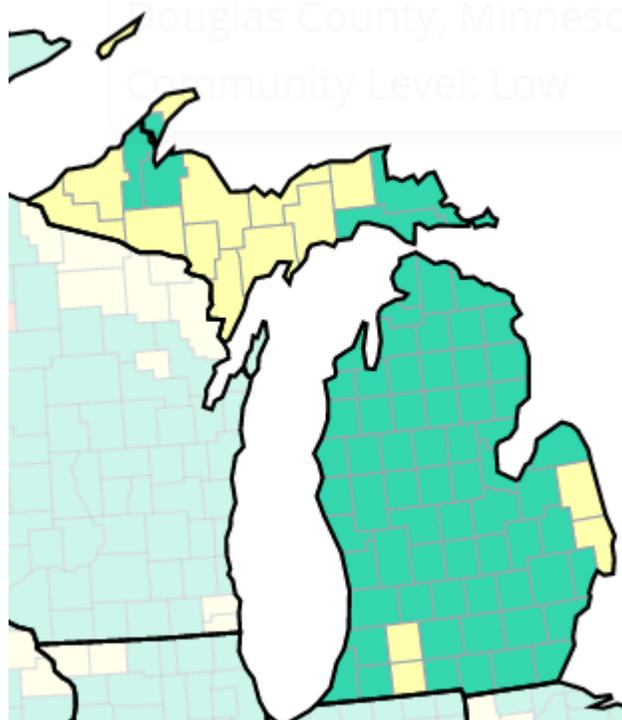


MI COVID RESPONSE DATA AND MODELING UPDATE

March 7, 2023

As of Mar 2, 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
- 15 Michigan counties are currently at Medium level (18%). This represents 7% of the population
- 68 Michigan counties are currently at Low level (82%). This represents nearly 93% of the population

Percent of Counties This Week

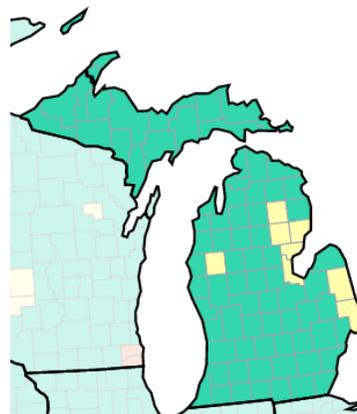
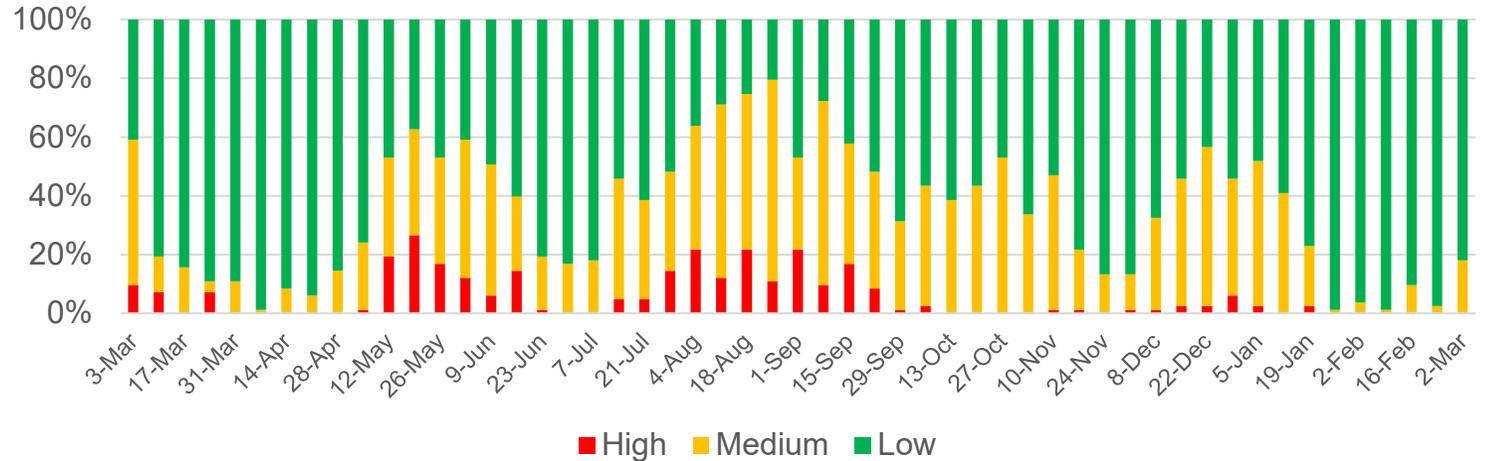
	United States	Michigan	Percent of MI Population
Low	82%	82%	93%
Medium	16%	18%	7%
High	2%	0%	0%

