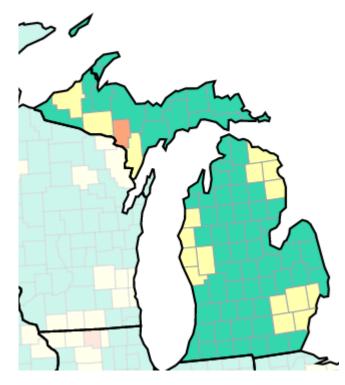
# MI COVID RESPONSE DATA AND MODELING UPDATE

November 21, 2022

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



### Percent of Counties This Week

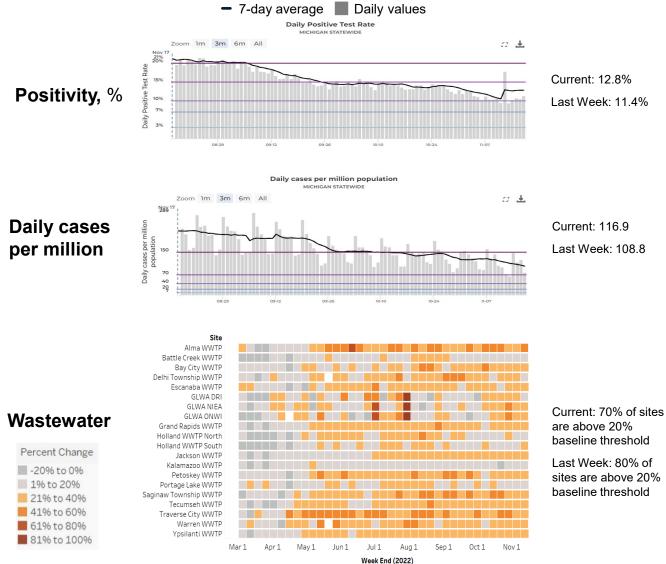
	United		Percent of MI
	States	Michigan	Population
Low	80%	78%	51%
Medium	17%	20%	48%
High	3%	1%	<1%

- 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

Low	Medium	High
<ul> <li>Stay <u>up to date</u> with COVID-19 vaccines</li> <li><u>Get tested</u> if you have symptoms</li> </ul>	<ul> <li>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</li> <li>Stay <u>up to date</u> with COVID-19 vaccines</li> <li><u>Get tested</u> if you have symptoms</li> </ul>	<ul> <li>Wear a <u>mask</u> indoors in public</li> <li>Stay <u>up to date</u> with COVID-19 vaccines</li> <li><u>Get tested</u> if you have symptoms</li> <li>Additional precautions may be needed for people <u>at high risk for severe illness</u></li> </ul>

## **Recent statewide trends are plateaued**

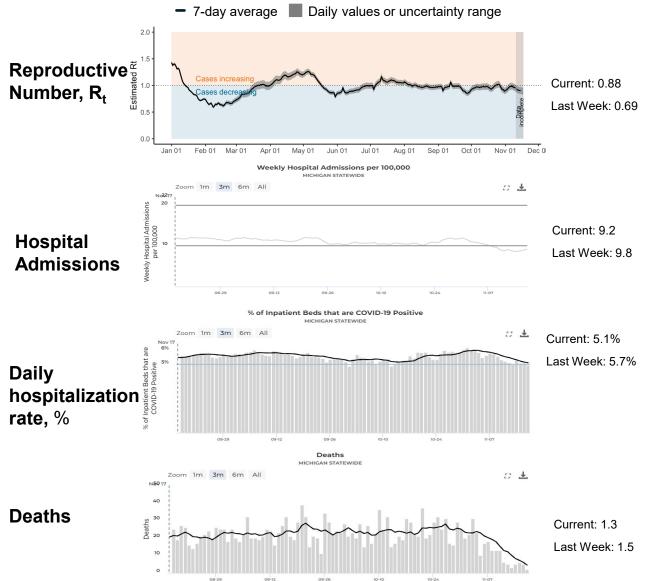
### Statewide trends



- 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



- The reproductive number (*R*<sub>t</sub>) 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 bur 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

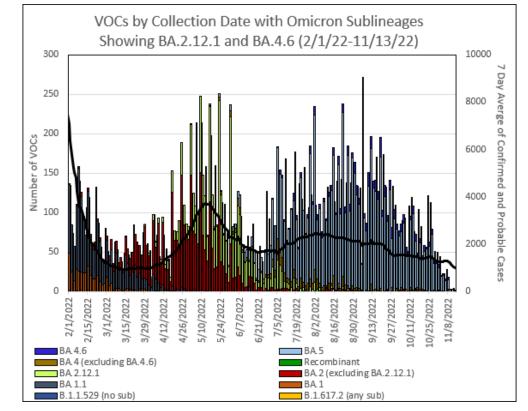
**SARS-CoV-2** Variants Circulating in the United States, Sep 11 – Nov 19 (NOWCAST)

