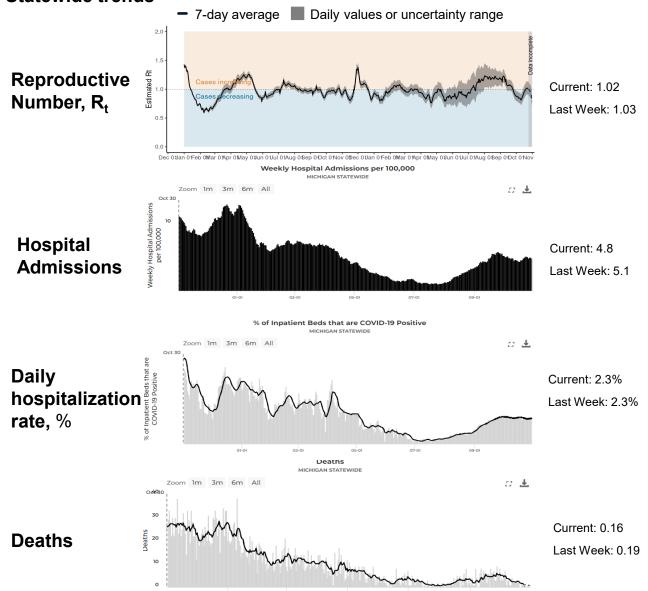
# MI COVID RESPONSE DATA AND MODELING UPDATE

November 7, 2023

## **Recent statewide trends show COVID is plateaued**

#### Statewide trends



- The reproductive number  $(R_t)$  in Michigan is near 1 indicating cases are plateaued.
- There has been a daily average of 4.8 hospital admissions per 100,000 Michiganders. This is a slight decrease from last week.
- The percent of inpatient beds with COVID-19 positive patients (2.3%) are similar to last week. Current hospitalization indicators remain below what was reported at this time last year.

• Deaths are a lagging indicator but remain similar to rates from last week.

Source: https://mistartmap.info/; MiStartMap data did not update this week due to ending of PHE; data feeds will resume shortly

#### **Recent statewide trends show COVID is plateaued**

Current: 60% of sites

are above 20%

baseline threshold

Last Week: 40% of

baseline threshold

Current: 44.7

Current: 1.0%

Current: 1.6% Last Week: 1.7%

Nov 1, 23

Last Week: 0.9%

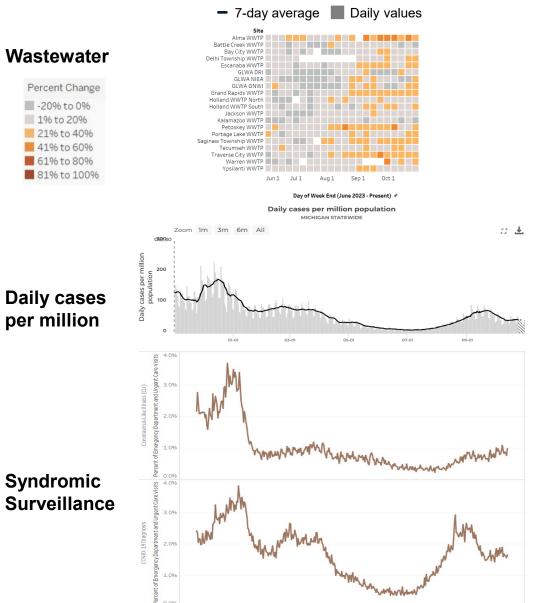
**COVID-19** Diagnosis

Last Week: 45.1

Coronavirus-Like-Illness (CLI)

sites are above 20%

#### Statewide trends



Nov 1, 22

Jan 1, 23

 60% (12/20) of wastewater sentinel sites have reported levels that are 20% or higher than baseline threshold levels this week.

