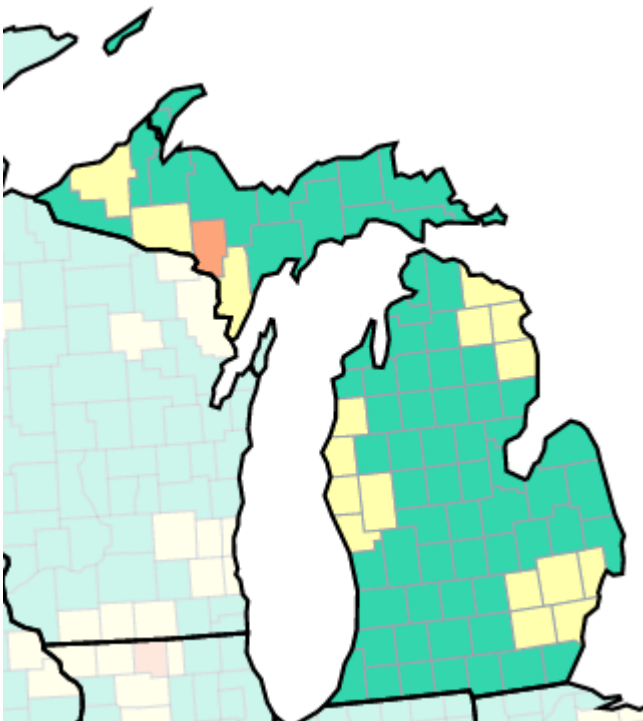




MI COVID RESPONSE DATA AND MODELING UPDATE

November 21, 2022

As of Nov 17, 1 Michigan County is at High COVID-19 Community Level



- In the US, 3% of counties have high risk for medically significant disease and healthcare strain
- In Michigan, 1% (1/83) of counties are at high risk. This represents less than 1% of the population
- 17 Michigan counties are currently at Medium level (20%). This represents 48% of the population
- 65 Michigan counties are currently at Low level (78%). This represents 51% of the population

Percent of Counties This Week

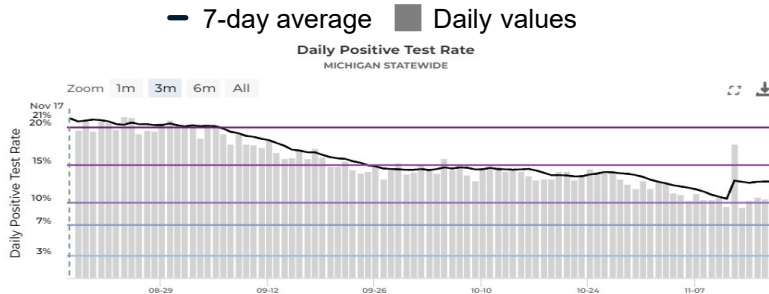
	United States	Michigan	Percent of MI Population
Low	80%	78%	51%
Medium	17%	20%	48%
High	3%	1%	<1%