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

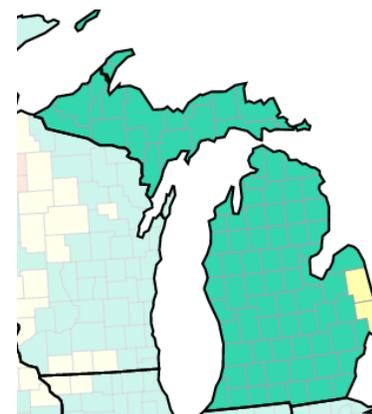
Michigan Trends of COVID-19 Community Levels

- As of March 2, no (0%) Michigan counties are at high COVID-19 community level, but 15 Michigan counties are currently at Medium level (18%). Together, these counties account for 7% of the population.
- The proportion of Michigan counties at medium and high is double that of the past 2 weeks
- Most counties that were elevated to medium community level this week were because the number of new hospital admissions exceeded 10 per 100,000 residents

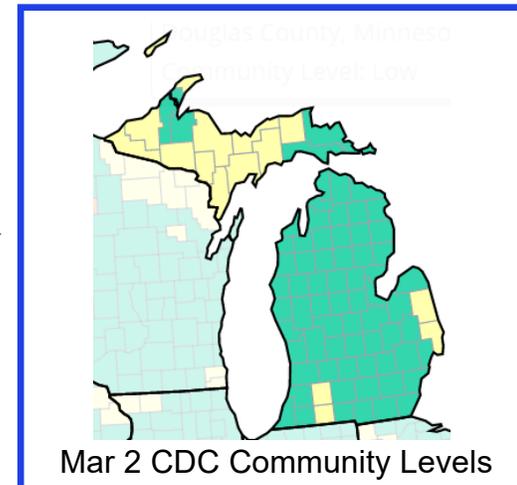
Weekly Percent of MI Counties by CDC COVID-19 Community Level



