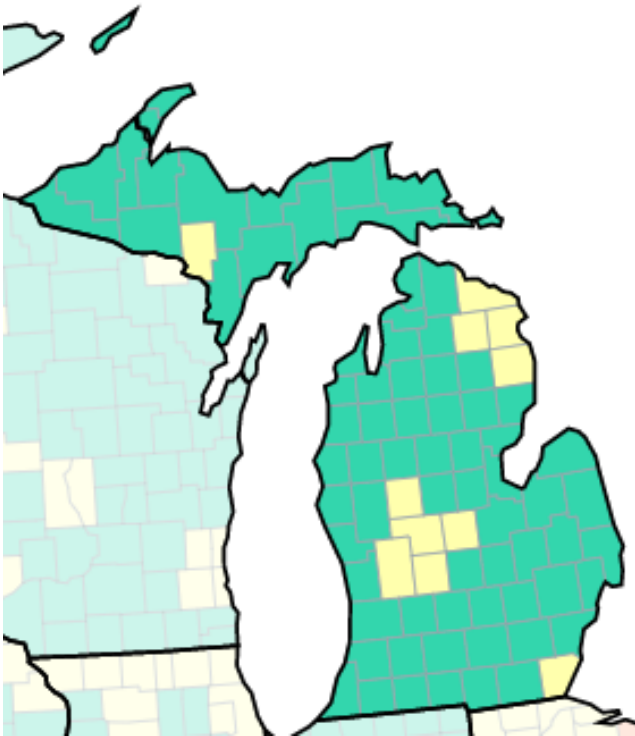




MI COVID RESPONSE DATA AND MODELING UPDATE

November 29, 2022

As of Nov 24, No Michigan Counties are at High COVID-19 Community Level



- In the US, 4% 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
- 11 Michigan counties are currently at Medium level (13%). This represents 11% of the population
- 72 Michigan counties are currently at Low level (87%). This represents 89% of the population

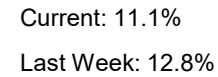
Percent of Counties This Week

	United States	Michigan	Percent of MI Population
Low	78%	87%	89%
Medium	18%	13%	11%
High	4%	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

Statewide trends

Positivity, %



Current: 91.2
Last Week: 116.9

Current: 70% of sites are above 20% baseline threshold

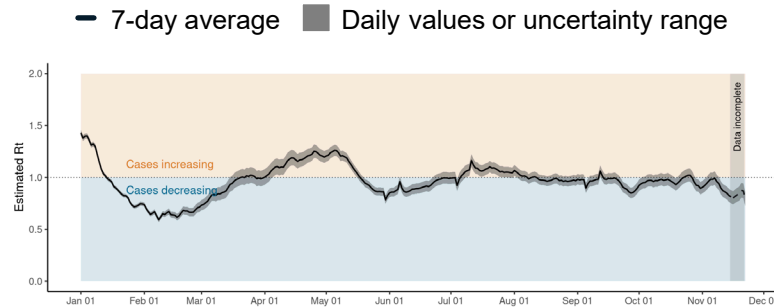
Last Week: 75% of sites are above 20% baseline threshold

