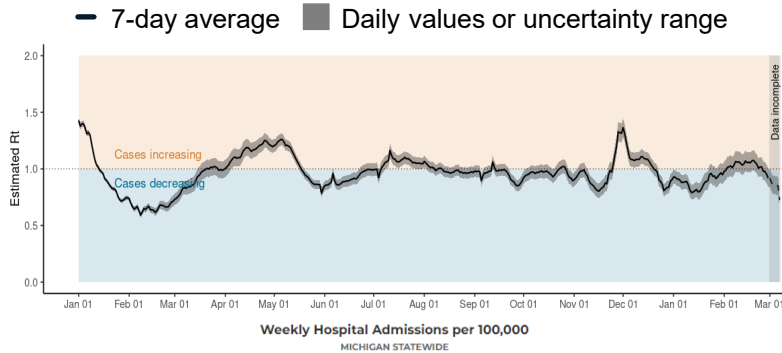
Last Week: 79% of sites are above 20% baseline threshold

- Test percent positivity, is increasing compared to last week. This is due in part to receipt of a backlog of test results on 2/28/23
- Case rates are slightly decreased since last week
- Six counties are currently showing an increase in cases and an additional 20 reported an elevated incidence plateau in case rates (via mistartmap.info as of 3/13/23, data through 2/27/23)
- 53% (8/15) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

