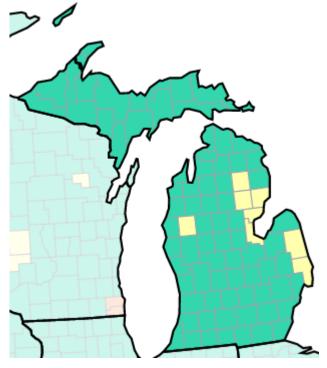
MI COVID RESPONSE DATA AND MODELING UPDATE

February 21, 2023

As of Feb 16, No Michigan Counties are at High COVID-19 Community Level



- In the US, 3% 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 4% of the population
- 73 Michigan counties are currently at Low level (90%). This represents 96% of the population

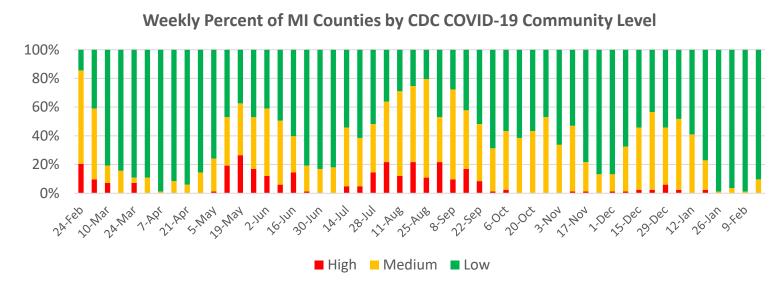
Percent of Counties This Week

	United	Percent of MI		
	States	Michigan	Population	
Low	77%	90%	96%	
Medium	20%	10%	4%	
High	3%	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 Feb 16, no (0%) Michigan counties are at high COVID-19 community level and 8 Michigan county is currently at Medium level (10%). Together, these counties account for 4% of the population.



- The proportion of Michigan counties at medium and high is higher than last week
- The past 4 weeks have seen the longest streak of consecutive weeks with counties at low level over the past year

Feb 2 CDC Community Levels

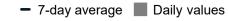
Feb 9 CDC Community Levels

Feb 16 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

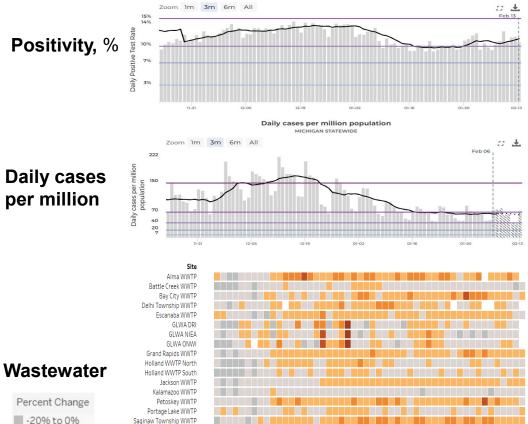
Statewide trends



Daily Positive Test Rate

MICHIGAN STATEWIDE

Jul 1, 22



Current: 11.3% Last Week: 10.9%

Current: 64.9

Last Week: 59.1

last week

Case rates are slightly increasing since

Test percent positivity, is slightly

increasing compared to last week

Eight counties are currently showing an increase in cases and an additional 23 reported an elevated incidence plateau in case rates (via mistartmap.info as of 2/16/23, data through 2/6/23)

57% (8/14) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

-20% to 0% 1% to 20% 61% to 80% 81% to 1009

Tecumseh WWTF

Warren WWT

Traverse City WWTP

Current: 57% of sites are above 20% baseline threshold

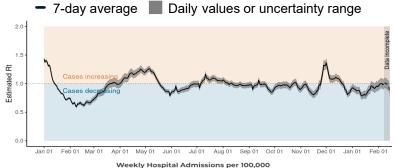
Last Week: 60% of sites are above 20% baseline threshold