- 3

Recent statewide trends are plateaued

Statewide trends

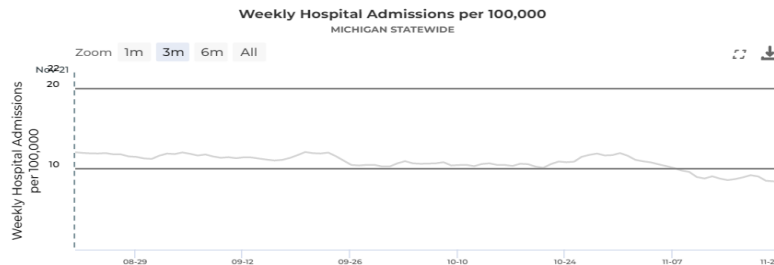
Reproductive Number, R_t



Current: 0.78

Last Week: 0.88

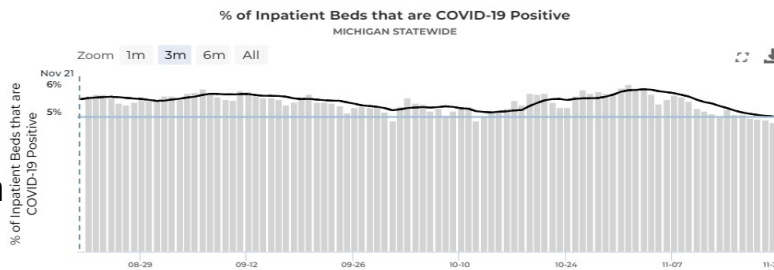
Hospital Admissions



Current: 8.8

Last Week: 9.2

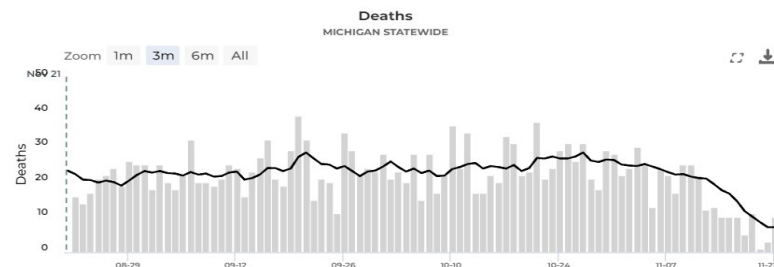
Daily hospitalization rate, %



Current: 4.9%

Last Week: 5.1%

Deaths



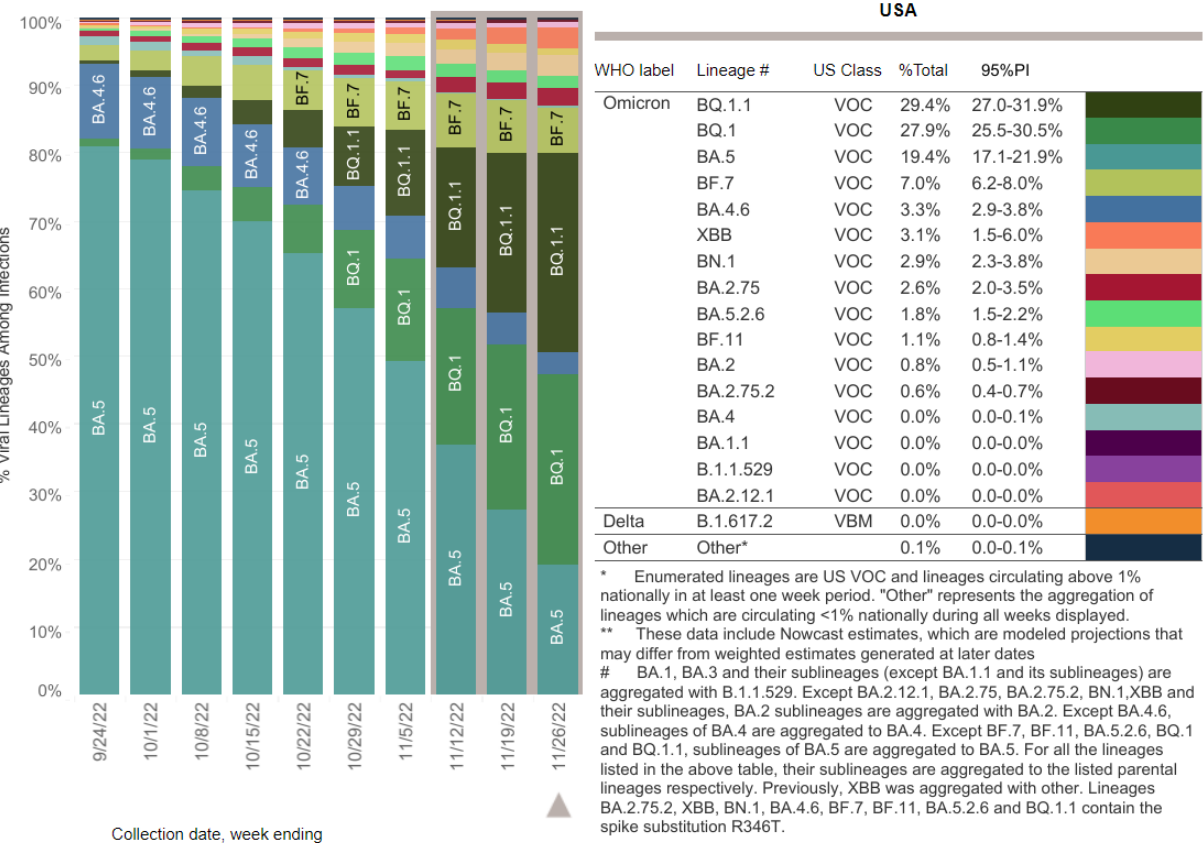
Current: 1.7

Last Week: 1.3

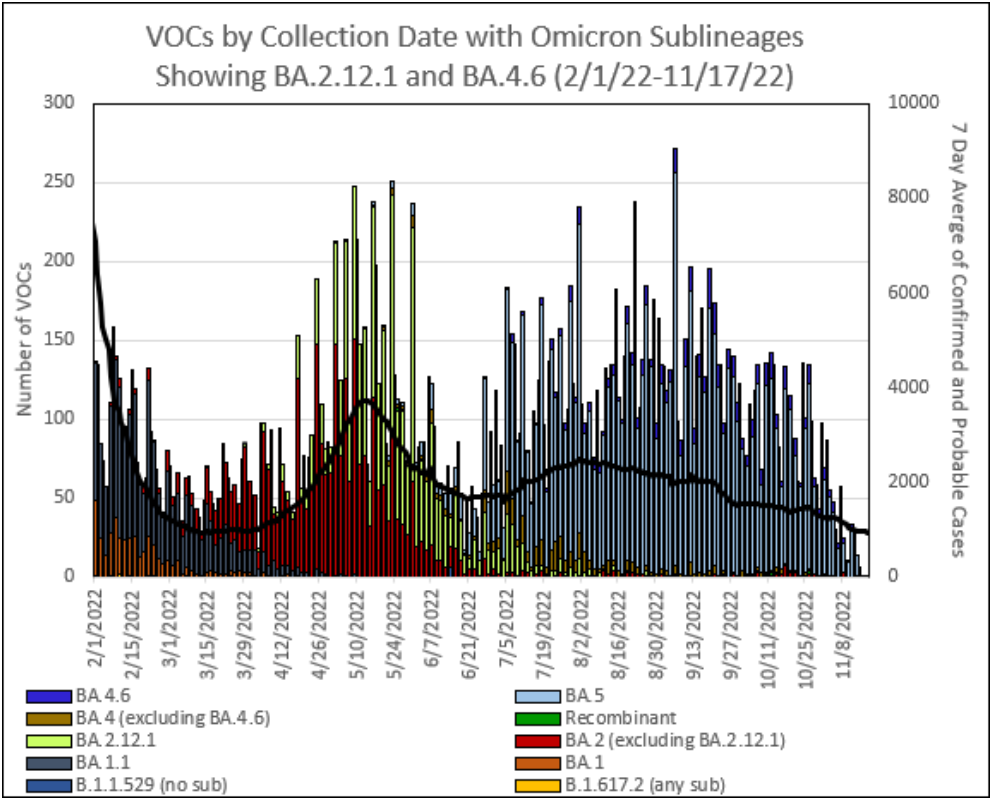
- The reproductive number (R_t) in Michigan is near 1 indicating that case trends are plateaued
- There are an average of 8.8 hospital admissions per 100,000 Michiganders day which is slightly lower than last week
- The percent of inpatient beds that have patients diagnosed with COVID-19 have seen a slight decrease for past week
- Deaths are a lagging indicator but remain steady compared to last week

Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: Predominately BA.5 and BA.4 sublineages

SARS-CoV-2 Variants Circulating in the United States, Sep 18 – Nov 26 (NOWCAST)



VOC Distribution in Michigan



- Since October 15, there have 1,987 VOC specimens sequenced
- 100% of specimens sequenced are Omicron
 - Since October 15, 87% of specimens sequenced and reported (n=1,736) have been identified as BA.5; of which 9.1% of those specimens are BF.7 (n=159), 5.1% have been identified as BQ.1 (n=89), and 6.4% as BQ.1.1 (n=111)

Over 6.1 Million Michiganders have completed the primary series – 62% of the total population

Vaccination Coverage

Over 6.1 million people in the state are fully vaccinated*
91.0% of people aged 65 and older have completed the primary series*
69.0% of total population have initiated the primary series*

Race/Ethnicity[†] for those 6 months and older:

