MI COVID RESPONSE DATA AND MODELING UPDATE

May 17, 2022

Epidemiologic Surveillance: Key Messages

Global Trends slowing; National trends show continued spread of Omicron BA.2 lineage

- Many countries in Europe showing continued signs of decline
- U.S. cases increasing at a faster rate than previous weeks

As of May 12th, 53% of Michigan Counties at Medium or High COVID-19 Community Levels

- 50% of Michigan residents reside in a county (16 counties) classified as High according to CDC's Community Levels.
- 28 Michigan counties are currently at Medium level (34%). This represents 31% of the population.

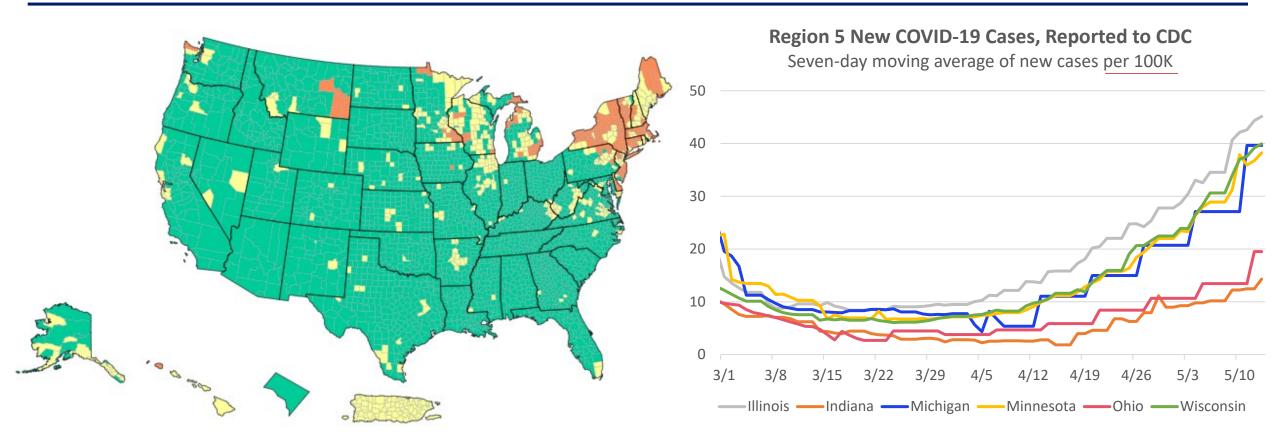
Case rates in Michigan are increasing, with increases occurring more in the Southeast Michigan

- The proportion of BA.2 in the U.S. and Michigan continues to rise
- 65% of SWEEP sites saw an increase in the most recent week and another 15% of sites saw a plateau in trends
- Case trends are increasing for all MERC regions, age groups, and most reported races and ethnicities
- 7-day avg. death rate is no longer decreasing for 80+ population and the proportion of deaths under 60 has decreased incrementally over the last 3 weeks (currently 14.2%)

Hospitalization Metrics in Michigan showing increases

- Hospital admissions (+34%) and COVID+ hospital census (+31%) are increasing at an accelerated rate. Overall census is now
 greater than 1,000 patients.
- The census of COVID+ patients in the ICU has increased by 22% from last week. This increase appears to be driven by increases in Region 2N.

National trends show continued spread of Omicron BA.2 lineage



Globally, 521,545,925 cases and 6,264,120 deaths (Data* through 5/16/2022)

• Case rates appear to be declining or plateauing in many European countries following second Omicron wave

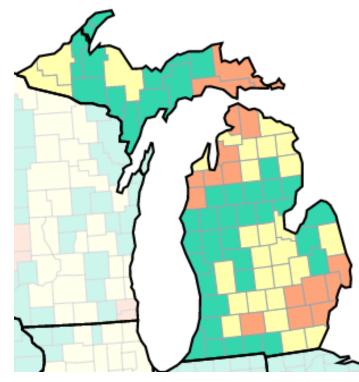
United States: Reported cases (7-day average) have increased over 27.6% since the prior week[¶]

In the U.S., the case rate is 185 cases/100,000 in last 7 days (last week: 145 cases per/100,000)

Region 5 (Midwest) states are increasing

Illinois and Wisconsin have the highest case rates *in Region 5* (5/13)

As of May 12th, 16 Michigan Counties at High COVID-19 Community Level



Percent of Counties

	United	Percent of MI		
	States	Michigan	Population	
Low	82%	47%	19%	
Medium	14%	34%	31%	
High	4%	19%	50%	

- In the US, 4% of counties have high risk for medically significant disease and healthcare strain; in Michigan, 19% of counties are at high risk
- 50% of Michigan residents reside in a county with a High COVID-19 Community Level
- All counties that are categorized as High have case rates that are greater than 200 per 100,000 and the HSA COVID hospital admissions per 100k is above 10.
- 28 Michigan counties are currently at Medium level (34%). This represents 31% of the population.

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

Mask requirements return in some schools and businesses in counties with High COVID-19 Community Levels; local health recommends prevention

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'All staff and students' back to masks at East Lansing Public Schools

Ann Arbor

COVID-19



Live

Weather

Classes canceled, masks reinstated at Ann Arbor school after COVID-19 uptick

Moneysaver

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Updated: May. 09, 2022, 9:41 p.m. | Published: May. 09, 2022, 1:33 p.m.

Contests

Ferndale Public Schools reinstates mask mandate as COVID-19 rates climb in Michigan

Email

Sports

By Jack Nissen | Published May 16, 2022 7:04AM | Ferndale | FOX 2 Detroit



CHIPPEWA COUNTY HEALTH DEPARTMENT

FOX 2

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MEDIA RELEASE Date: May 16, 2022

CHIPPEWA COUNTY MOVES INTO HIGH-RISK CATEGORY FOR COVID-19 TRANSMISSION

CHIPPEWA County, Michigan – The Chippewa County Health Department (CCHD) strongly recommends that secure, high filtration face masks be worn indoors in public settings when in close proximity to others. This recommendation is made in accordance with the Centers for Disease Control as an effort to prevent the continued spread of Covid-19. Within the past two weeks, the case count within Chippewa County has increased by more than 100; this increase has led Chippewa County to be categorized as a high-risk area for transmission and infection, according to the Michigan Department of Health and Human Services.

