MI COVID RESPONSE DATA AND MODELING UPDATE

April 11, 2023

As of Apr 6, 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
- One Michigan county is currently at Medium level (1%). This represents 2% of the population
- 82 Michigan counties are currently at Low level (99%). This represents 98% of the population

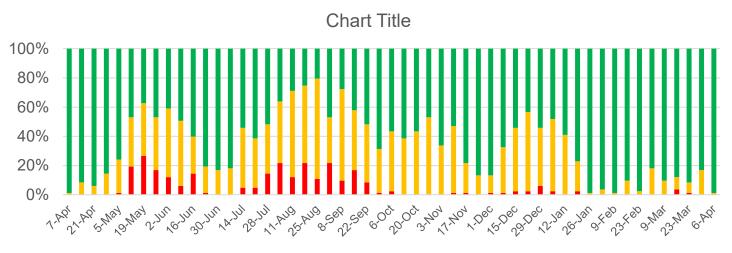
Percent of	Counties	This Week
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	United	Percent of MI		
	States	Michigan	Population	
Low	96%	99%	98%	
Medium	4%	1%	<mark>2%</mark>	
High	<1%	0%	0%	

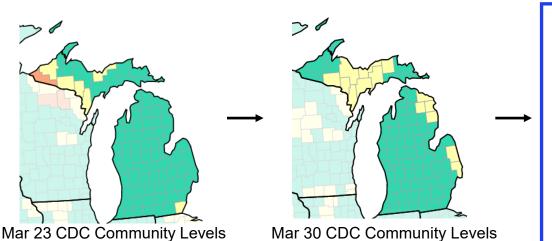
Low	Medium	High
 Stay <u>up to date</u> with COVID-19 vaccines <u>Get tested</u> if you have symptoms 	 If you are <u>at high risk for severe</u> <u>illness</u>, talk to your healthcare provider about whether you need to wear a mask and take other precautions Stay <u>up to date</u> with COVID-19 vaccines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

Michigan Trends of COVID-19 Community Levels

 As of April 6, no (0%) Michigan counties are at high COVID-19 community level and only 1 Michigan county is currently at Medium level (1%). Together, these counties account for 2% of the population.



■ High ■ Medium ■ Low





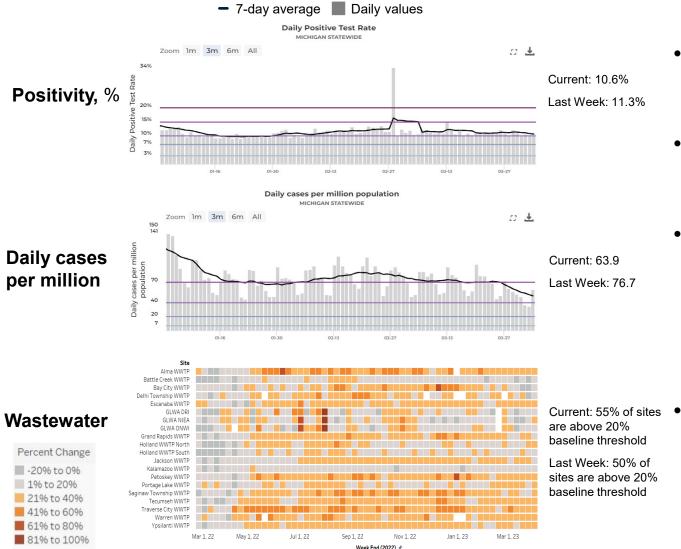
 The number of counties at low matches a 52 week low last seen on February 9

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 .

Source: CDC COVID-19 Community Levels https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=all_states&list_select_county=all_counties&data-type=CommunityLevels