Feb 16 CDC Community Levels



Feb 23 CDC Community Levels



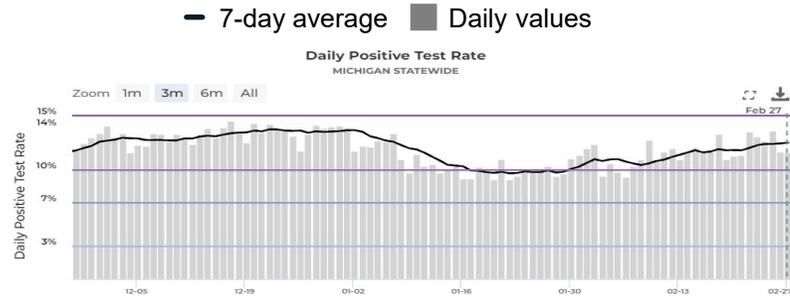
Mar 2 CDC Community Levels

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

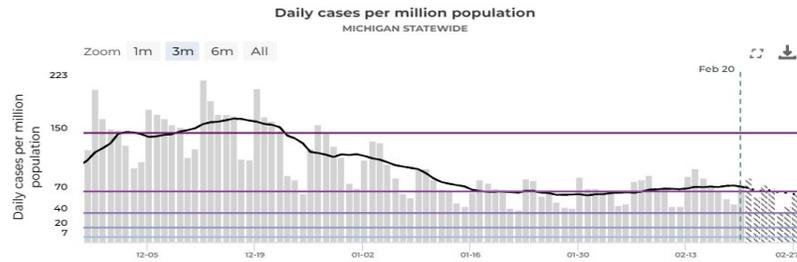
Statewide trends

Positivity, %



Current: 12.5%
Last Week: 11.8%

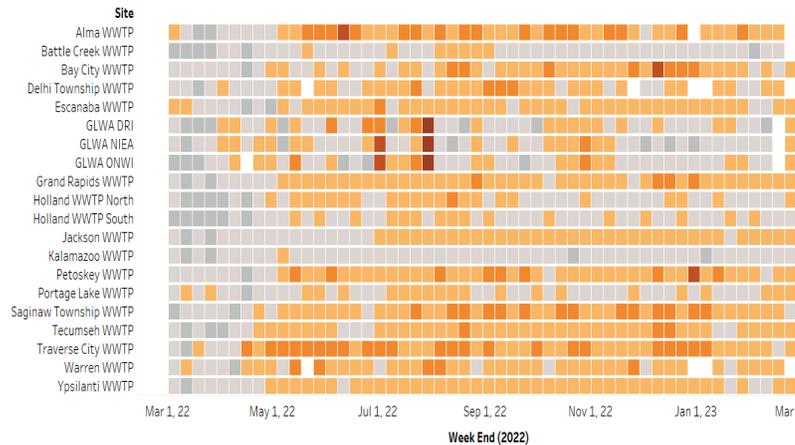
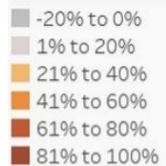
Daily cases per million



Current: 74.4
Last Week: 70.7

Wastewater

Percent Change



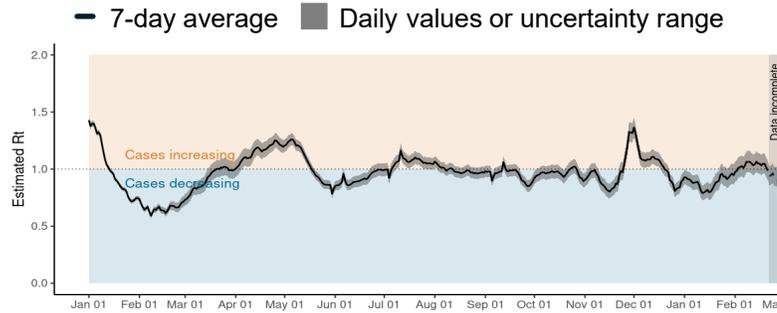
Current: 81% of sites are above 20% baseline threshold

Last Week: 64% of sites are above 20% baseline threshold

- Test percent positivity, is increasing compared to last week
- Case rates are slightly increasing since last week
- Twenty counties are currently showing an increase in cases and an additional 22 reported an elevated incidence plateau in case rates (via mstartmap.info as of 3/2/23, data through 2/20/23)
- 81% (13/16) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