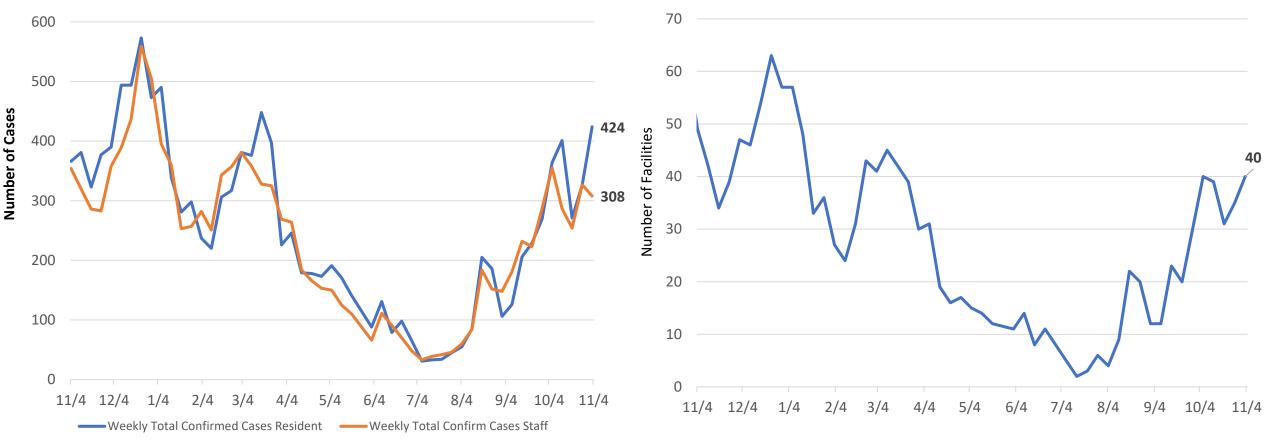
• Reported case rates are plateaued compared to last week.

 COVID-19 diagnoses in emergency departments and urgent cares are plateaued compared to last week.
 Current COVID-19 syndromic indicators remain below what was reported at this time last year.

## **COVID-19 Cases Among Staff and Residents in Long Term Care Facilities**

State of Michigan Weekly Total Confirmed COVID-19 Cases in SNF Residents and Staff 11/4/2022 to 11/03/2023

Number of SNFs with 3 or more Confirmed Cases 11/4/2022 to 11/03/2023



- Case counts increased in SNF residents (326 to 424) but decreased in SNF staff (327 to 308) since last week [left graphic]
- The number of SNF facilities reporting 3 or more increased compared to last week (35 to 40) [right graphic]

Abbreviations: AFC: Adult Foster Care; HFAs: Homes for the Aged; and SNF: Skilled Nursing Facilities

Update through October 30, 2023

Note: The data are from weekly reporting by facilities with bed occupancy of at least 13 beds. Source: Data is now provided through NHSN, data prior to May 19 was from Michigan EM Resource

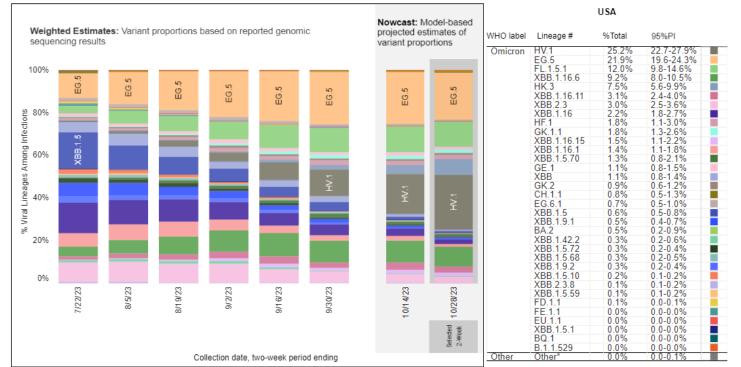
## Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan: Omicron lineages continue to evolve; all competing for predominance

#### SARS-CoV-2 Variants Circulating in the United States, Jul 9 – Oct 28 (NOWCAST)

Weighted and Nowcast Estimates in United States for 2-Week Periods in 7/9/2023 – 10/28/2023

Nowcast Estimates in United States for 10/15/2023 – 10/28/2023

A Hover over (or tap in mobile) any lineage of interest to see the amount of uncertainty in that lineage's estimate.



Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one 2-week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all 2-week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all 2-week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all 2-week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all 2-week period. "Other" represents the aggregation of lineages which are aggregated to lineages (accept BA 4.1.1 and IB sublineages) are aggregated to with BA.2.75, XBB and their sublineages of BA.5 are aggregated to BA.5 are aggregated to BA.4 are aggregated to BA.4 are aggregated to BA.4 are aggregated to BA.4 are aggregated to BA.5 are aggregated to BA.5 are aggregated to XBB.15.1 xBB.15.1

National Distribution

- 100% of the VOCs currently circulating in the U.S. are Omicron
- Nowcast estimates project that HV.1 (25.2%, 95% P.I. 22.7-27.9%) is the most prevalent, while EG.5 comprise of approximately 21.9% of infections (95% P.I. 19.6-24.3%), and FL.1.5.1 comprise of approximately 12.0% of infections (95% P.I. 9.8-14.6%), while all other lineages are estimated to comprise of less than 10% during the week ending on October 28.

#### Distribution in Michigan

- Since September 1, there have been 381 VOC specimens sequenced and reported to MDHHS
- 100% of specimens sequenced are Omicron
  - Since September 1, a majority of specimens sequenced and reported have been identified as XBB or one of the child lineages; currently 26.5% of specimens have been identified as EG.5, the highest of any of the XBB lineages in Michigan

## National Surveillance for Respiratory Diseases: Important to Remain Vigilant

## National Emergency Department Visits for COVID-19, Influenza and RSV\* (top graphic)

The most recent number of national ED visits for all three respiratory illnesses combined are increasing from the previous week

The current number of ED visits for all three respiratory illness combined is higher that what we saw during the summer but lower than this time last year (October 2022)

For most of 2023, COVID-19 has contributed to the majority of ED visits compared to influenza and RSV; however, the past week has seen COVID consisting of around 55% of ED visits for these three respiratory illnesses (down from 60%)

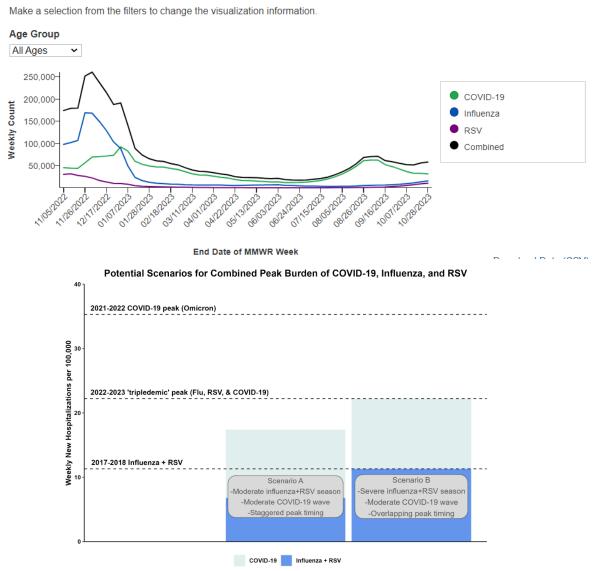
#### **Respiratory Disease Season Outlook<sup>¶</sup> (bottom graphic)**

This season is likely to bring a moderate COVID-19 wave, causing around as many hospitalizations at the peak as occurred at last winter's peak

However, the total number of hospitalizations due to all three pathogens this year is expected to be higher than what was experienced prior to the pandemic with only influenza and RSV (example shown in the lowest dashed line)

Two hypothetical scenarios for peak hospital burden from these three respiratory illnesses illustrate how the additional burden of a moderate COVID-19 wave during a moderate respiratory disease season (left bar) or a severe influenza/RSV season (right bar) may strain hospital capacity