# Recent statewide COVID trends are plateaued

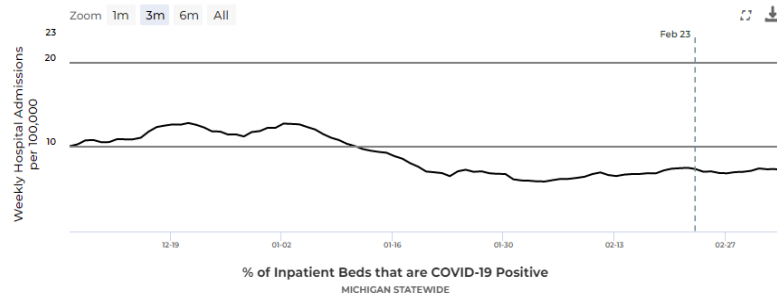
## Statewide trends

### Reproductive Number, $R_t$



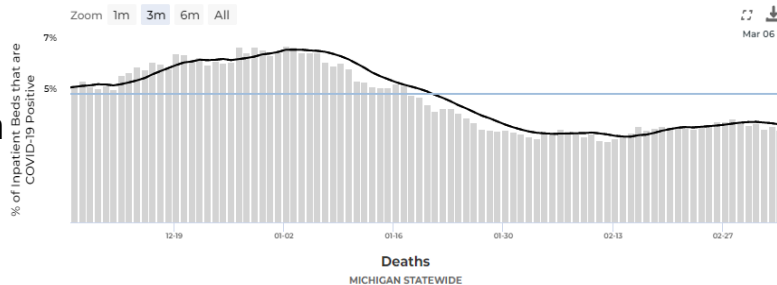
Current: 0.72  
Last Week: 0.99

### Hospital Admissions



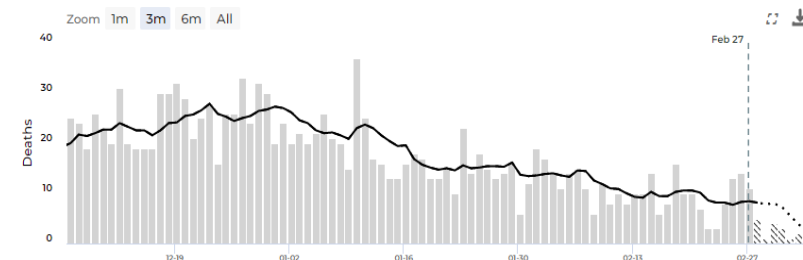
Current: 7.4  
Last Week: 6.9

### Daily hospitalization rate, %



Current: 3.7%  
Last Week: 3.9%

### Deaths

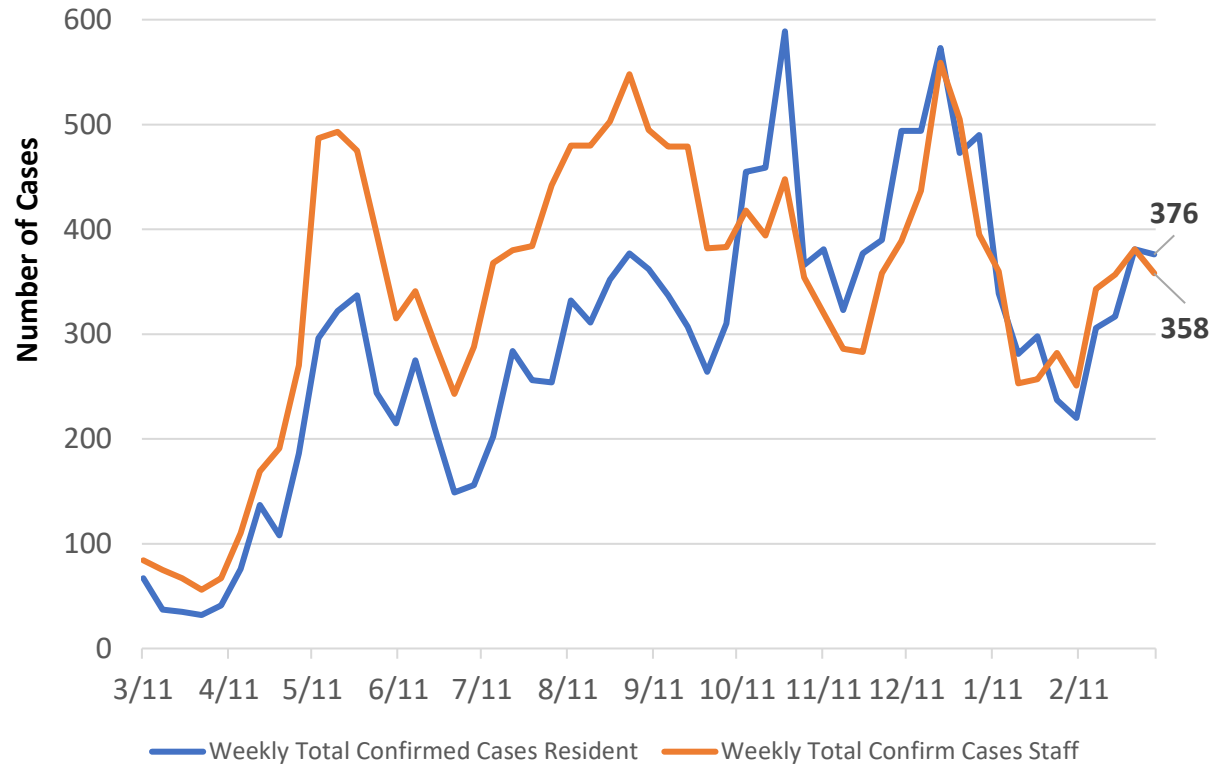


Current: 0.8  
Last Week: 0.7

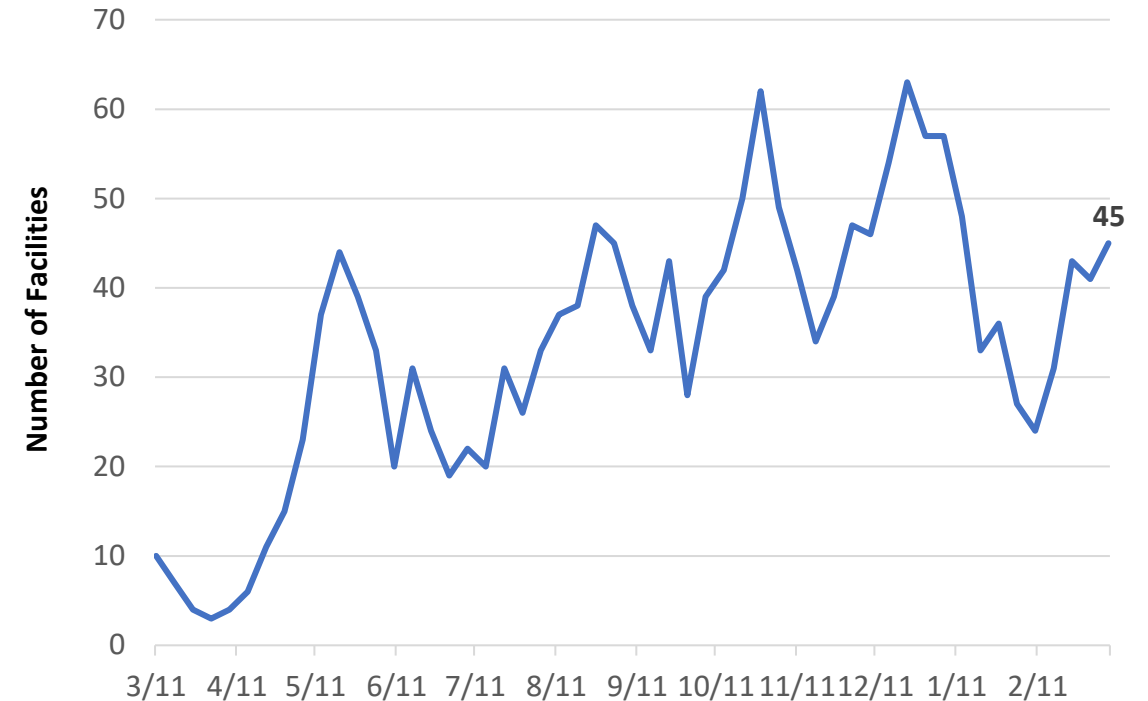
- The reproductive number ( $R_t$ ) in Michigan is close to 1 indicating near plateau
- There are an average of 7.4 hospital admissions per 100,000 Michiganders day which is slightly increased from last week
- The percent of inpatient beds that have patients diagnosed with COVID-19 (3.7%) are plateaued 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