Recent statewide COVID trends are plateaued

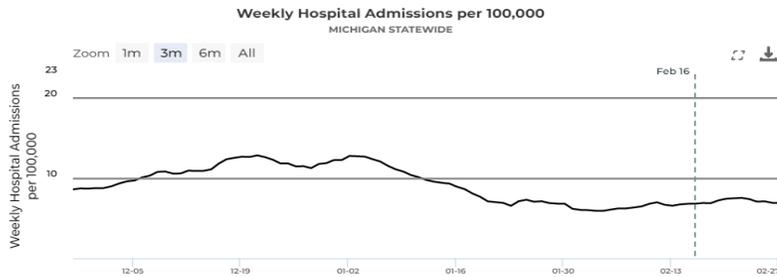
Statewide trends



Current: 0.99
Last Week: 1.03

Reproductive Number, R_t

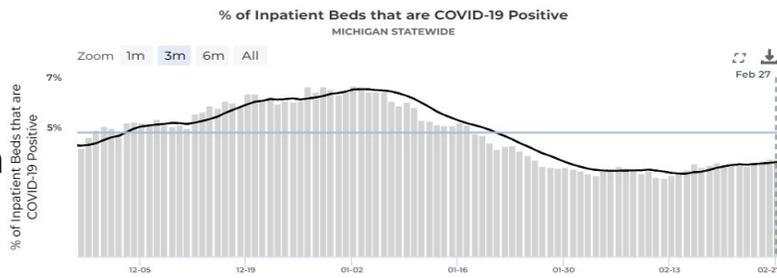
- The reproductive number (R_t) in Michigan is close to 1 indicating near plateau



Current: 6.9
Last Week: 7.4

Hospital Admissions

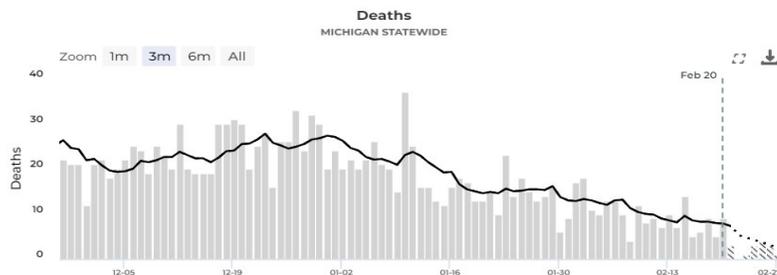
- There are an average of 6.9 hospital admissions per 100,000 Michiganders day which is slightly decreased from last week



Current: 3.9%
Last Week: 3.7%

Daily hospitalization rate, %

- The percent of inpatient beds that have patients diagnosed with COVID-19 (3.9%) are slightly increased compared to last week