May 15, 2022 11:07 AM EDT Last Updated a day ago

Detroit Three automakers

reinstate mask mandate at some Michigan facilities

By David Shepardson

Oakland County now at high COVID-19 Transmission:

Autos & Transportation

Precautions Recommended

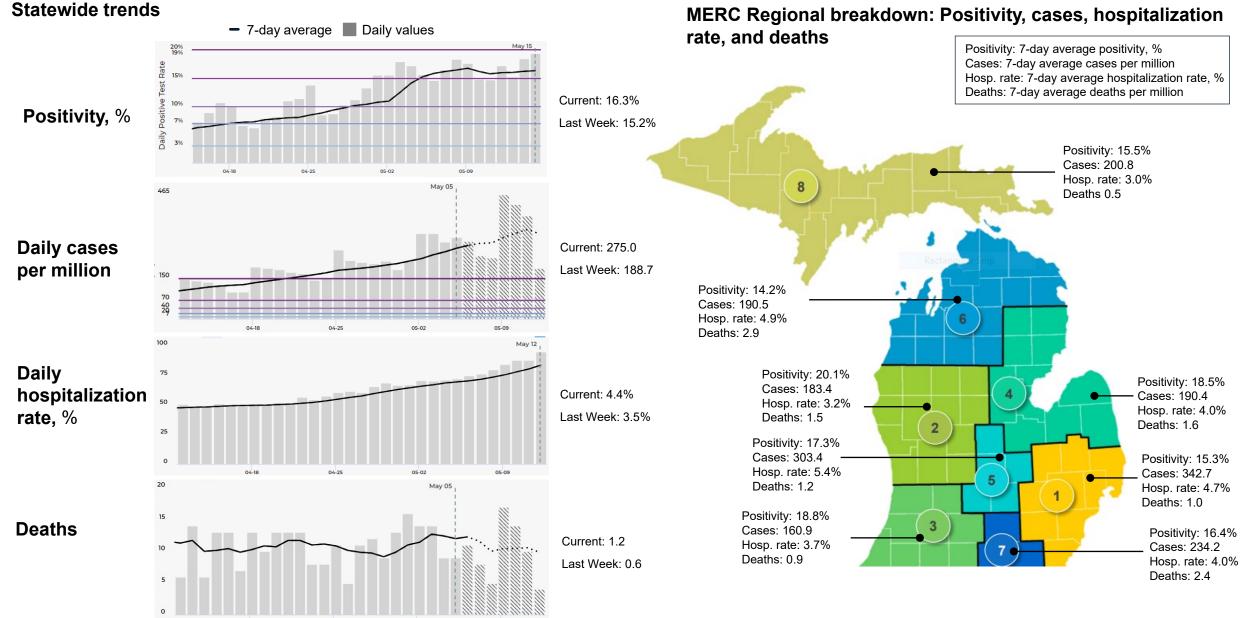
Oakland County is now at a high community COVID-19 transmission level according to the Centers for Disease Control and Prevention (CDC) and experiencing an increase in cases overall.

The seven-day average of daily cases in Oakland County was <u>562 cases per day</u> as of May 12, 2022. The seven-day percent positivity rate for COVID-19 tests is now 19.8 percent.

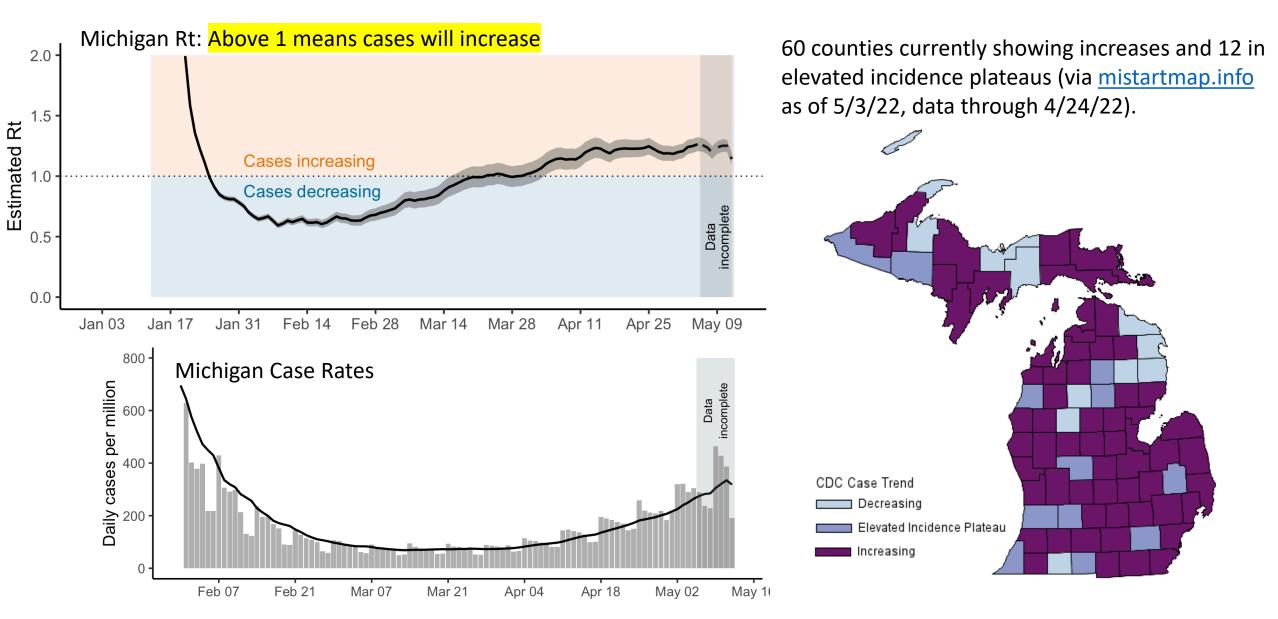
The Health Division reminds residents, organizations, and worksites of the following prevention steps recommended by CDC during high COVID-19 community levels:

- Stay up to date with COVID-19 vaccines. Visit <u>oaklandcountyvaccine.com</u> for Health Division vaccine locations.
- <u>Get tested</u> if you have symptoms or are exposed to someone with COVID-19.
- Isolate and quarantine if needed.
- Wear a mask indoors in public.
- If you test positive for COVID-19, talk to your doctor about whether you meet eligibility criteria and should get <u>antibody or antiviral treatment</u>.