STATE OF MICHIGAN WEEKLY TOTAL CONFIRMED COVID-19 CASES IN SNF  
RESIDENTS AND STAFF  
03/11/2022 TO 03/10/2023



Number of SNFs with 3 or more Confirmed Cases  
03/11/2022 TO 03/10/2023



- Case counts have decreased in SNF residents (381 to 376) and in SNF staff (381 to 358) since last week.
  - The number of SNF facilities reporting 3 or more cases increased since last week (41 to 45)
  - Currently, **26%** of SNFs are reporting **nursing shortages** and **28%** 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

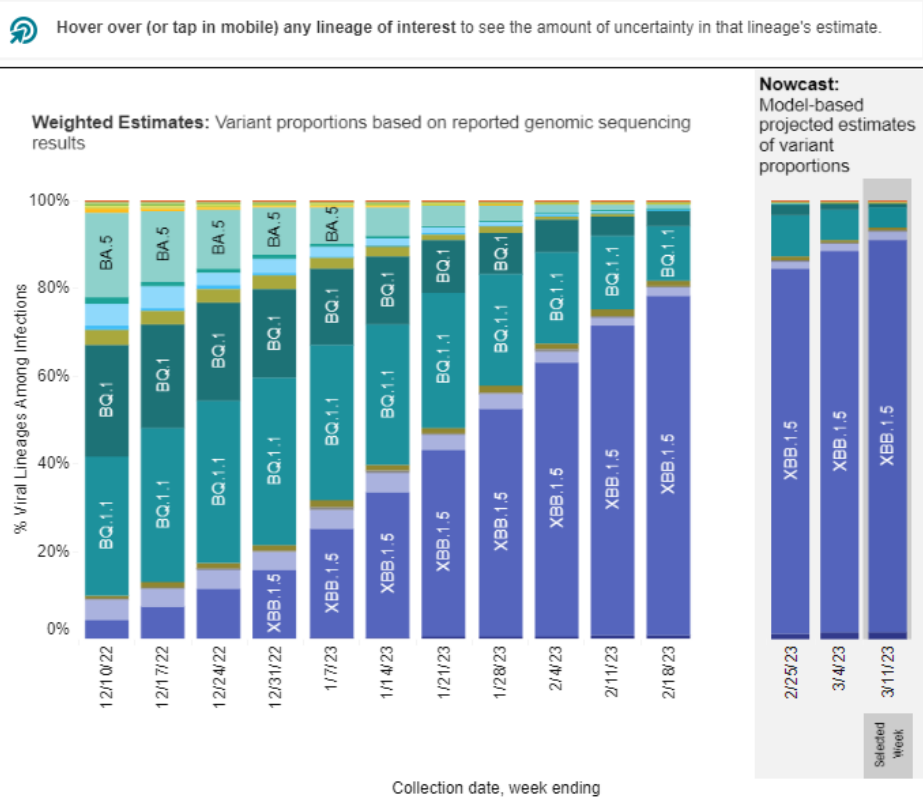


# Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: XBB.1.5 sublineage remains predominant

## SARS-CoV-2 Variants Circulating in the United States, Dec 4 – Mar 11 (NOWCAST)

Weighted and Nowcast Estimates in United States for Weeks of 12/4/2022 – 3/11/2023