Jan 1, 23

Recent statewide COVID trends are plateaued

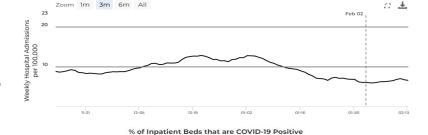
Statewide trends





Current: 0.99 Last Week: 0.90

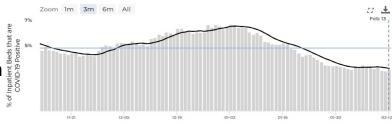
Hospital Admissions



MICHIGAN STATEWIDE

Current: 6.6 Last Week: 6.2

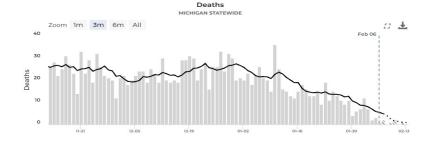
Daily hospitalization rate, %



Current: 3.3%

Last Week: 3.5%

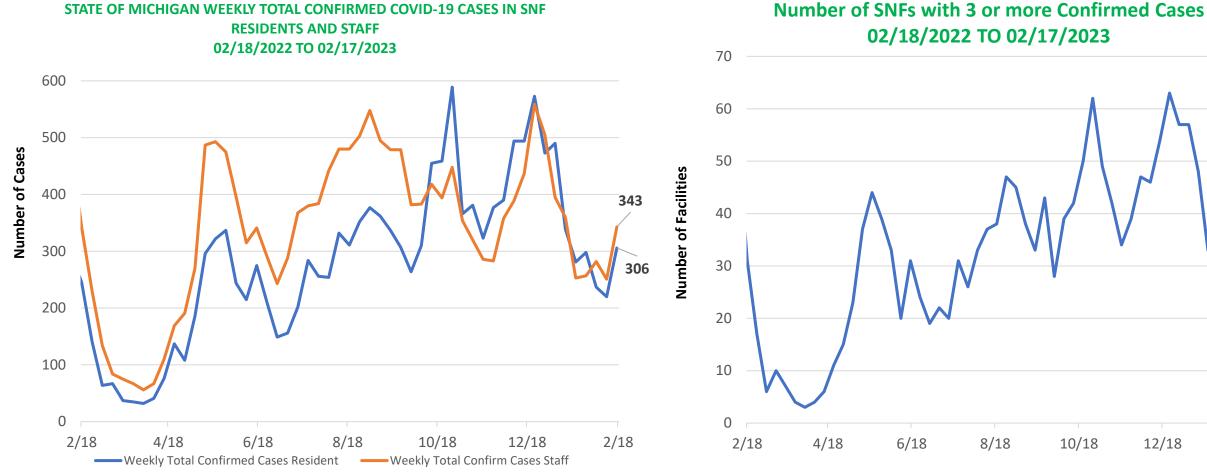
Deaths



Current: 0.5
Last Week: 0.7

- The reproductive number (R_t) in Michigan is near 1 indicating plateau
- There are an average of 6.6 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 are slightly lower than 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



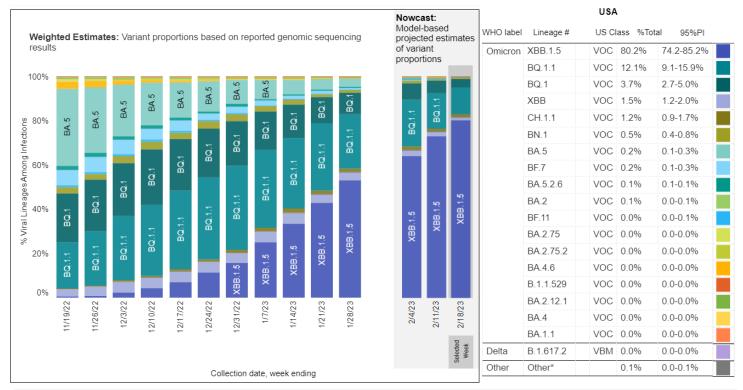
- Case counts have increased in SNF residents (237 to 306) and in SNF staff (282 to 343) since last week [left graph]
- The number of SNF facilities reporting 3 or more cases increased since last week (27 to 31) [right graph]
- Currently, 27% of SNFs are reporting nursing shortages and 29% of SNFs are 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

2/18

Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: XBB.1.5 sublineage increasing the fastest SARS-CoV-2 Variants Circulating in the United States, Nov 13 – Feb 18 (NOWCAST)

Weighted and Nowcast Estimates in United States for Weeks of 11/13/2022 – 2/18/2023

Nowcast Estimates in United States for 2/12/2023 – 2/18/2023



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.1.529. 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 issted, their sublineages are 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 BA.3.461.