Recent statewide trends increasing



Case rates in Michigan are increasing

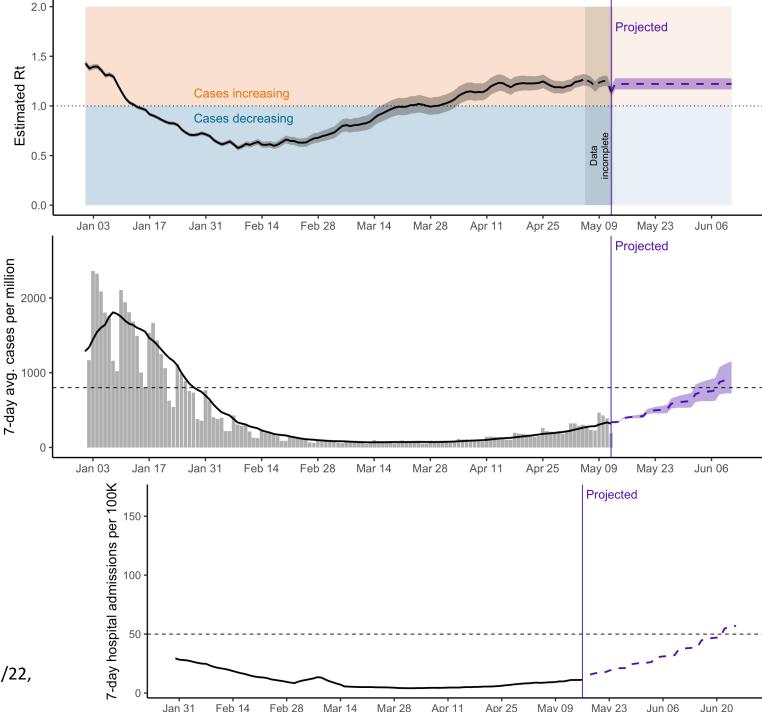


Sources: MDSS cases plotted by onset date as of 5/13/22.

If current trends continue, Michigan will likely reach 800 cases/million by early June

- Projections assume constant Rt based on last two weeks
- Leads to continuing increases in cases & hospitalizations
- Reach 800 daily cases/million and 50 weekly hospital admissions per 100K by early June

Sources: MDSS case data by onset date (when available) as of 5/13/22, EM Resource hospital admissions data as of 5/16/22.

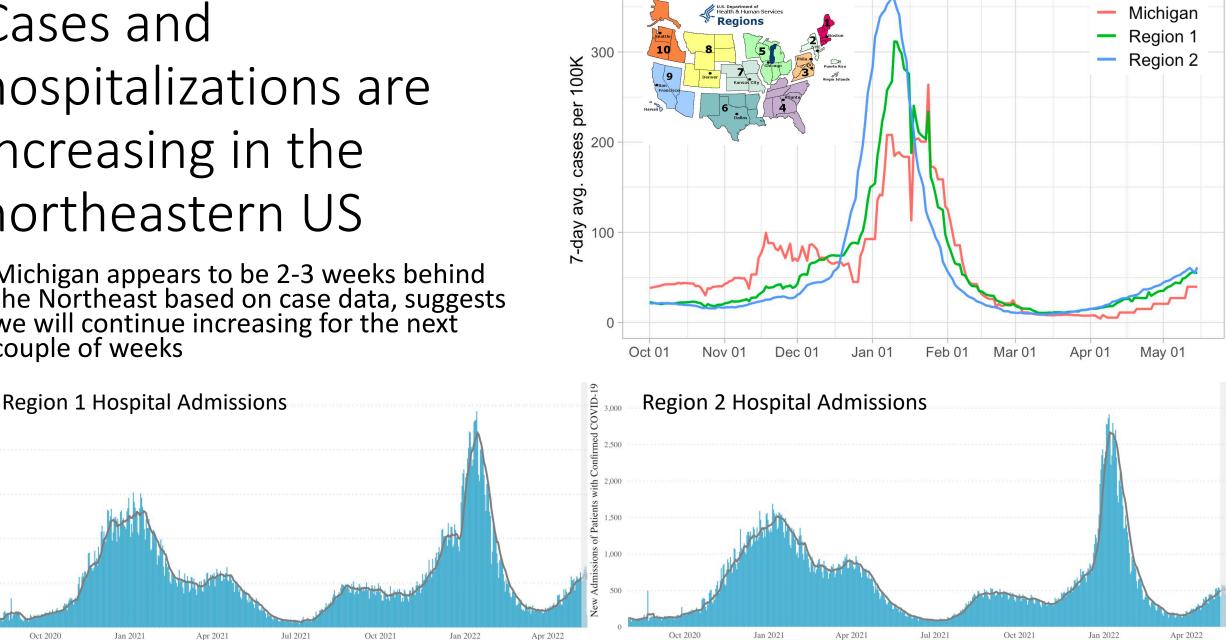


Cases and hospitalizations are increasing in the northeastern US

Michigan appears to be 2-3 weeks behind the Northeast based on case data, suggests we will continue increasing for the next couple of weeks

Oct 2020

Jan 2021



Sources: CDC data on cases per 100K by submission date for Region 1, Region 2, and Michigan, CDC daily hospital admissions data for Regions 1 and 2.



