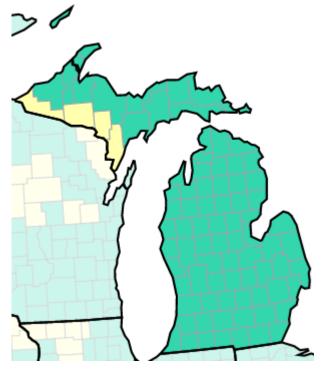
MI COVID RESPONSE DATA AND MODELING UPDATE

April 18, 2023

As of Apr 13, No Michigan Counties are 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, 0% (0/83) of counties are at high risk. This represents 0% of the population
- 4 Michigan counties are currently at Medium level (5%). This represents 1% of the population
- 79 Michigan counties are currently at Low level (95%). This represents 99% of the population

Percent of Counties This Week

	United	Percent of MI		
	States	Michigan	Population	
Low	97%	95%	99%	
Medium	2%	5%	1%	
High	1%	0%	0%	

Low	Medium	High
 Stay <u>up to date</u> with COVID-19 vaccines <u>Get tested</u> if you have symptoms 	 If you are <u>at high risk for severe</u> <u>illness</u>, talk to your healthcare provider about whether you need to wear a mask and take other precautions Stay <u>up to date</u> with COVID-19 vaccines <u>Get tested</u> if you have symptoms 	 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

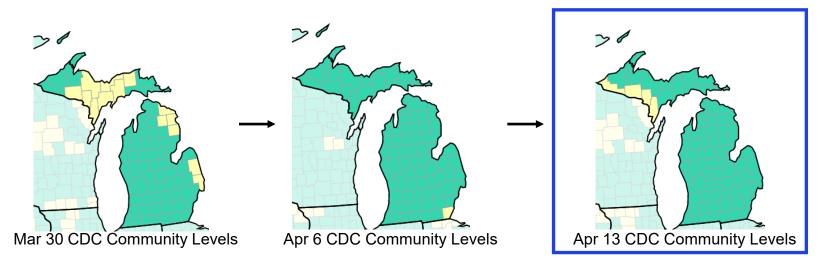
Michigan Trends of COVID-19 Community Levels

- As of April 13, no (0%)
 Michigan counties are at high
 COVID-19 community level
 and 4 Michigan counties are
 currently at Medium level
 (5%). Together, these
 counties account for 1% of the
 population.
- The number of counties at medium community level is higher than last week but lower than two weeks prior
- This is the third consecutive week with no counties at high

100%
80%
60%
40%
20%
0%

— High Medium Low

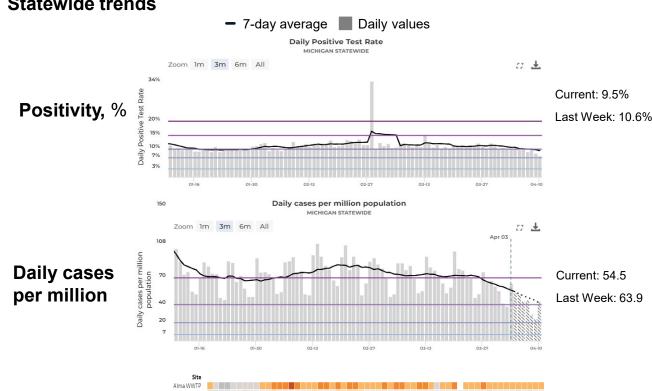
Weekly Percent of MI Counties by CDC COVID-19 Community Level

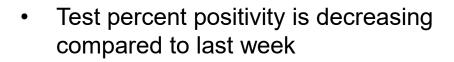


This metric uses three indicators for categorization: (1) new COVID-19 cases per 100,000 population in the last 7 days lagged 1 day behind the date the COVID-19 Community Level is calculated; (2) new COVID-19 hospital admissions per 100,000 population in the last 7 days; and (3) percent of staffed inpatient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

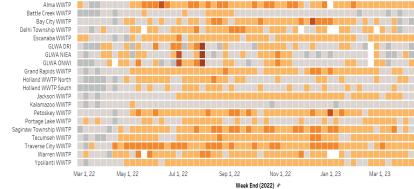




- Case rates are slightly decreasing compared to last week
- Five counties are currently showing an increase in cases and an additional 8 counties reported an elevated incidence plateau in case rates (via mistartmap.info as of 4/13/23, data through 4/3/23)
- 35% (7/20) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