- Initiation coverage is highest among those of Non-Hispanic (NH) Asian, Native Hawaiian or Pacific Islander Race (64.0%), then NH American Indian (56.3%), NH White (54.5%), NH Black or African American Races (43.5%).
- Initiation is at 61.2% for those of Hispanic ethnicity

Updated Booster Coverage

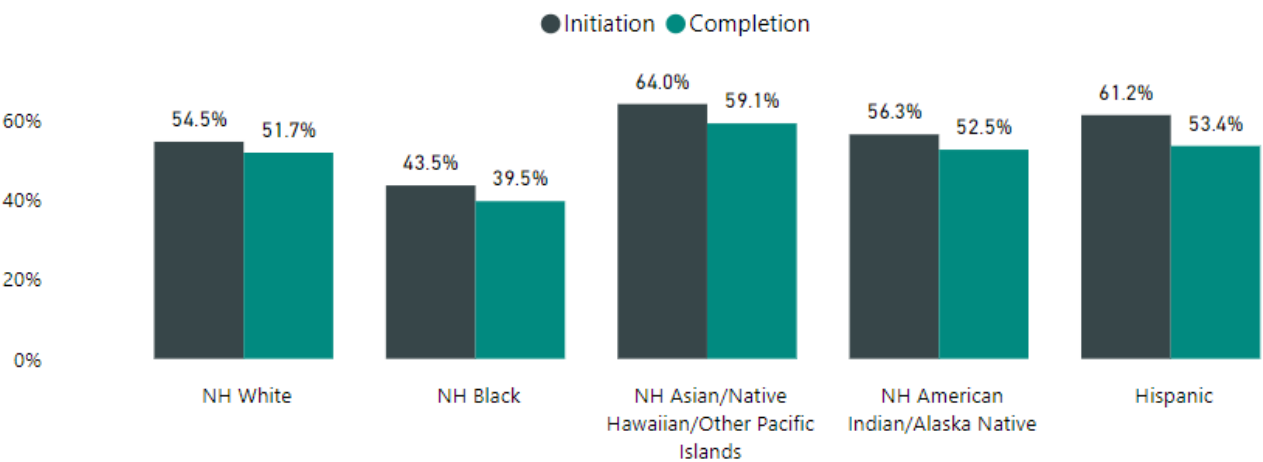
The percentage of Michiganders who have received the updated (bivalent) booster is higher than national percentages for all reported age groups
36.1% of the population 65 years of age or older has received an updated (bivalent) booster
13.7% of Michiganders ages 5 years and older have received their updated (bivalent) booster dose

Vaccination Coverage in Michigan as of 11/25/2022

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster**	U.S. % Boosted**	Primary Series Total
Total Population	69.0%	62.0%	NA	NA	6,190,377
≥ 5 years	72.9%	65.6%	13.7%	12.1%	6,178,884
≥ 12 years	76.9%	69.2%	14.9%	13.1%	5,946,861
≥ 18 years	79.1%	71.2%	15.9%	13.9%	5,580,638
≥ 65 years	95.0%	91.0%	36.1%	31.3%	1, 606,692