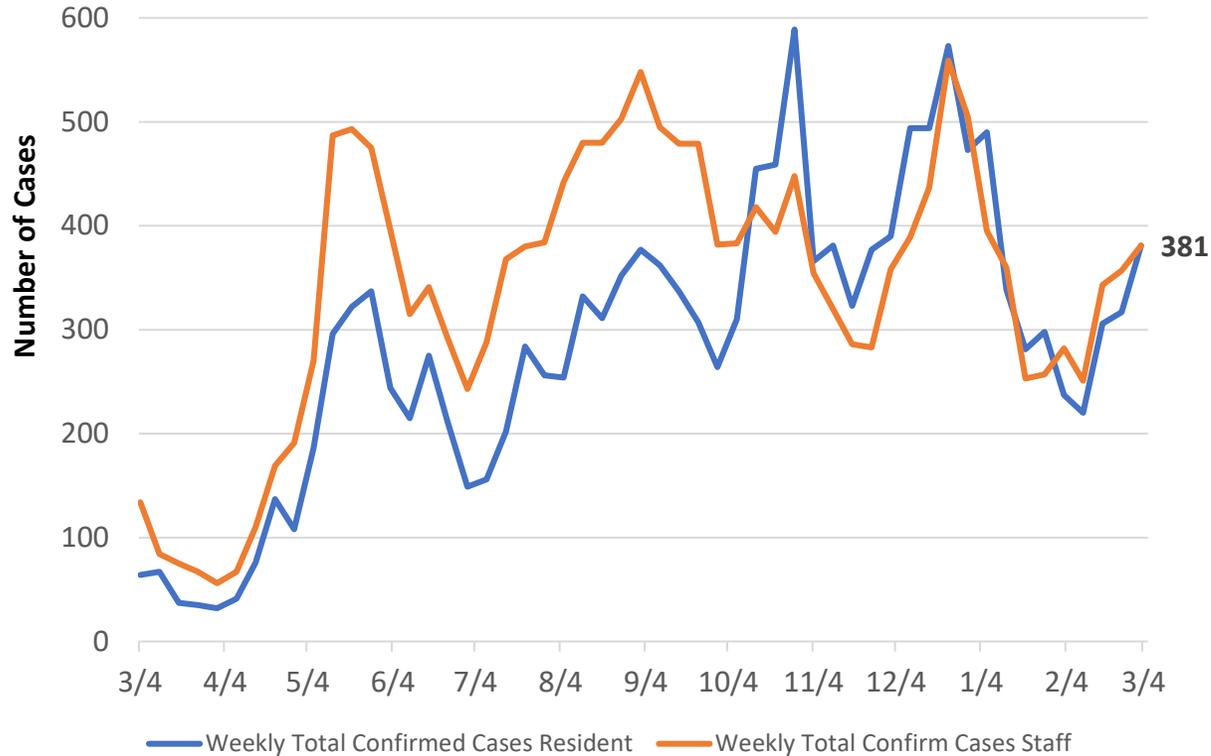
Current: 0.7
Last Week: 0.2

Deaths

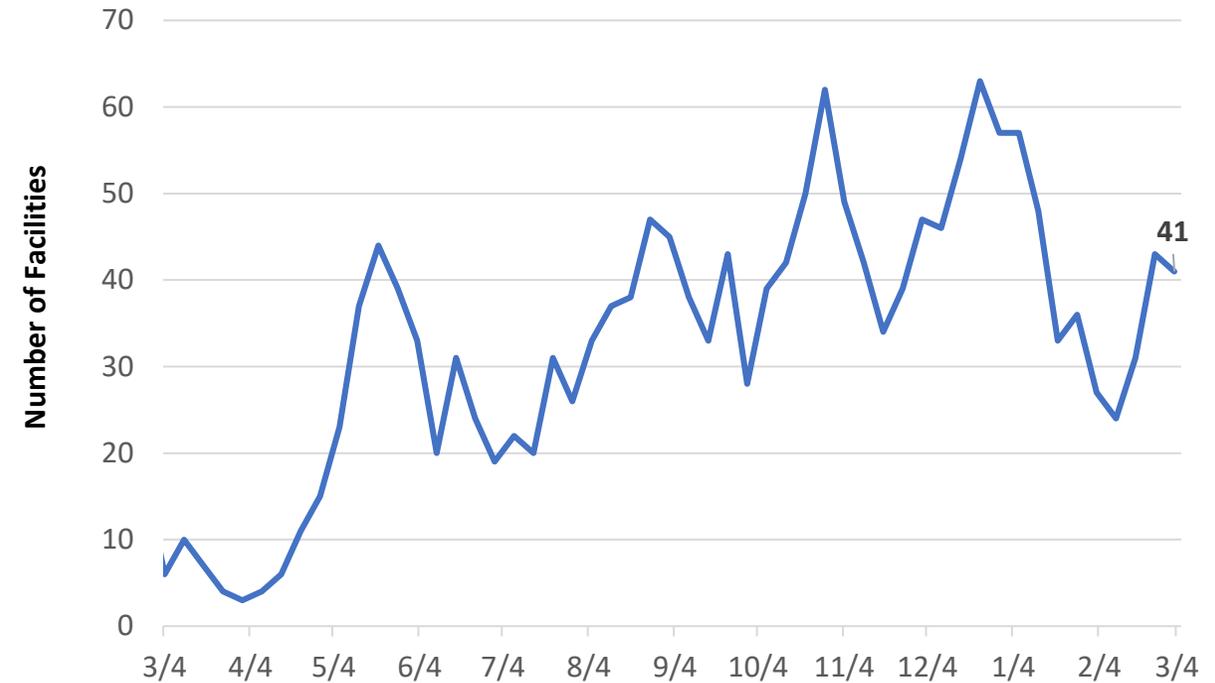
- Deaths are a lagging indicator but are plateaued some over the past week