Nowcast Estimates in United States for 3/5/2023 – 3/11/2023



\* 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.1.5 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.1.5.1 was aggregated to XBB.1.5. Lineages BA.2.75.2, XBB, XBB.1.5, XBB.1.5.1, 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	89.5%	85.8-92.3%
	BQ.1.1	VOC	4.7%	3.3-6.8%
	XBB	VOC	2.1%	1.1-3.9%
	XBB.1.5.1	VOC	1.6%	1.0-2.4%
	BQ.1	VOC	1.0%	0.7-1.5%
	CH.1.1	VOC	0.7%	0.4-1.0%
	BN.1	VOC	0.1%	0.1-0.2%
	BA.2	VOC	0.1%	0.0-0.1%
	BA.5	VOC	0.1%	0.0-0.1%
	BF.7	VOC	0.0%	0.0-0.1%
	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%
	BA.2.75.2	VOC	0.0%	0.0-0.0%
	B.1.1.529	VOC	0.0%	0.0-0.0%
Delta	BA.4.6	VOC	0.0%	0.0-0.0%
	BA.2.12.1	VOC	0.0%	0.0-0.0%
	BA.4	VOC	0.0%	0.0-0.0%
	BA.1.1	VOC	0.0%	0.0-0.0%
	B.1.617.2	VBM	0.0%	0.0-0.0%
Other	Other*		0.1%	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 (89.5%, 95% P.I. 85.8-92.3%) is the most prevalent, while the BA.5 sublineages of BQ.1.1 comprise of approximately 4.7% of infections (95% P.I. 3.3-6.8%) during the week ending on March 11

### Distribution in Michigan

- Since February 1, there have 894 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
  - Since February 1, 24.9% of specimens sequenced and reported (n=223) have been identified as BA.5; of which 69.9% of those specimens are BQ.1.1 (n=155)
  - 608 cases of XBB.1.5 have been identified in Michigan and has been detected in all 8 preparedness regions

95% P.I. = 95% prediction interval

Data last updated March 14, 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 – 62.3% 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 those of Non-Hispanic (NH) White (15.7%), then NH Asian, Native Hawaiian or Pacific Islander Race (14.6%), then NH American Indian (12.0%), NH Black or African American Races (8.6%).
- Up-to-date coverage is at 10.1% 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

45.3% of the population 65 years of age or older has received an updated (bivalent) booster

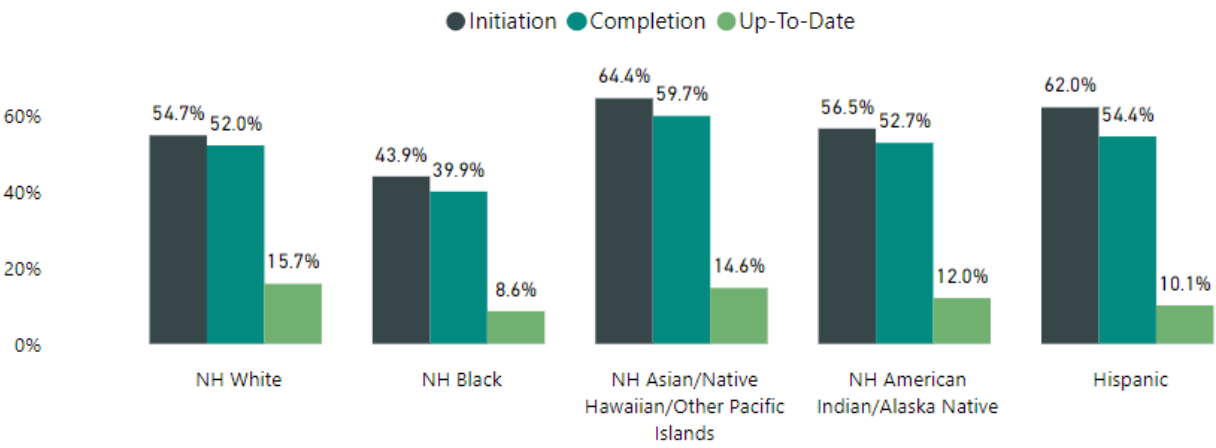
17.2% of all Michiganders have received their updated (bivalent) booster dose

## Vaccination Coverage in Michigan as of 3/8/2023

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster**	U.S. % Boosted**	Primary Series Total
Total Population	69.5%	62.3%	17.2%	16.3%	6,226,714
≥ 5 years	73.3%	65.9%	18.3%	17.3%	6,211,942
≥ 12 years	77.3%	69.5%	19.6%	18.6%	5,976,199
≥ 18 years	79.5%	71.5%	20.8%	19.7%	5,608,009
≥ 65 years	95.0%	91.4%	45.3%	41.6%	1,613,407

\*\*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.