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

Recent statewide trends are plateaued

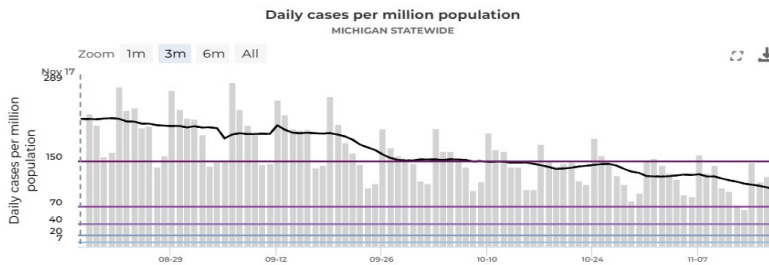
Statewide trends

Positivity, %



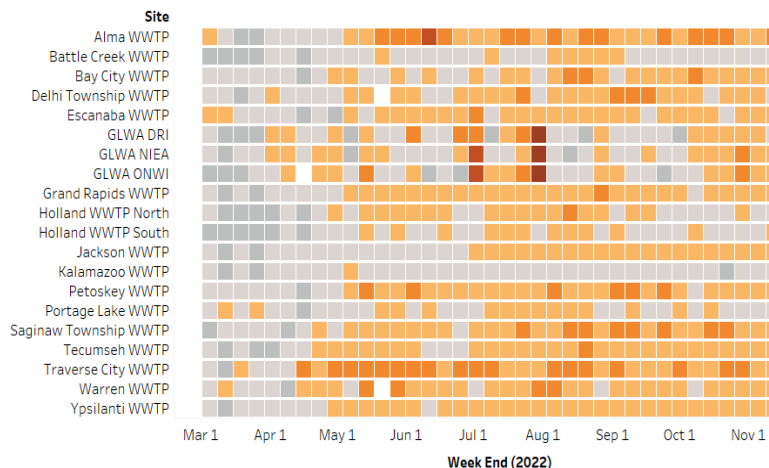
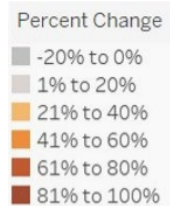
Current: 12.8%
Last Week: 11.4%

Daily cases per million



Current: 116.9
Last Week: 108.8

Wastewater



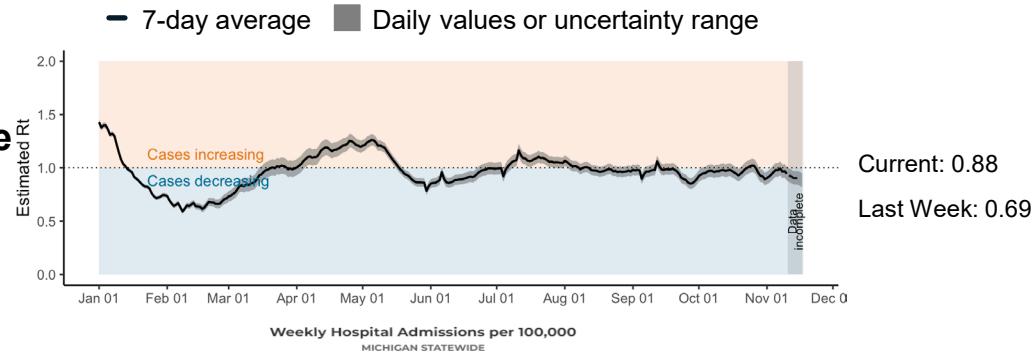
Current: 70% of sites are above 20% baseline threshold
Last Week: 80% of sites are above 20% baseline threshold

- The two core indicators, test percent positivity, and case rates, are steady over several weeks but slightly up over the past week
- 12 counties are currently showing increases in cases and an additional 13 reported an elevated incidence plateau in case rates (via mistartmap.info as of 11/18/22, data through 11/10/22)
- 70% (14/20) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week