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
03/02/2022 TO 03/03/2023



Number of SNFs with 3 or more Confirmed Cases
03/04/2022 TO 03/03/2023



- Case counts have increased in SNF residents (317 to 381) and in SNF staff (357 to 381) since last week [left graph]
 - The number of SNF facilities reporting 3 or more cases decreased since last week (43 to 41) [right graph]
 - Currently, **27%** of SNFs are reporting **nursing shortages** and **29%** 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

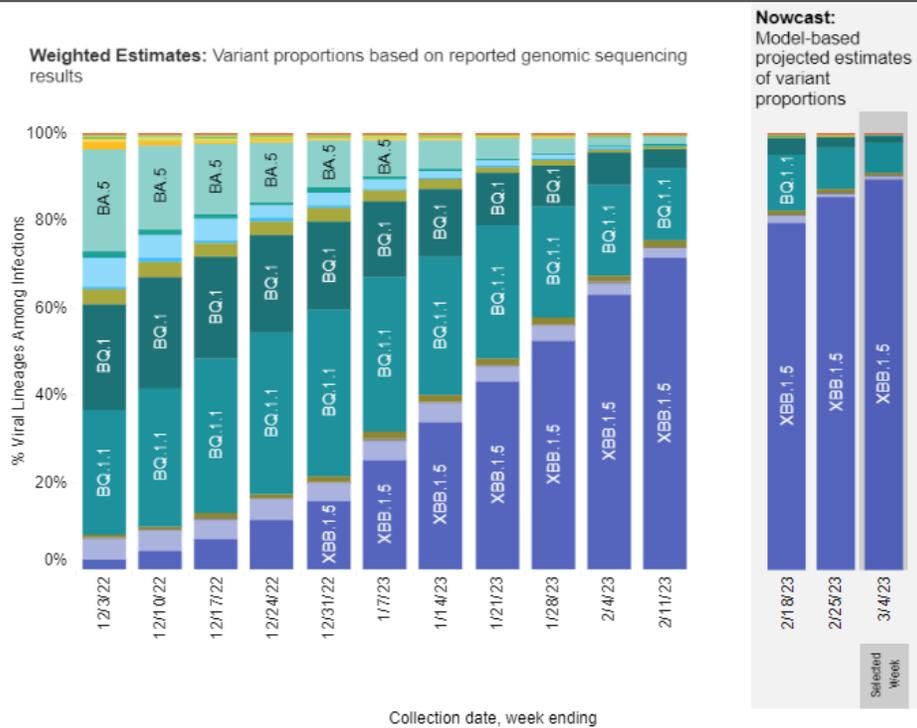
Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: XBB.1.5 sublineage remains predominant

SARS-CoV-2 Variants Circulating in the United States, Nov 20 – Feb 25 (NOWCAST)

Weighted and Nowcast Estimates in United States for Weeks of 11/27/2022 – 3/4/2023

Nowcast Estimates in United States for 2/26/2023 – 3/4/2023

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	89.6%	85.6-92.6%
	BQ.1.1	VOC	6.7%	4.7-9.4%
	BQ.1	VOC	1.6%	1.1-2.3%
	CH.1.1	VOC	0.8%	0.5-1.1%
	XBB	VOC	0.7%	0.5-1.0%
	BN.1	VOC	0.2%	0.2-0.4%
	BA.5	VOC	0.1%	0.1-0.1%
	BA.2	VOC	0.1%	0.0-0.5%
	BF.7	VOC	0.1%	0.0-0.1%
	BA.5.2.6	VOC	0.0%	0.0-0.0%
	BF.11	VOC	0.0%	0.0-0.0%
	BA.2.75	VOC	0.0%	0.0-0.0%
	BA.2.75.2	VOC	0.0%	0.0-0.0%
	BA.4.6	VOC	0.0%	0.0-0.0%
	B.1.1.529	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%	
Delta	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 BA.2 recombinant sublineage XBB.1.5 (89.6%, 95% P.I. 85.6-92.6%) is the most prevalent, while the BA.5 sublineages of BQ.1.1 comprise of approximately 6.7% of infections (95% P.I. 4.7-9.4%) during the week ending on March 4