Recent statewide COVID trends are plateaued

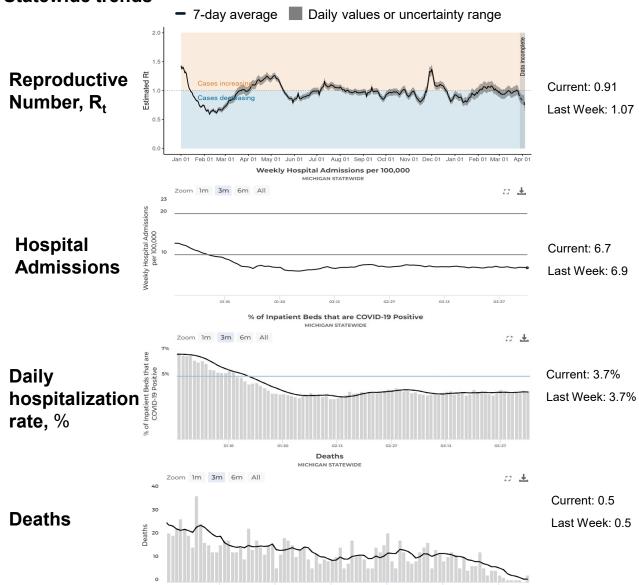
Statewide trends



- Test percent positivity is decreasing compared to last week
- Case rates are slightly decreasing compared to last week
- Two counties are currently showing an increase in cases and an additional 8 reported an elevated incidence plateau in case rates (via mistartmap.info as of 4/6/23, data through 3/27/23)
- 55% (11/20) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

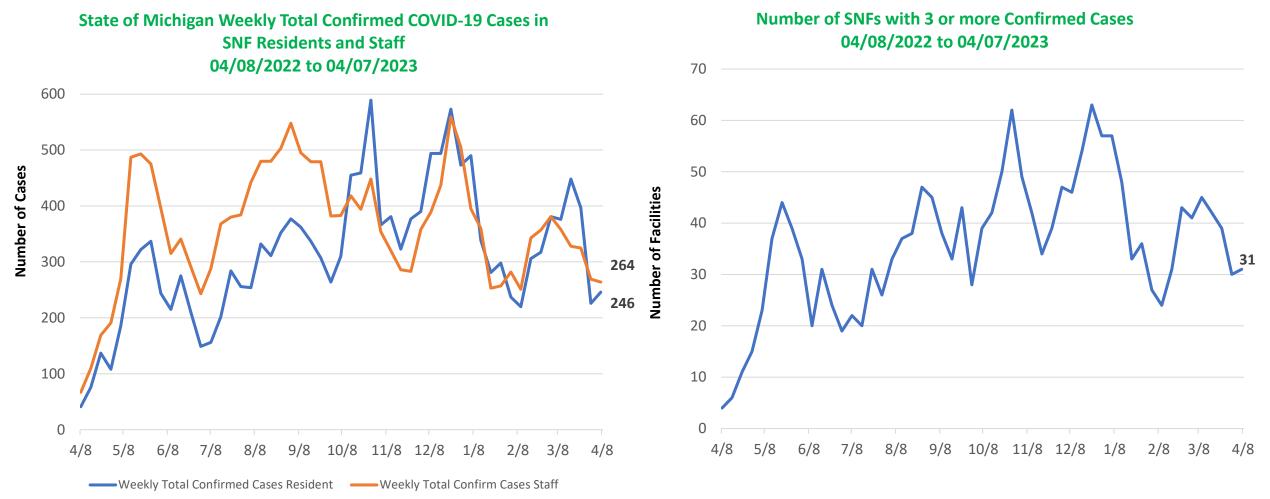
Recent statewide COVID trends are plateaued

Statewide trends



- 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 (3.7%) 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



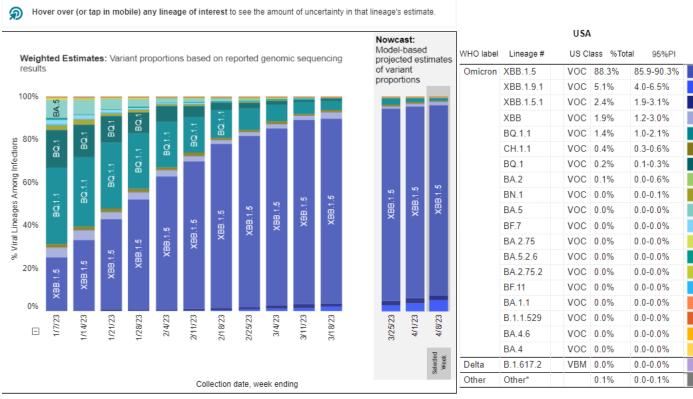
- Case counts have increased in SNF residents (226 to 246) but decreased in SNF staff (269 to 264) since last week [left graphic]
- The number of SNF facilities reporting 3 or more cases increased slightly since last week (30 to 31) [right graphic]
- Currently, **26%** of SNFs are reporting **nursing 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 25 – Apr 1 (NOWCAST)

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

95% P.I. = 95% prediction interval

Nowcast Estimates in United States for 4/2/2023 – 4/8/2023



* 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.2.75. Except BA.2.75, XBB and their sublineages, BA.2 sublineages are aggregated with BA.2.75. Except BA.2.75, KBB 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 XBB.1.9.1, XBB.1.5 and its 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.1.5.1, XBB.1.9.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the spike substitution R346T.