100	0%																	
0.0	)%	G				BF.7	2				Ξ	WHO label	Lineage #	US Class	%Total	95%PI		
90	J 70	BA.4.6	BA.4.6	9		8	BF.7	BF.7	BF.7			Omicron	BQ.1	VOC	25.5%	22.1-29.1%		
		۵Ó	B	BA.4.6	9				Ш	BF.7	BF.7		BQ.1.1	VOC	24.2%	21.6-27.0%		
80	)%				BA.4.6	(0	BQ.1	BQ.1.1	-		8		BA.5	VOC	24.0%	21.4-26.9%		
						BA.4.6		ũ	BQ.1.1	<b>–</b>			BF.7	VOC	7.8%	6.8-8.9%		
70	)%-					ß	BA.4.6	BQ.1	ñ	BQ.1.1	<b>.</b>		BN.1	VOC	5.1%	3.7-6.8%		
VITAI LINeages Among Intections							BA	BC		ă	BQ. 1. 1		BA.4.6	VOC	4.4%	3.9-4.9%		
lied									BQ.1		ĕ		BA.5.2.6	VOC	1.9%	1.5-2.3%		
⊨ 60 ຼີຄ	)%								B				BA.2	VOC	1.2%	0.8-1.7%		
										<b>—</b>			BA.2.75	VOC	1.1%	0.9-1.3%		
⊈ vs 50	)%									BQ.1			BF.11	VOC	1.0%	0.8-1.3%		
cage													BA.2.75.2	VOC	0.8%	0.6-1.0%		
	)%	BA.5	BA.5	BA.5							BQ.1		BA.4	VOC	0.1%	0.1-0.1%		
	J 70	-	Ω.	B	BA.5	ы С					•		BA.1.1	VOC	0.0%	0.0-0.0%		
^ %					-	BA.5	BA.5						B.1.1.529	VOC	0.0%	0.0-0.0%		
30	)%							BA.5					BA.2.12.1	VOC	0.0%	0.0-0.0%		
								сú	LC,			Delta	B.1.617.2	VBM	0.0%	0.0-0.0%		
20	)%-								BA.5			Other	Other*		3.1%	1.6-5.7%		
10	)% )%									BA.5	BA.5	nationally ir lineages wh ** These may differ fr # BA.1,	at least one we nich are circulati data include No rom weighted es BA.3 and their s	eek period. "( ng <1% natio wcast estima stimates gen ublineages (	Other" rep onally duri ates, which erated at except B/	A.1.1 and its subli	egation of played. rojections that neages) are	
		9/17/22	9/24/22	10/1/22	10/8/22	10/15/22	10/22/22	10/29/22	11/5/22	11/12/22	11/19/22	aggregated with B.1.1.529. Except BA.2.12.1, BA.2.75, BA.2.75.2, BN.1 and their sublineages, BA.2 sublineages are aggregated with BA.2. 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. For all the lineages listed in the above table, their sublineages are aggregated to the listed parental lineages respectively. Previously, BF.11 was aggregated with BA.5. Lineages						

substitution R346T

Collection date, week ending

**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)

Data last updated Nov 22, 2022

Source: CDC COVID Data Tracker: Genomic Surveillance and Michigan's MDSS; sequence data may take up to four weeks to process and get reported back to health departments

BA.2.75.2, BN.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the spike

## Over 6.1 Million Michiganders have completed the primary series – 61.9% of the total population Vaccination Coverage in Michigan as of 11/19/2022

### 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<sup>¶</sup> 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

Age Group	% At Least One Dose	% Completed Primary Series	% Updated Booster <sup>**</sup>	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.

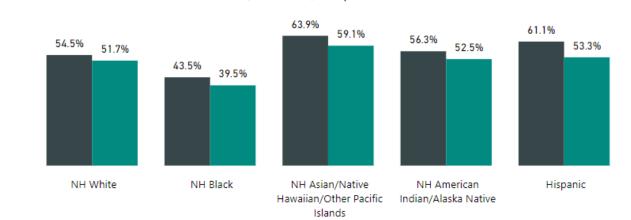
#### Coverage by Race\*

60%

40%

20%

0%



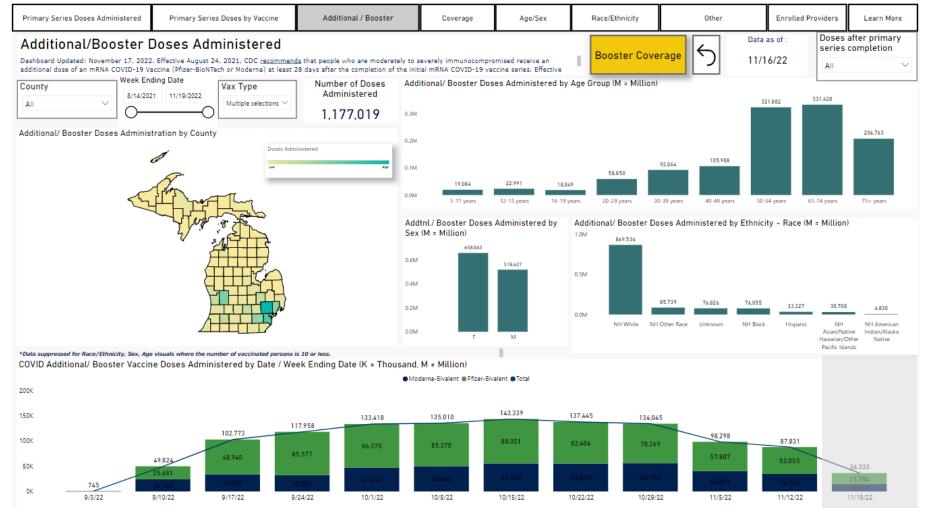
### Initiation Completion

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

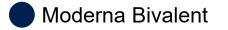
Note: Now include all those 6 months and older in calculations

## **Bivalent Administration**

- FDA has authorized and CDC now recommends expanding the use of the updated bivalent COVID-19 vaccines to children ages 5 through 11 years.\*
- As of 11/16<sup>¶</sup>, 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



Effective September 24, 2021, CDC started recommending Pfizer boosters for specific populations. Effective October 21, 2021, CDC expanded booster doses to Moderna and J&J





\* 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 7 Sources: Michigan Coronavirus Vaccine Dashboard