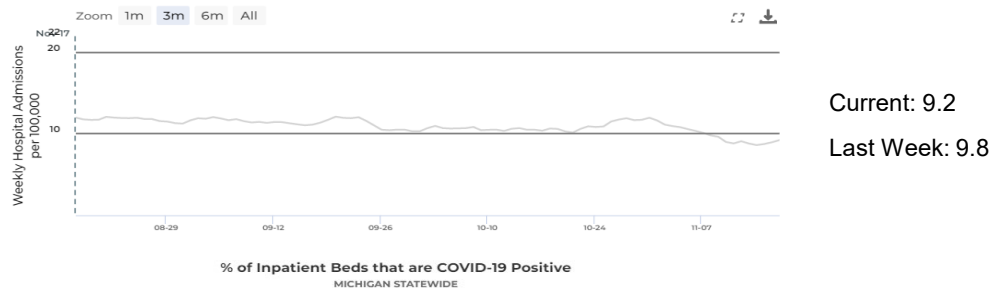
Recent statewide trends are plateaued

Statewide trends

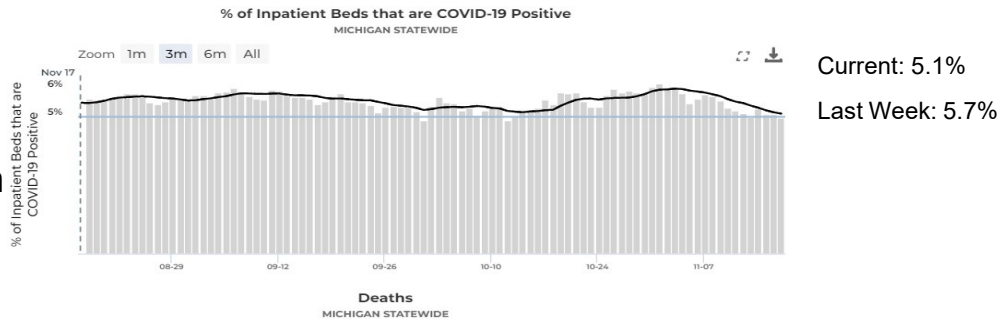
Reproductive Number, R_t



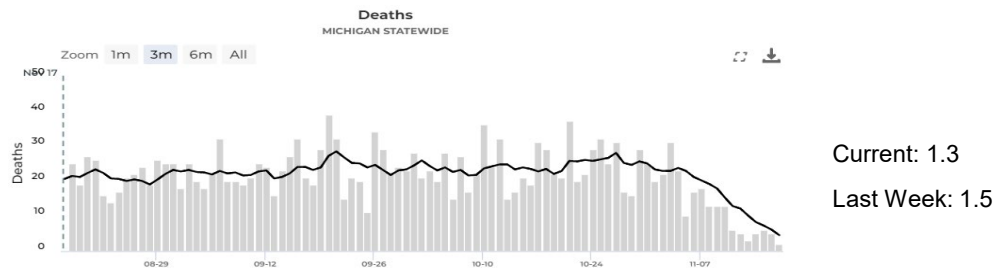
Hospital Admissions



Daily hospitalization rate, %



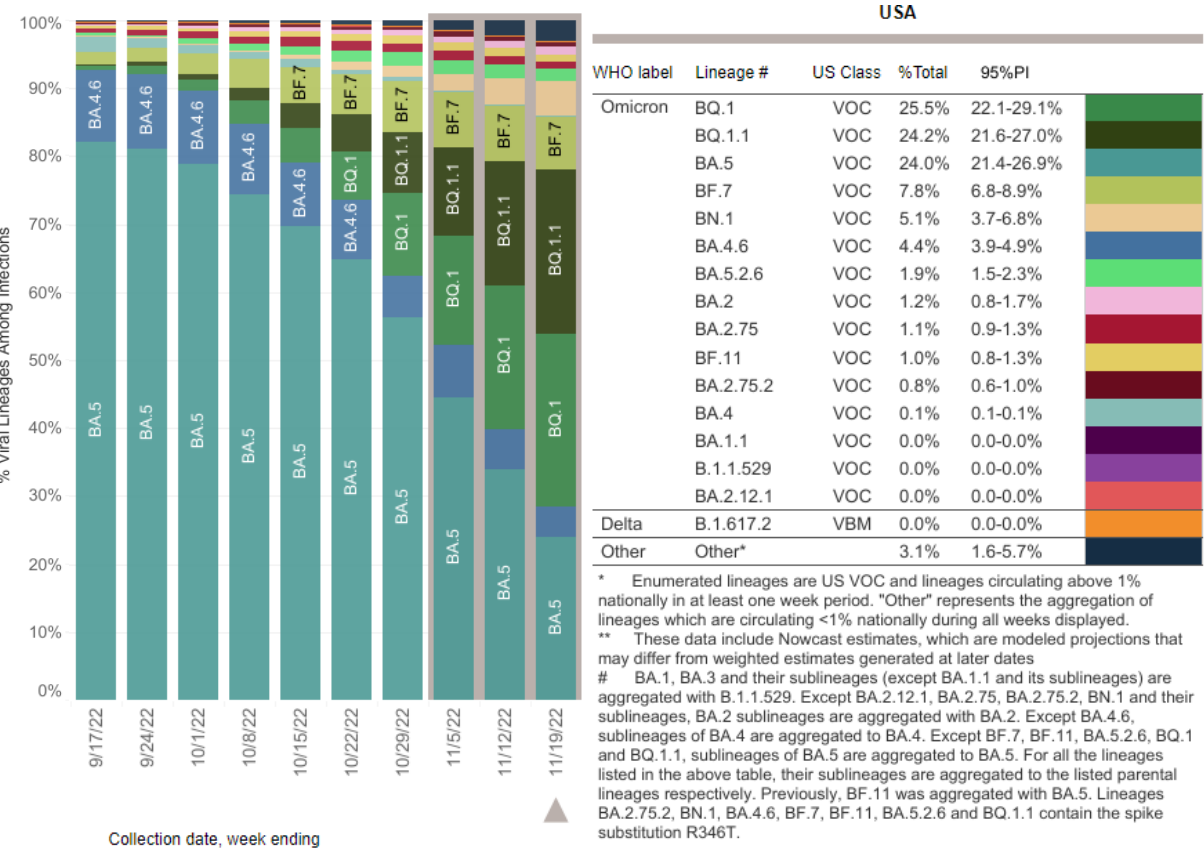
Deaths



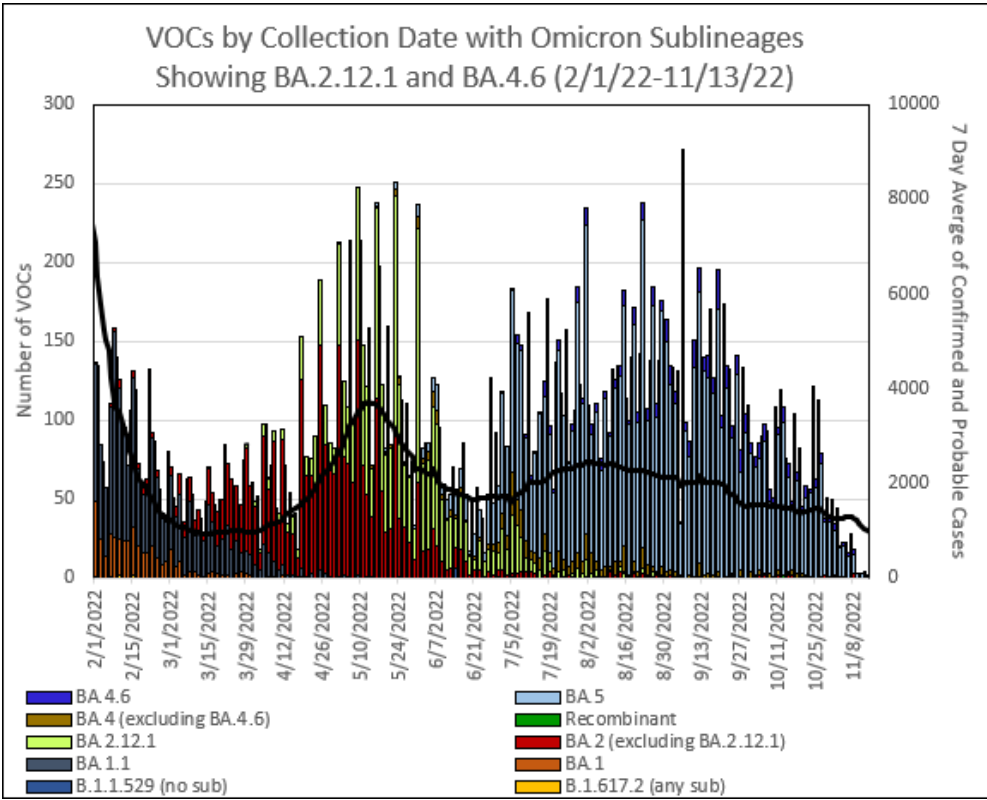
- The reproductive number (R_t) in Michigan is near 1 indicating that case trends are plateaued
- There are an average of 9.2 hospital admissions per 100,000 Michiganders day which is slightly lower than last week
- The percent of inpatient beds that have patients diagnosed with COVID-19 have seen a 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 11 – Nov 19 (NOWCAST)