Wastewater

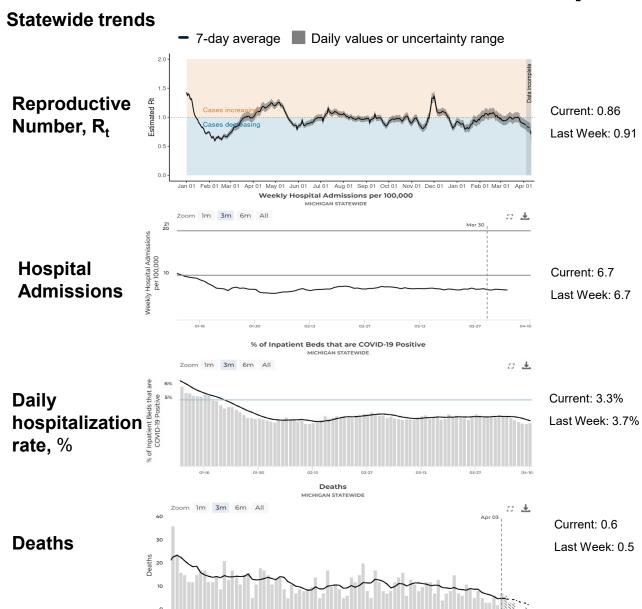
Percent Change -20% to 0% 1% to 20% 21% to 40% 61% to 80% 81% to 100%



Current: 35% of sites • are above 20% baseline threshold

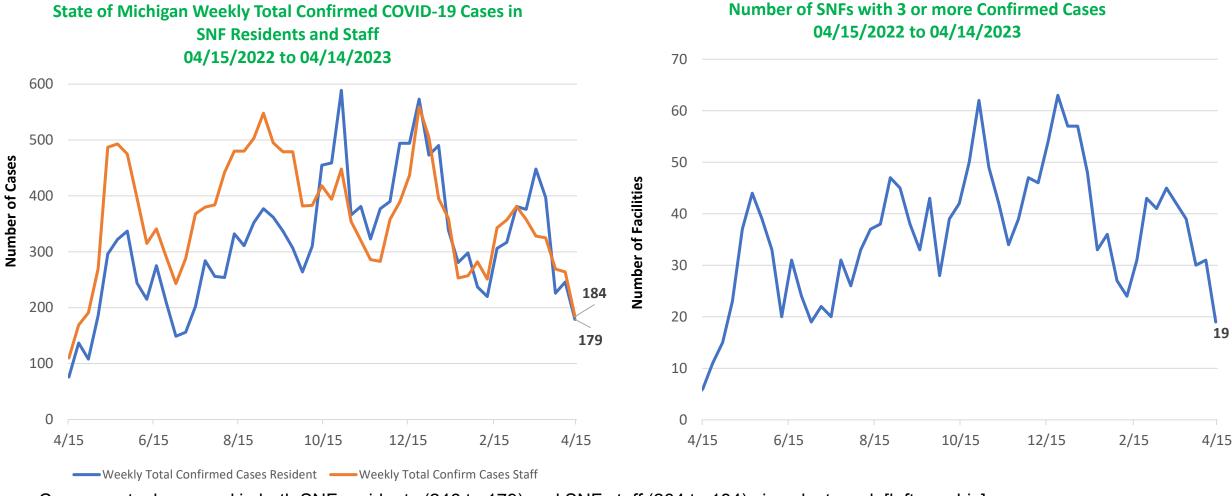
Last Week: 55% of sites are above 20% baseline threshold

Recent statewide COVID trends are plateaued



- The reproductive number (R_t) in Michigan is close to 1 indicating near plateau
- There is a daily average of 6.7 hospital admissions per 100,000 Michiganders which is plateaued compared to last week
- The percent of inpatient beds with COVID-19 positive patients (3.3%) are slightly lower 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



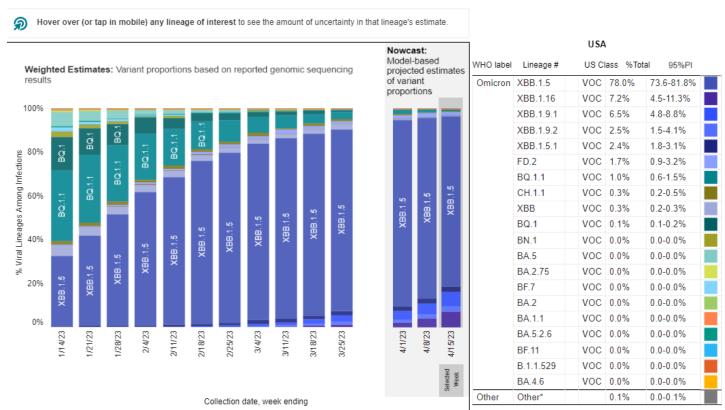
- Case counts decreased in both SNF residents (246 to 179) and SNF staff (264 to 184) since last week [left graphic]
- The number of SNF facilities reporting 3 or more cases decreased since last week (31 to 19) [right graphic]
- Currently, **25**% of SNFs are reporting **nursing shortages** and **27**% 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, Jan 8 – Apr 15 (NOWCAST)

Weighted and Nowcast Estimates in United States for Weeks of 1/8/2023 – 4/15/2023

Nowcast Estimates in United States for 4/9/2023 – 4/15/2023



^{*} 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

National Distribution

- 100% of the VOCs currently circulating in the U.S. are Omicron
- Nowcast estimates project that XBB.1.5 (78.0%, 95% P.I. 73.6-81.8%) is the most prevalent, while XBB.16 comprise of 7.2% of infections (95% P.I. 4.5-11.3%), and XBB.1.9.1 comprise of approximately 6.5% of infections (95% P.I. 4.8-8.8%), while all other lineages comprise of less than an estimated 3% during the week ending on April 15