National Distribution

- 100% of the VOCs currently circulating in the U.S. are Omicron
- Nowcast estimates project that XBB.1.5 (88.3%, 95% P.I. 85.9-90.3%) is the most prevalent, while XBB.1.9.1 comprise of 5.1% of infections (95% P.I. 4.0-6.5%), and XBB.1.5.1 comprise of approximately 2.4% of infections (95% P.I. 1.9-3.0%) during the week ending on April 8

Distribution in Michigan

- Since March 1, there have been 650 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
 - Since March 1, 9.9% 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, 85.4% of specimens sequenced and reported (n=555) have been identified as XBB.1.5
 - A total of 1,475 cases of XBB.1.5 have been identified in Michigan with the earliest specimen identified on November 30, 2022

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 (16.0%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (15.0%), NH American Indian (12.2%), and NH Black or African American races (8.8%).
- Up-to-date coverage is at 10.4% 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

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%	6,248,424
≥ 5 years	73.4%	66.0%	18.7%	17.7%	6,216,445
≥ 12 years	77.4%	69.6%	20.1%	19.0%	5,980,129
≥ 18 years	79.6%	71.5%	21.3%	20.1%	5,611,606
≥ 65 years	95.0%	91.4%	46.1%	42.4%	1,614,042

Vaccination Coverage in Michigan as of 3/29/2023

**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.

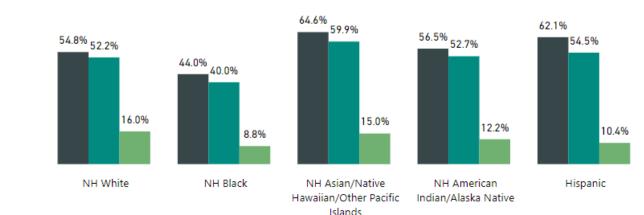
Coverage by Race*

60%

40%

20%

0%



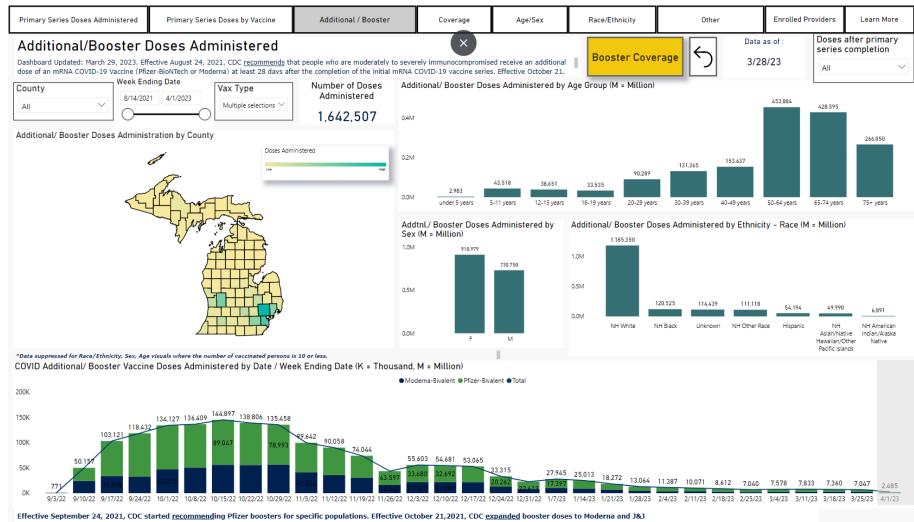
Initiation Completion Up-To-Date

Source: *CDC COVID Data Tracker > Vaccinations in the US, ¶ MCIR COVID-19 Vaccine Dashboard

Note: Now include all those 6 months and older in calculations

Bivalent Administration

- FDA has authorized and CDC recommends the use of the bivalent COVID-19 vaccines to everyone over the age of 6 months.*
- As of March 28[¶], 1,642,507 Michiganders have received their bivalent booster
- Note: the data for the week ending 4/1 would have been incomplete on the date the dashboard was last refreshed (3/28)
- Michigan dashboard is not updated this week due to technical issues



Moderna 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 9 Sources: Michigan Coronavirus Vaccine Dashboard