Emerging Variant Update

- Delta (B.1.617.2 and AY lineages) was downgraded to Variant being Monitored on April 14, 2022, due to significant and sustained reduction in its national and regional proportions over time, or other evidence indicates that a variant does not pose significant risk to public health in the United States
- Omicron continues to be the predominant variant of concern, including all its sublineages
 - There are several sublineages of this variant, including BA.4, BA.5, BA.2.12.1, and several recombinants of BA.1 and BA.2, most notable the XE recombinant
- Most of these sublineages are just a small fraction of specimens sequenced internationally and nationally
 - Here in the U.S., BA.2 remains the most predominant but the proportion of BA.2.12.1 is increasing faster than other lineages
- In the UK, XE appears to have a slight growth advantage over BA.2 in the UK but is still less than 1% of cases
- BA.2.12.1 is the most common circulating strain in Northeastern U.S., where cases are on the rise
- Globally, BA.4 and BA.5 have only been identified in a handful of countries with around 200 specimens sequenced
 - To date, there does not appear to be an increase in transmissibility, change in hospital epidemiology, or additional evasion of current counter measures compared to predominant Omicron variant

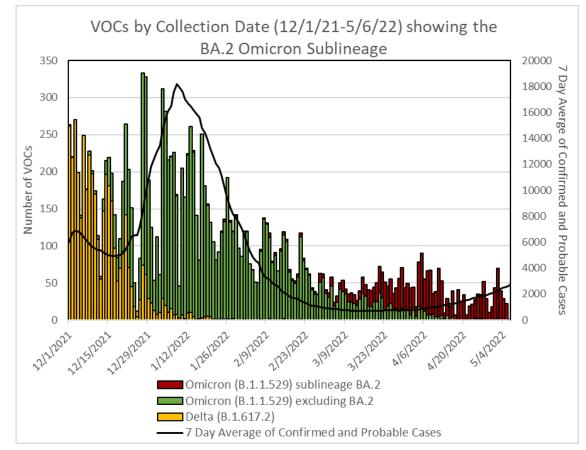
Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan

SARS-CoV-2 Variants Circulating in the United States, Apr 16 – May 14 (NOWCAST)

							U	ISA		
					WHO label	Lineage #	US Class	%Total	95%PI	
					Omicron	BA.2	VOC	50.9%	44.9-56.9%	
		2	BA.2	BA.2		BA.2.12.1	VOC	47.5%	41.5-53.5%	
BA.2	BA.2	BA.2				B.1.1.529	VOC	1.2%	0.6-2.2%	
						BA.1.1	VOC	0.3%	0.2-0.4%	
					Delta	B.1.617.2	VBM	0.0%	0.0-0.0%	
			2.1	BA.2.12.1	Other	Other*		0.2%	0.1-0.3%	
12.1	.2.12.1	BA.2.12.1	BA.2.12.1	BA	nationally in	at least one w	eek period. "(Other" rep	ges circulating ab presents the aggre	egation of

nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.
 ** These data include Nowcast estimates, which are modeled projections that may differ from weighted estimates generated at later dates
 # AY.1-AY.133 and their sublineages are aggregated with B.1.617.2. BA.1, BA.3, BA.4, BA.5 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. For regional data, BA.1.1 and its sublineages are also aggregated with B.1.1.529, as they currently cannot be reliably called in each region. Except BA.2.12.1 and its sublineages, BA.2 sublineages are aggregated

VOC Distribution in Michigan



- Since April 1, there have 1,317 VOC specimens sequenced
- 99.9% of specimens sequenced are Omicron

4/16/22

4/23/22

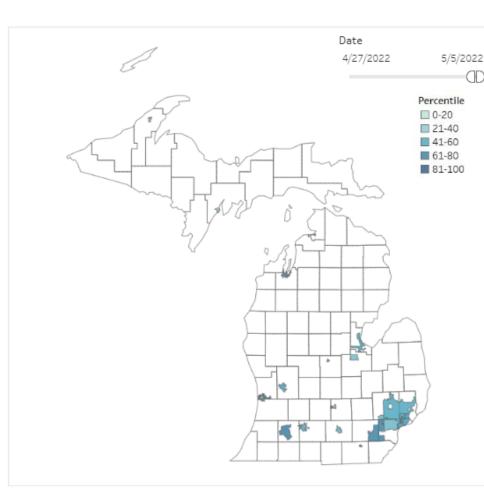
4/30/22

5/7/22

5/14/22

Michigan COVID-19 SWEEP Sentinel Wastewater Dashboard

The map below shows 20 sewershed sites in Michigan where wastewater is being monitored for the presence of SARS-CoV-2, the virus that causes COVID-19. These sentinel sites serve as a subset of wastewater surveillance in Michigan distributed across the Michigan Economic Recovery Council (MERC) Regions. Click on each site on the map to see wastewater and clinical case data over time. In the top right corner of the map, slide the white buttons to select the time period for which the site-specific percentile is calculated.



Site 着	Sewershed Population	Consecutive Weeks of Virus Detection	Trend As Of	15-Day Trend
Alma WWTP	8976	3	5/2/2022	1
Battle Creek WWTP	51093	3	5/4/2022	1
Bay City WWTP	34000	3	5/5/2022	1
Delhi Township WWTP	22500	6	4/28/2022	+
Escanaba WWTP	12600	1	5/2/2022	+
GLWA Detroit River Interc	e 492000	80	4/27/2022	, and the second s
GLWA North Interceptor-	1482000	57	4/27/2022	, and the second s
GLWA Oakwood-	840600	80	4/27/2022	, and the second s
Grand Rapids WWTP	265000	39	5/5/2022	1
Holland WWTP North	45606	3	5/4/2022	+
Holland WWTP South	36912	5	5/4/2022	1
Jackson WWTP	90000	42	5/2/2022	1
Kalamazoo WWTP	150000	6	5/5/2022	1
Petoskey WWTP	7900	3	5/5/2022	1
Portage Lake WWTP	14000	34	5/2/2022	1
Saginaw Township WWTP	40000	4	5/5/2022	1
Tecumseh WWTP	8680	17	5/3/2022	1
Traverse City WWTP	45000	8	5/5/2022	1
Warren WWTP	135000	3	4/28/2022	+
Ypsilanti WWTP	330000	42	5/2/2022	1

Abbreviations: GLWA - Great Lakes Water Authority; WWTP - Waste Water Treatment Plant

Definitions and descriptions of data calculations can be found in the "About" tab.