VOC Distribution in Michigan



- Since October 15, there have 1,356 VOC specimens sequenced
- 100% of specimens sequenced are Omicron
 - Since October 15, 88% of specimens sequenced and reported (n=1,189) have been identified as BA.5; of which 9.7% of those specimens are BF.7 (n=115), 5.3% have been identified as BQ.1 (n=63), and 6.2% as BQ.1.1 (n=74)

Over 6.1 Million Michiganders have completed the primary series – 61.9% of the total population

Vaccination Coverage

Over 6.1 million people in the state are fully vaccinated*
90.9% 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 (63.9%), then NH American Indian (56.3%), NH White (54.5%), NH Black or African American Races (43.5%).
- Initiation is at 61.1% for those of Hispanic ethnicity

Updated Booster Coverage

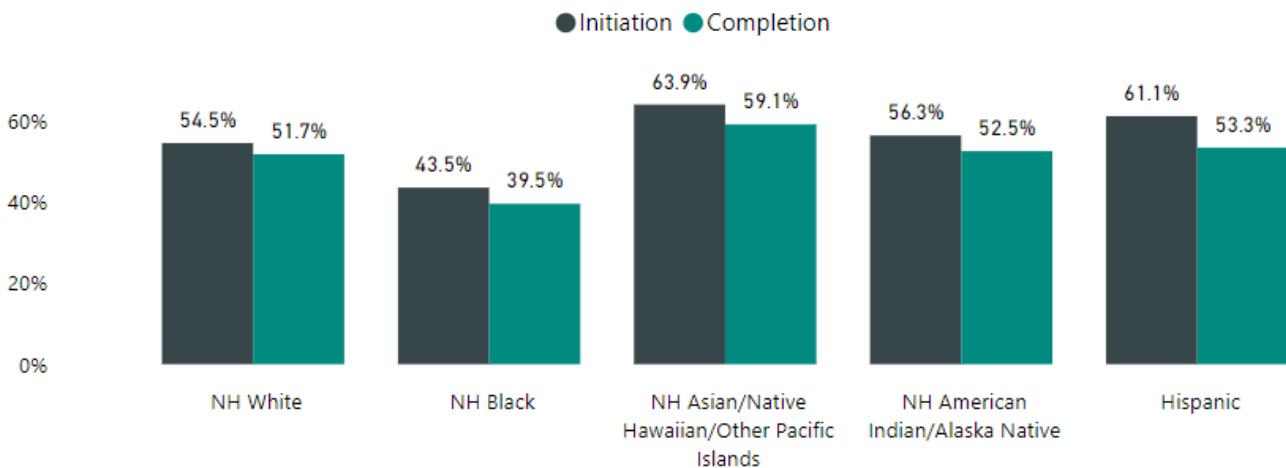
The percentage of Michiganders who have received the updated (bivalent) booster is higher than national percentages for all reported age groups
34.2% of the population 65 years of age or older has received an updated (bivalent) booster
12.9% of Michiganders ages 5 years and older have received their updated (bivalent) booster dose

Vaccination Coverage in Michigan as of 11/19/2022

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster**	U.S. % Boosted**	Primary Series Total
Total Population	69.0%	61.9%	NA	NA	6,184,888
≥ 5 years	72.9%	65.5%	12.9%	11.3%	6,173,940
≥ 12 years	76.8%	69.1%	13.9%	12.3%	5,942,399
≥ 18 years	79.0%	71.1%	14.9%	13.1%	5,576,436
≥ 65 years	95.0%	90.9%	34.2%	29.6%	1,605,399