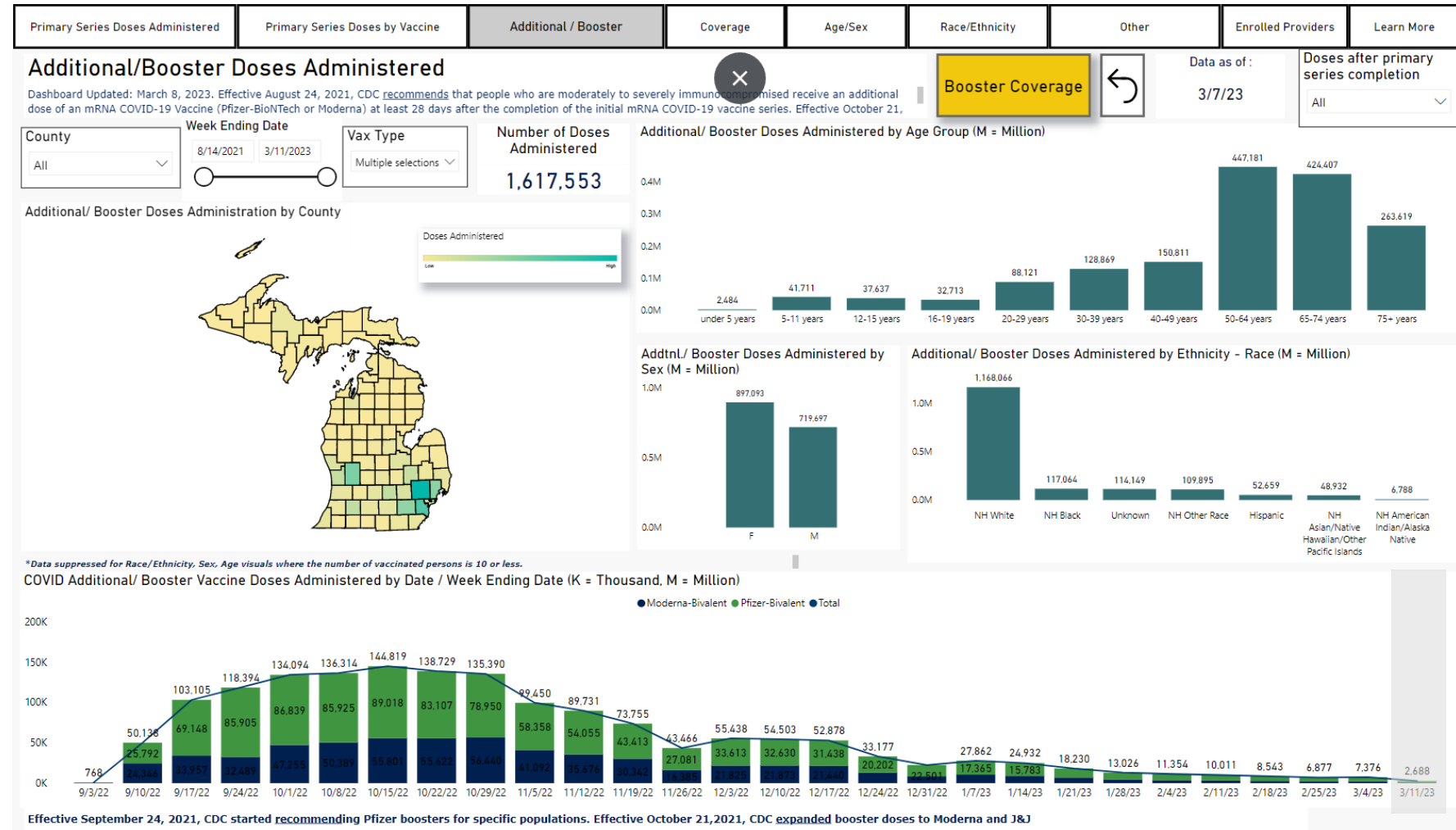
## Coverage by Race\*





# 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 3/7<sup>th</sup>, 1,617,553 Michiganders had received their bivalent booster
- Note: the data for the week ending 3/11 would have been incomplete on the date the dashboard was last refreshed (3/7)



● 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](#)