Current results reflect data that were uploaded to MDHHS as of 5/11/2022. Labs are required to report test results to local partners within 24 hours. Data is subject to change as additional wastewater data and case data are received.

15-Day Trends 1000% or more 100% to 999% 10% to 99% 0% to 9% -1% to -9% -10% to -99% -100% to -999% -100% to -999% -1000% or more

Sentinel Summary

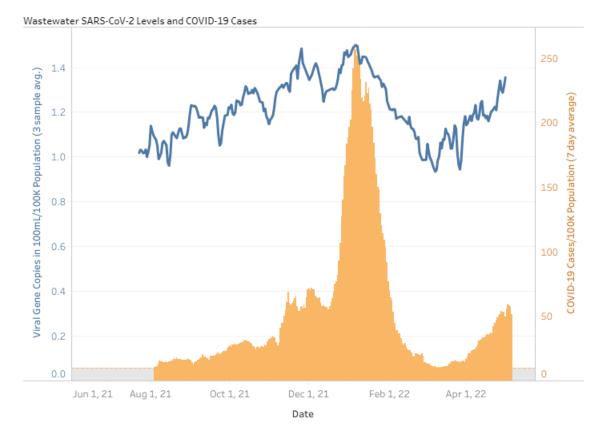
- 65% (13/20) of sentinel sites are showing increasing trends over last 15days
- 15% of sites have plateaued over the last 15 days
- 20% (4/20) of sentinel sites are showing declines in the previous 15-days

Interpreting Wastewater Should Be In Context with Other Indicators

- When levels of virus in wastewater are low, a modest increase overall in virus level can appear much larger as numbers are translated into percentages
 - This does not necessarily mean we will see major increases in transmission in the community
- When increases are seen within one wastewater site, public health officials compare with neighboring communities and other data sources to understand potential of surges
 - For example, the Ypsilanti WWTP saw increases in SARS-CoV-2 levels which correlated with increasing presence of Omicron BA.2 lineage and then followed by an increase in cases

Ypsilanti WWTP

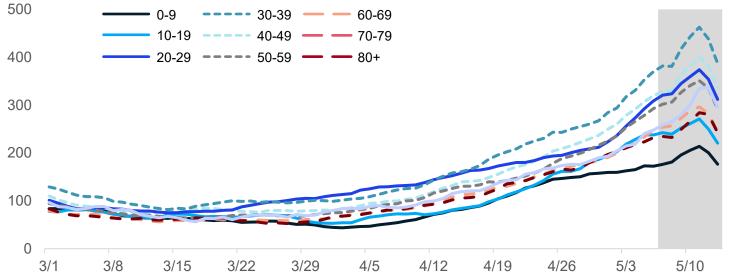
The most recent sample concentration is higher than 74% of samples collected at this site, which puts it in the 61-80 percentile category. As of 5/2/2022, the change in viral concentration over the past 15 days is increasing.



The blue line on the graph shows the levels of SARS-CoV-2, the virus that causes COVID-19, in the wastewater samples collected from Ypsilanti WWTP. Each data point is calculated by averaging the number of viral gene copies detected per 100mL of wastewater in the 3 most recent samples. The orange bars on the graph show the COVID-19 cases reported to MDHHS from the zip codes that the wastewater treatment plant serves (7-day average). Both the virus levels and COVID-19 cases are calculated per 100,000 people. Case data will not be shown on the graph when the average number of cases is fewer than 10 per 100,000 people to protect the confidentiality of individuals with infections. This will be represented by an orange dashed line with gray shading below.

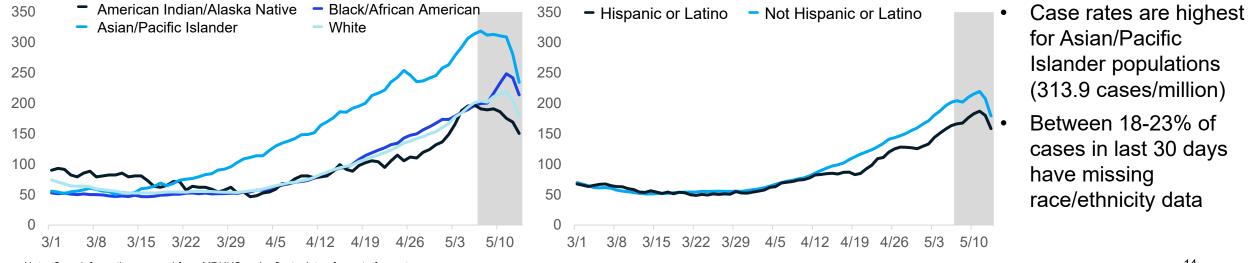
Case rate are increasing for all stratified groups

Daily new confirmed and probable cases per million by age group (7-day rolling average)



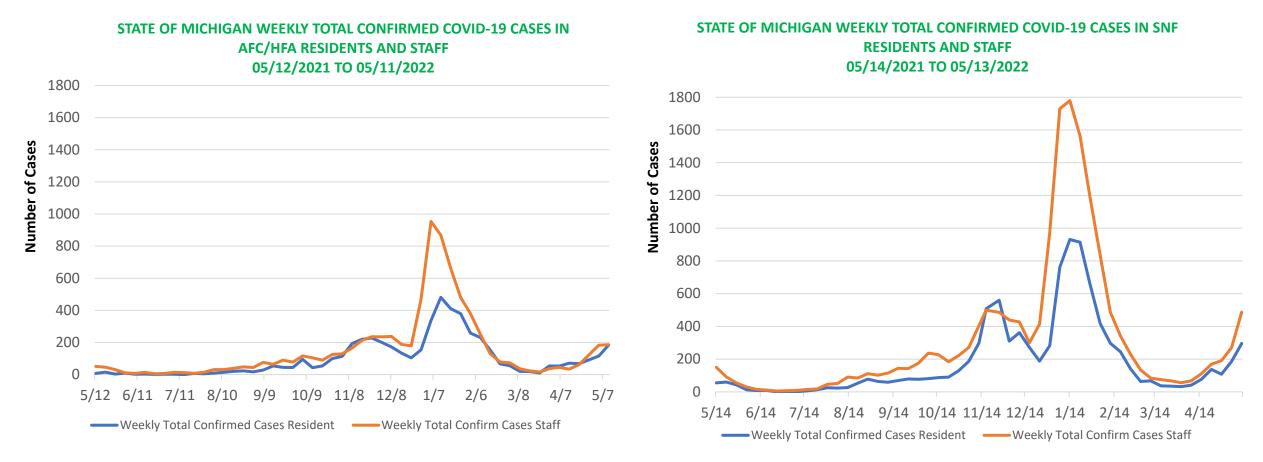
- Case rates by onset date for all age groups are between 172.4 and 370.1 cases per million (through 5/6)
- Case counts and case rates are highest for 30-39-year-olds this week, followed by 40–49-yearolds and the 20–29-year age groups