#### Weekly Emergency Department Visits by Age Group



#### Vaccination Coverage Against COVID-19 is Low

Vaccination continues to remain the best way to protect yourself and your loved ones against serious outcomes from COVID-19

Federal requirements no longer mandate vaccination reporting to state (i.e., MDHHS) and national entities; therefore, vaccine coverage reported here is likely underestimated

#### Vaccination Coverage with 2022-2023 Bivalent Booster Formulation (upper right graphic)

The percentage of all Michiganders who are up to date with their COVID-19 vaccines is 18.6%

47.5% of the population 65 years of age or older are up to date with their COVID-19 vaccines

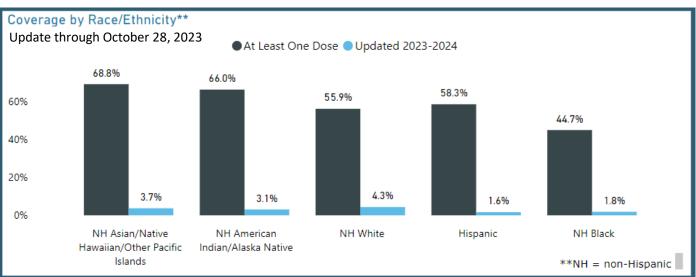
## Race/Ethnicity<sup>¶</sup> for those 6 months and older with 2023-2024 Vaccine Formulation (lower right)

- Up-to-date coverage is highest among Non-Hispanic (NH) White (4.3%), followed by NH Asian, Native Hawaiian or Pacific Islander Race (3.7%), NH American Indian (3.1%), and NH Black or African American races (1.8%).
- Up-to-date coverage is at 1.6% for Hispanics

Percent Who Are Up to Date
0 - 9.9%
10.0 - 14.9%
15.0 - 19.9%
20.0 - 24.9%
20.0 - 24.9%
25.0% +

Administrations through September 12, 2023

\*This shows the percentage of all residents of all ages



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



## **Fall and Winter Virus Season**

Stop the spread of viruses by washing hands, covering coughs and sneezes, and staying home if feeling unwell.

	VACCINES	PROTECTIVE ANTIBODIES	TESTING	THERAPEUTICS
	Available for ages 6 months and up.	N/A	Available in clinical settings.	Available.
COVID-19	Available for ages 6 months and up.	N/A	At-home tests or tests in clinical settings.*	Available.
RSV	Available for ages 60 years and up or for pregnant people.	Available for infants.	Recommended for certain high-risk groups.	Limited; only for certain high-risk groups.

Speak to your health care provider or visit Michigan.gov/COVIDFluRSV for more information. \*Order free at-home tests at COVIDTests.org.



## **Fall 2023 Vaccines**

	WHAT ARE THE OPTIONS?	WHO IS ELIGIBLE?	HOW WELL DO THEY WORK?	WHEN SHOULD I GET IT?
	Vaccine targets four strains of seasonal flu.	6 months and older.	Reduces the risk of going to the doctor by 53%.	October is ideal, as protection wanes over a season.
COVID-19	Updated vaccine targets XBB, an omicron variant. <i>Multiple options</i> <i>available</i> .	6 months and older.	Last fall, the COVID-19 vaccine provided 40-60% effectiveness against severe disease.	Protection against severe disease: Get now. Recently infected? Consider delaying the vaccine for three months from symptom onset or positive test based on personal risk.
RSV	Multiple options available.	60 years and older. Pregnant people.	82-86% efficacy against severe disease.	Now, based on consultation with health care provider. Approved for pregnant people 32-36 weeks gestation.
RSV PROTECTIVE ANTIBODY	Note: This is not a vaccine, but a proactive medication that provides antibodies.	All infants younger than 8 months and high-risk infants 8-19 months.	Reduces risk of hospitalizations and health care visits by approximately 80%.	Will be available soon. Protection lasts at least 5 months.