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 (80.2%, 95% P.I. 74.2-85.2%), as well as the BA.5 sublineages of BQ.1.1 (12.1%, 95% P.I. 9.1-15.9%), and BQ.1 (3.7%, 95% P.I. 2.7-5.0%) are most prevalent during the week ending on February 18

Distribution in Michigan

- Since January 15, there have 594 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
 - Since January 15, 63.0% of specimens sequenced and reported (n=374) have been identified as BA.5; of which 19.8% have been identified as BQ.1 (n=74), and 66.8% as BQ.1.1 (n=250)
 - 244 cases of XBB.1.5 have been identified in Michigan and has been detected in 7 of the 8 preparedness regions

95% P.I. = 95% prediction interval Data last updated February 21, 2023

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*

69.4% 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 (15.5%), then NH Asian, Native Hawaiian or Pacific Islander Race (14.3%), then NH American Indian (11.8%), NH Black or African American Races (8.3%).
- Up-to-date coverage is at 9.8% 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

44.8% of the population 65 years of age or older has received an updated (bivalent) booster

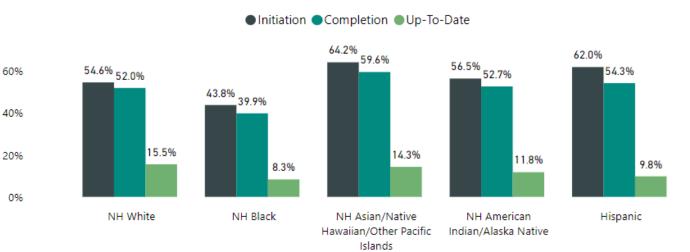
17.0% of all Michiganders have received their updated (bivalent) booster dose

Vaccination Coverage in Michigan as of 2/15/2023

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster**	U.S. % Boosted**	Primary Series Total
Total Population	69.4%	62.3%	17.0%	16.0%	6,222,886
≥ 5 years	73.3%	65.9%	18.0%	16.9%	6,208,496
≥ 12 years	77.3%	69.5%	19.3%	18.2%	5,973,233
≥ 18 years	79.5%	71.5%	20.6%	19.3%	5,605,299
≥ 65 years	95.0%	91.4%	44.8%	41.0%	1,612,937

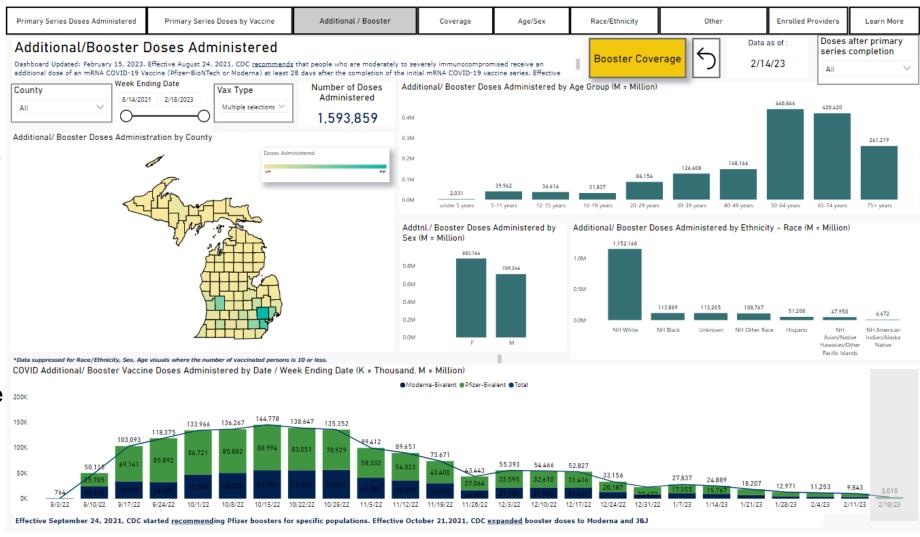
^{**}This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

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 2/14[¶], 1,593,859
 Michiganders had received their bivalent booster
 - Note: the data for the week ending 2/18 would have been incomplete on the date the dashboard was last refreshed (2/14)







¶ 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

Bivalent COVID-19 Booster Doses Protected Against Infection and Death During the BA.4 and BA.5 Waves

- Staying up-to-date COVID-19 vaccine can help save lives
- Bivalent COVID-19 booster doses protected against infection and death during BA.4/BA.5 waves
 - Bivalent booster recipients in 24 U.S.
 jurisdictions had slightly higher
 protection against infection and
 significantly higher protection against
 death than was observed for
 monovalent booster recipients or
 unvaccinated persons, especially
 among older adults
- All eligible persons should get 1 bivalent booster dose ≥2 months after their COVID-19 primary series or last monovalent booster dose.



14X less likely to die

compared with those who received no vaccine

3X less likely to die

compared with those who received only the original COVID-19 vaccine(s)

People ages 12+ who got their last COVID-19 vaccine dose before September 2022 should get an updated vaccine



bit.ly/mm7206a3

FEBRUARY 10, 2023