Daily new confirmed and probable cases per million (7 day rolling average) by race & ethnicity category



Note: Case information sourced from MDHHS and reflects date of onset of symptoms Source: MDHHS – Michigan Disease Surveillance System

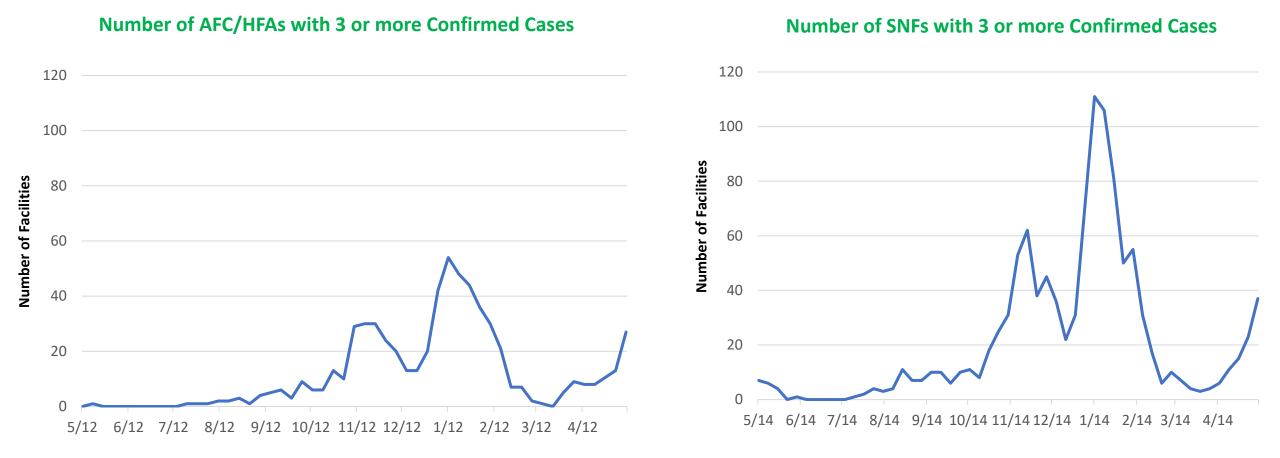
Cases continue are plateaued or increasing in staff and residents in Long Term Care Facilities



- Case counts in residents increased in AFC/HFA (186) in SNFs (296) since last week
- Case counts in staff increasing in AFC/HFA (186) and increased in SNF (487)
- 32% of SNFs are reporting nursing shortages and 36% of SNFs are reporting aide shortages

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

The Number of Outbreaks in Long Term Care Facilities are Increasing



The number of Long-Term Care Facilities reporting 3 or more cases within a single reporting period increased in AFC/HFA from 13 to 27, Increased in SNF from 23 to 37 in most recent data.

The data is from weekly reporting by facilities with bed occupancy of at least 13 beds.

During the Omicron wave, Nursing home residents with an additional dose/ booster were significantly more protected against infection compared to those fully vaccinated without a booster

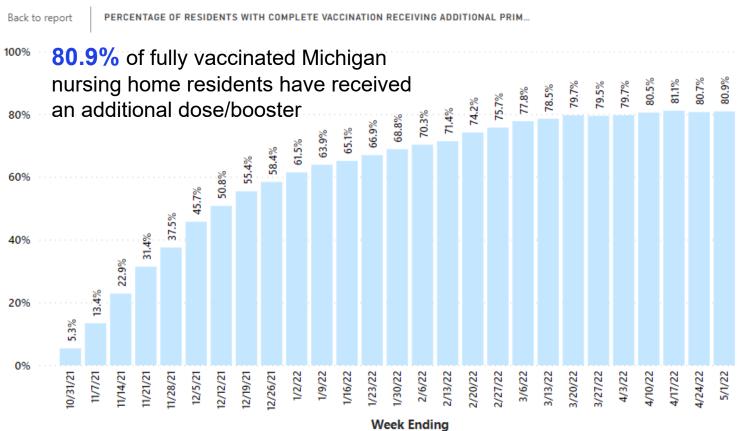
COVID-19 surveillance and vaccination coverage data among nursing home residents, were reported to CDC's National Healthcare Safety Network (NHSN) during February 14–March 27, 2022, when the Omicron variant accounted for >99% of sequenced isolates.

Overall, 7,510 cases were confirmed among 1,509,674 resident-weeks with primary series vaccination only and 11,334 cases were confirmed among 4,416,401 resident-weeks with an additional or booster dose

Relative vaccine efficacy of a COVID-19 additional primary or booster dose was 46.9% (95% CI = 44.8%–48.9%)

These findings indicate that COVID-19 additional primary or booster doses provide greater protection against Omicron variant infection than primary series vaccination alone.