Distribution in Michigan

- Since February 1, there have 510 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
 - Since February 1, 29.6% of specimens sequenced and reported (n=151) have been identified as BA.5; of which 68.9% of those specimens are BQ.1.1 (n=104)
 - 515 cases of XBB.1.5 have been identified in Michigan and has been detected in all 8 preparedness regions

* 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, sublineages of XBB are aggregated to XBB. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, CH.1.1 was aggregated to BA.2.75. Lineages BA.2.75.2, XBB, XBB.1.5, BN.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the spike substitution R346T.

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%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (14.5%), NH American Indian (11.9%), and NH Black or African American Races (8.5%).
- Up-to-date coverage is at 10.0% 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

45.1% of the population 65 years of age or older has received an updated (bivalent) booster

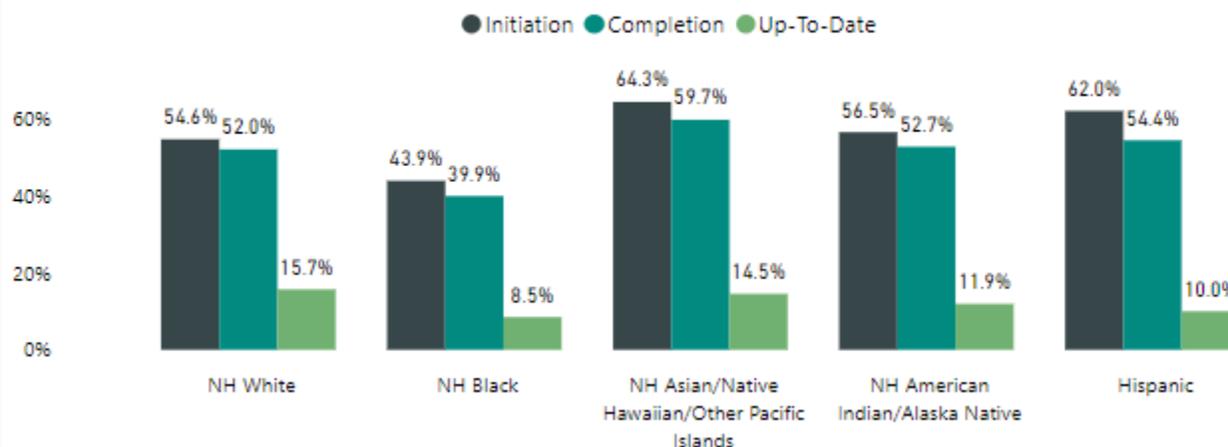
17.2% of all Michiganders have received their updated (bivalent) booster dose

Vaccination Coverage in Michigan as of 3/2/2023

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%	16.2%	6,225,457
≥ 5 years	73.3%	65.9%	18.2%	17.2%	6,210,793
≥ 12 years	77.3%	69.5%	19.5%	18.5%	5,975,207
≥ 18 years	79.5%	71.5%	20.8%	19.6%	5,607,092
≥ 65 years	95.0%	91.4%	45.1%	41.4%	1,613,260