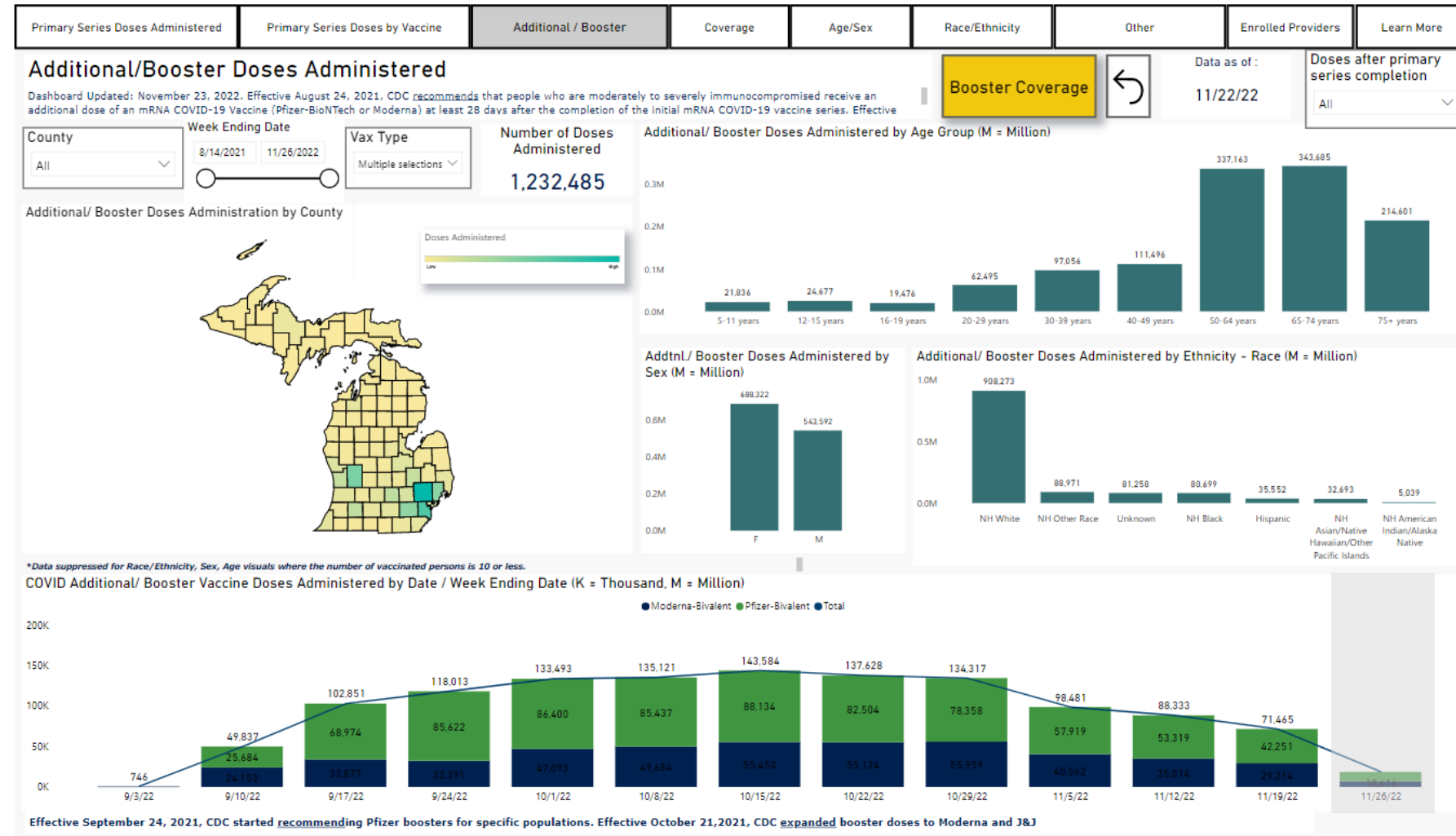
**This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

Coverage by Race*



Bivalent Administration

- FDA has authorized and CDC now recommends expanding the use of the updated bivalent COVID-19 vaccines to children ages 5 through 11 years.*
- As of 11/22[†], 1,232,485 Michiganders had received their bivalent booster
- Note: the data for the week ending 11/26 would have been incomplete on the date the dashboard was last refreshed (11/22) and underreport the true administration for the week



● Moderna Bivalent

● Pfizer Bivalent

* Pfizer-BioNTech is now expanded for children ages 5 through 11 years, and Moderna is expanded for children and adolescents ages 6 through 17 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](#)

Staying up to date with recommended COVID-19 vaccinations, including the bivalent booster, provides significant protection against SARS-CoV-2 infection

- Monovalent COVID-19 vaccines were less effective against symptomatic infection due to SARS-CoV-2 Omicron variant
- Updated bivalent boosters provided significant additional protection against symptomatic SARS-CoV-2 infection in those who had previously received monovalent vaccine doses
- All persons should stay up to date with recommended COVID-19 vaccinations, including bivalent booster doses for eligible persons
- Currently, 13.7% of those 5 and older have received their bivalent vaccine; and 36.1% of those over 65 years have received their bivalent booster

An updated (bivalent) COVID-19 booster provides *additional protection* against symptomatic COVID-19 illness*

COVID-19 VACCINE DRIVE-THRU

COVID-19 spread has increased during the last two winters; stay up to date with COVID-19 vaccination

* Among immunocompetent adults with COVID-19-like symptoms, the vaccination status of 121,687 adults with a positive COVID-19 test was compared to that of 238,939 adults with a negative COVID-19 test

bit.ly/mm7148e1
NOVEMBER 22, 2022

MMWR