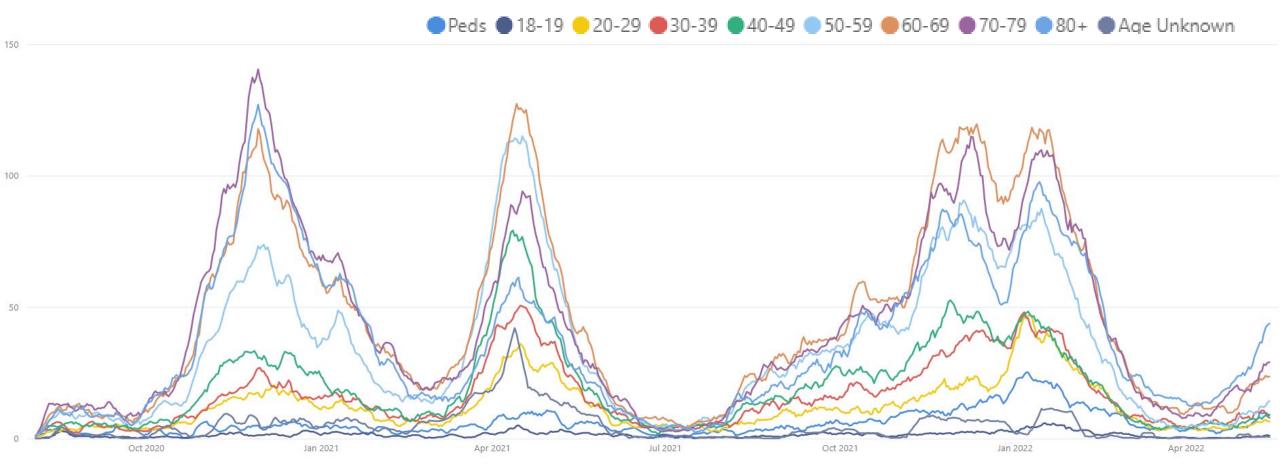
Percentage of Fully Vaccinated Nursing Home Residents with Additional Primary or Booster Dose, by Week – Michigan



MMWR Article: <u>https://www.cdc.gov/mmwr/volumes/71/wr/mm7118a4.htm?s_cid=mm7118a4_w</u>

Data: https://www.cdc.gov/nhsn/covid19/ltc-vaccination-dashboard.html

Hospital admissions due to COVID-19 remain low but are increasing



- Trends for daily average hospital admissions increased (+34%) since last week (vs. +18% prior week)
- Over half of the age groups saw increases this week
- Those 70-79 and 80+ are now seeing between 29-45 daily hospital admissions

Hospital Admissions and Admission Rates by Age Group

Daily new hospital admission per million by age group (7-day rolling average)

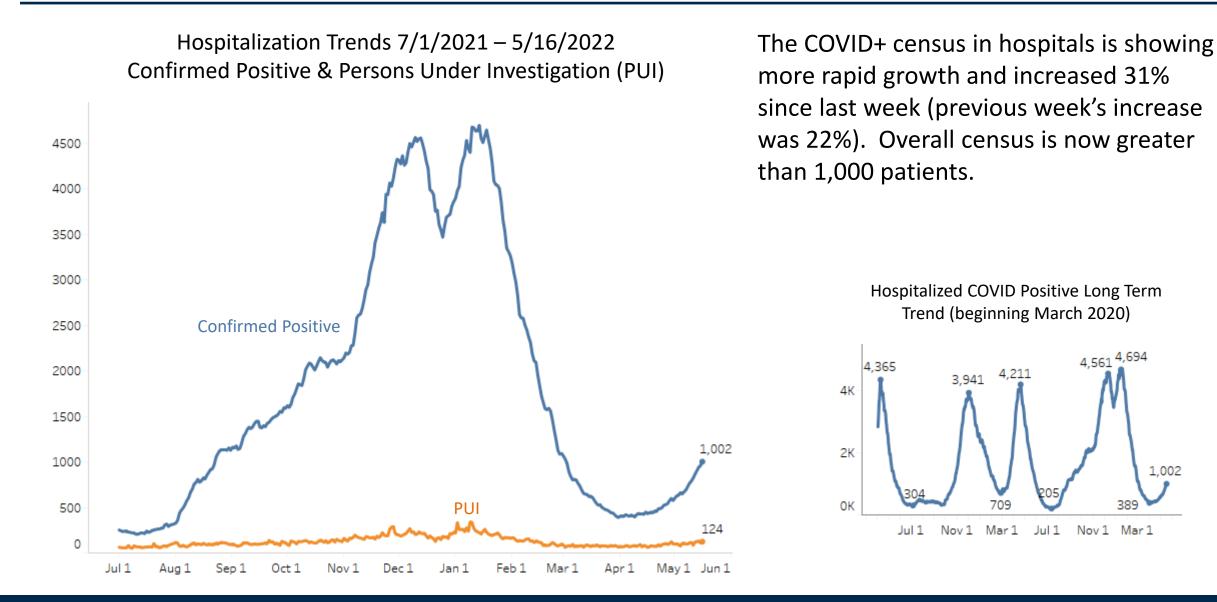
Age Group	Average [†] daily number of hospital admissions	Average [†] Daily Hospital Admission Rate*	One Week % Change (Δ #)
0-11	6.6	4.7	+64% (+3)
12-17	1.3	1.7	-10% (0)
18-19	1.4	5.4	+100% (+1)
20-29	7.0	5.1	+36% (+2)
30-39	9.4	7.8	+27% (+2)
40-49	8.6	7.3	+15% (+1)
50-59	12.1	9.0	+20% (+2)
60-69	23.9	18.7	+20% (+4)
70-79	27.7	36.1	+37% (+7)
80+	41.0	99.0	+48% (+13)
Total [¶]	141.6	12.4	+34% (+36)

* Rate per 1 million residents; † Rolling 7-day average; ¶ Total may not reflect state due to missing age data Note: Hospital Admission data reflects date data was submitted Source: CHECC and EM Resource

- Through May 13, there were an average of 141.5 hospital admissions per day due to COVID-19; an increase from last week (+34%, +36)
- Most age groups continued to increase this week
- The largest one-week percent increase was among those 80+ years (+48%, +13)
- Average daily hospital admission count (41.0 hospital admissions per day) and average daily hospital admission rate (99.0 hospital admissions/million) were highest among those aged 80+
- Those 70-79 and 80+ are seeing between 25-45 daily hospital admissions