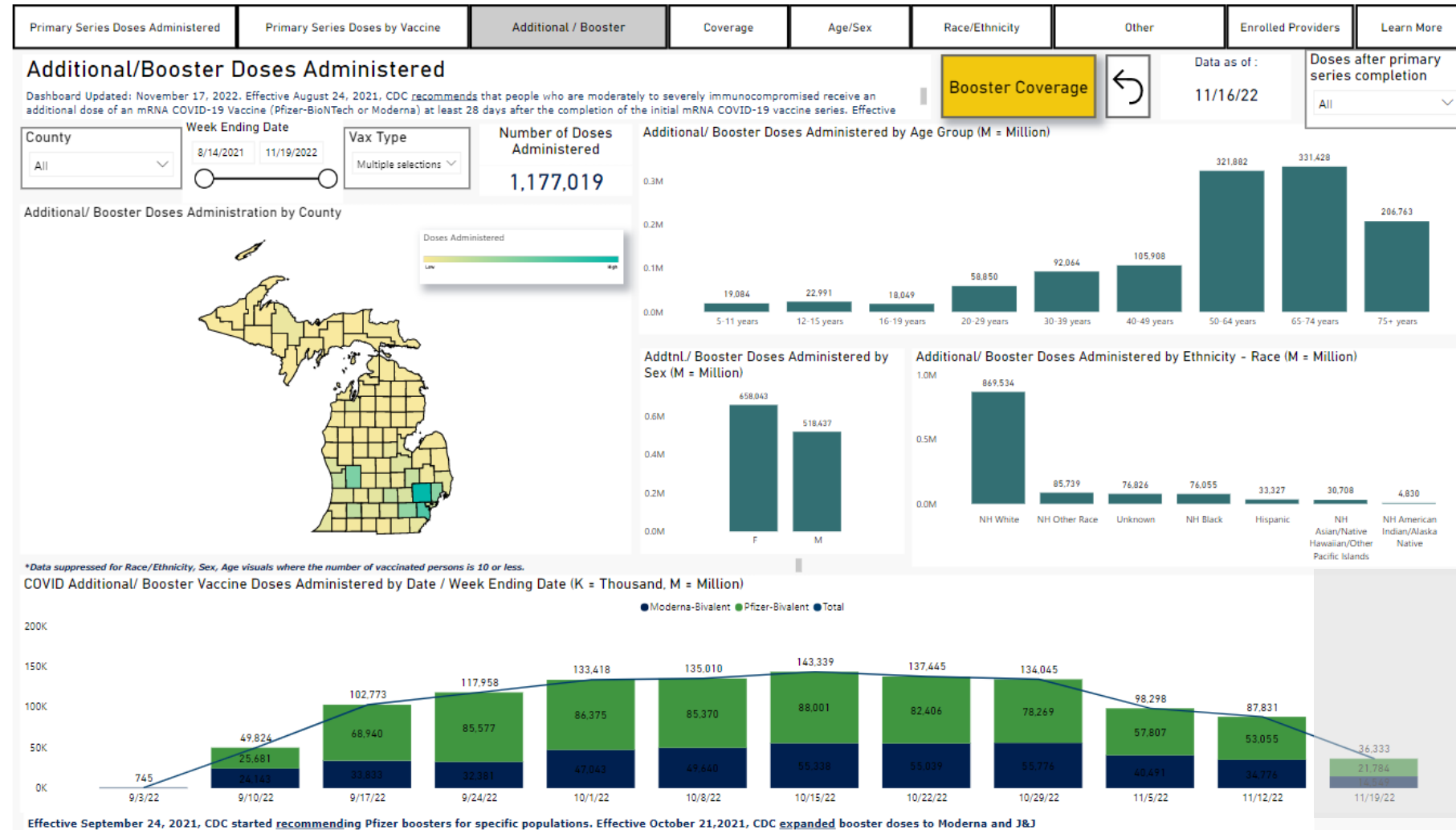
**This shows the percentage of all residents ages 5 years and older in a jurisdiction (state, territory, national) with an updated (bivalent) booster dose. Non-residents who received vaccine are attributed to their jurisdiction of residence.

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 11/16[†], 1,177,019 Michiganders had received their bivalent booster
- Note: the data for the week ending 11/19 would have been incomplete on the date the dashboard was last refreshed (11/16) 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](#)