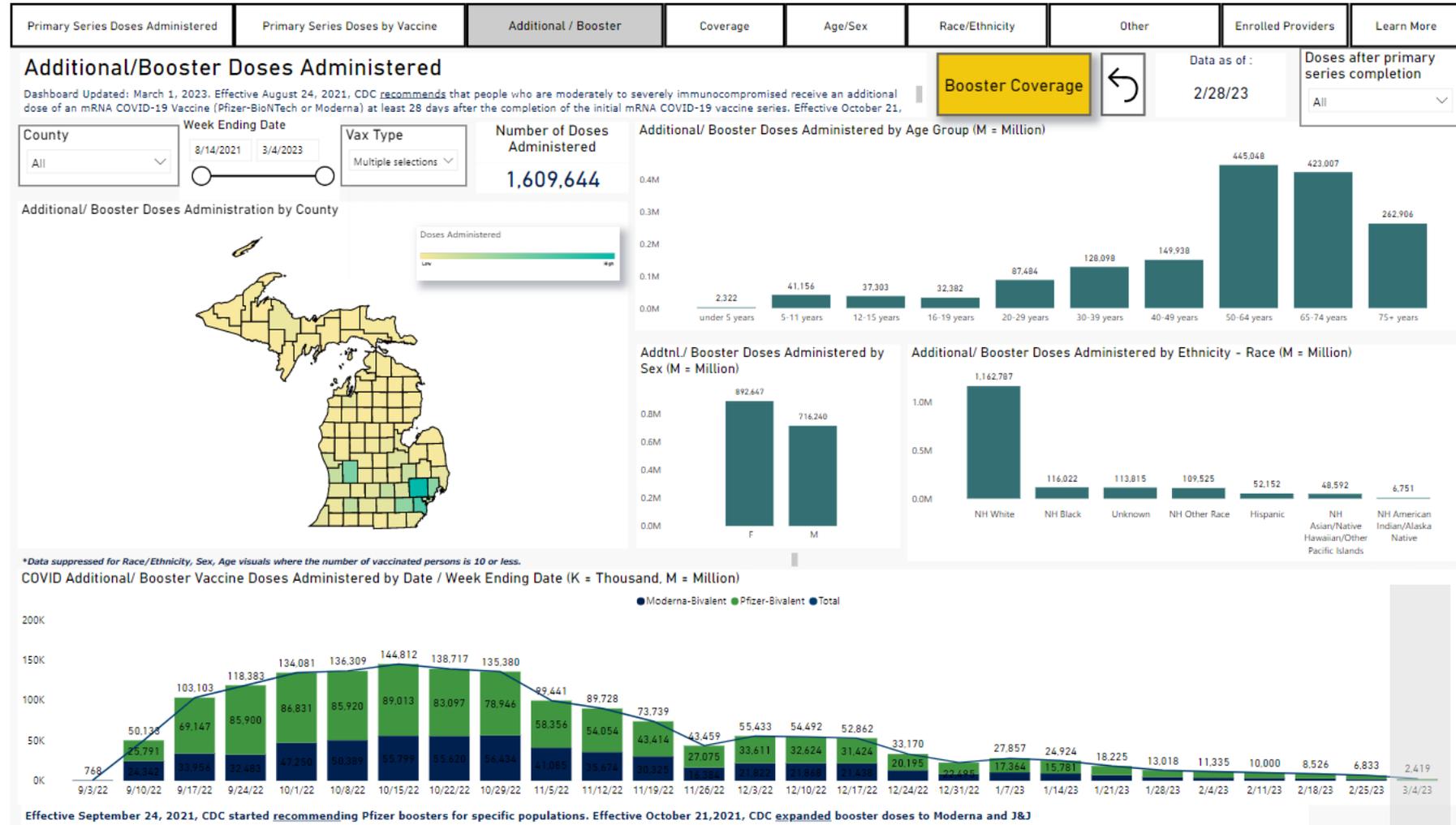
**This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

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 2/28[†], 1,609,644 Michiganders had received their bivalent booster
- Note: the data for the week ending 3/4 would have been incomplete on the date the dashboard was last refreshed (3/1)



● 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](#)