Distribution in Michigan

- Since March 1, there have been 669 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
 - Since March 1, 9.6% of specimens sequenced and reported (n=64) have been identified as BA.5; of which 78.1% of those specimens are BQ.1.1 (n=50)
 - Since March 1, 85.5% of specimens sequenced and reported (n=572) have been identified as XBB.1.5
 - In Michigan, a total of 16 cases of XBB.1.5.1, 10 cases of XBB.1.9.1, and 4 cases of XXB.1.9.2 have been identified

95% P.I. = 95% prediction interval Data last updated April 18, 2023

[#] 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.2.75. 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. In and FD.2, sublineages of XBB.1.5 are aggregated to XBB.1.5. For all the other lineages listed, their sublineages are aggregated to XBB.1.5 are aggregated to XBB.1.5. For all the other lineages listed, their sublineages of XBB.1.5. XBB.1.5. YBB.1.5.1, FD.2, XBB.1.9.2 and XBB.1.5. XBB.1.5. XBB.1.5. XBB.1.5.1, FD.2, XBB.1.9.2, XBB.1.5. XBB.1.5

Over 6.2 Million Michiganders have completed the primary series – 62.6% 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*

69.8% 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 (16.1%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (15.1%), NH American Indian (12.3%), and NH Black or African American races (9.0%).
- Up-to-date coverage is at 10.5% 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

46.1% of the population 65 years of age or older has received an updated (bivalent) booster

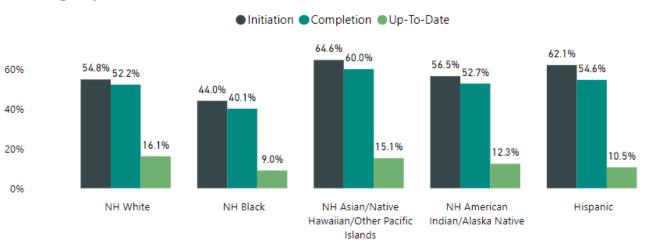
17.7% of all Michiganders have received their updated (bivalent) booster dose

Vaccination Coverage in Michigan as of 4/12/2023

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster**	U.S. % Boosted**	Primary Series Total
Total Population	69.8%	62.6%	17.7%	16.7%	6,248,481
≥ 5 years	73.4%	66.0%	18.7%	17.8%	6,216,502
≥ 12 years	77.4%	69.6%	20.1%	19.1%	5,980,185
≥ 18 years	79.6%	71.6%	21.3%	20.2%	5,611,666
≥ 65 years	95.0%	91.4%	46.1%	42.6%	1,614,071

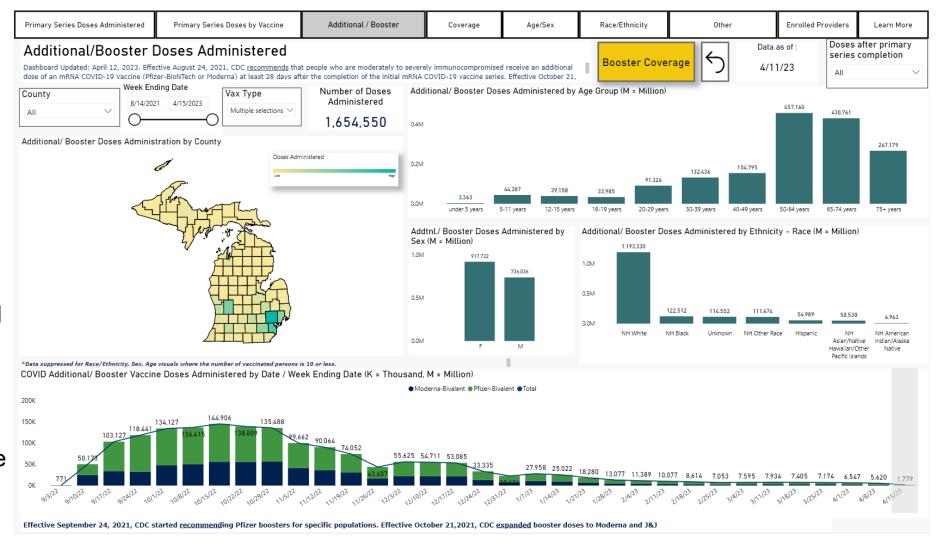
^{**}This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

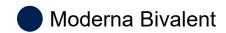
Coverage by Race*



Bivalent Administration

- FDA has authorized and CDC recommends the updated bivalent COVID-19 vaccines to everyone over the age of 6 months.
 FDA has authorized a second bivalent booster for certain individuals.*
- As of April 11[¶], 1,654,550
 Michiganders have received their bivalent booster
- Note: the data for the week ending 4/15 would have been incomplete on the date the dashboard was last refreshed (4/11)







¶ 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 9 Sources: Michigan Coronavirus Vaccine Dashboard

^{*} CDC Expands Updated COVID-19 Vaccines to Include Children Ages 6 Months through 5 Years; Updated FDA authorization