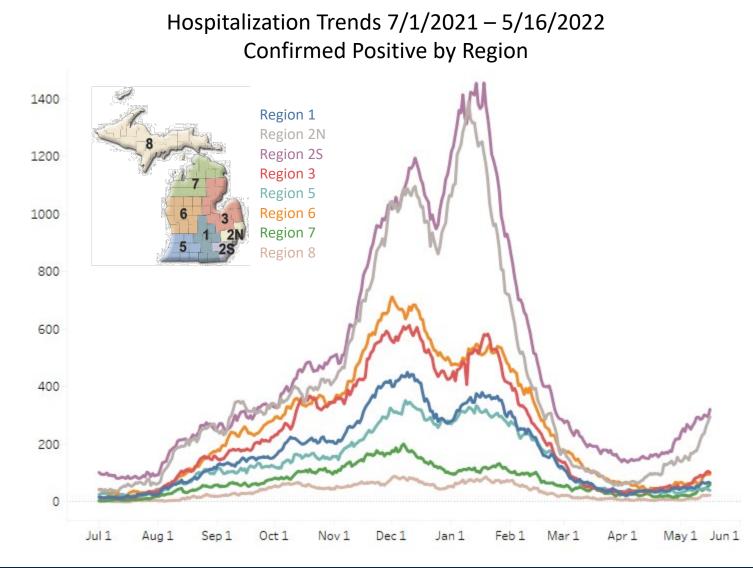
Note: for some age groups, small changes in number of hospitalization admissions can cause large change in One Week Percent Change

Statewide Hospitalization Trends: Total COVID+ Census





Statewide Hospitalization Trends: Regional COVID+ Census

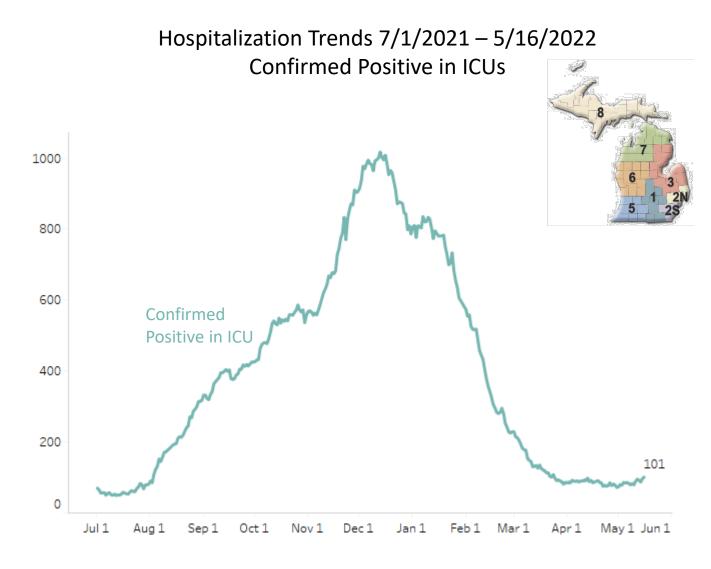


This week the COVID+ census has increased in all regions except Region 5. The fastest growth was seen in Region 2N, 6, 7 and 8.

Regions 2N, 2S, and 7 now have greater than 100/Million population hospitalized with COVID.

Region	COVID+ Hospitalizations (% Δ from last week)	COVID+ Hospitalizations / MM
Region 1	66 (18%)	61/M
Region 2N	295 (67%)	133/M
Region 2S	321 (10%)	144/M
Region 3	102 (21%)	90/M
Region 5	40 (-15%)	42/M
Region 6	96 (43%)	65/M
Region 7	59 (84%)	118/M
Region 8	23 (130%)	74/M

Statewide Hospitalization Trends: ICU COVID+ Census



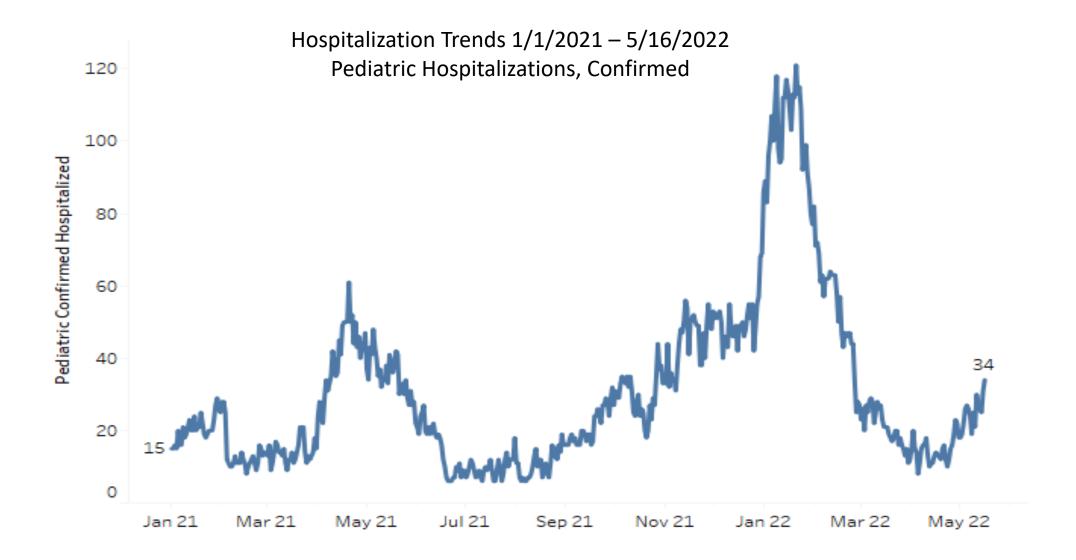
Overall, the census of COVID+ patients in ICUs has increased by 22% from last week. There are 101 COVID+ patients in ICU beds across the state. Region 2N is driving the statewide increase.

In Region 8, COVID+ patients fill 10% of ICU beds.

Region	Adult COVID+ in ICU (% Δ from last week)	ICU Occupancy	% of ICU beds COVID+
Region 1	6 (-25%)	88%	3%
Region 2N	31 (182%)	67%	6%
Region 2S	37 (9%)	82%	6%
Region 3	9 (29%)	86%	3%
Region 5	1 (-89%)	69%	1%
Region 6	3 (50%)	67%	1%
Region 7	8 (-20%)	78%	6%
Region 8	6 (200%)	71%	10%

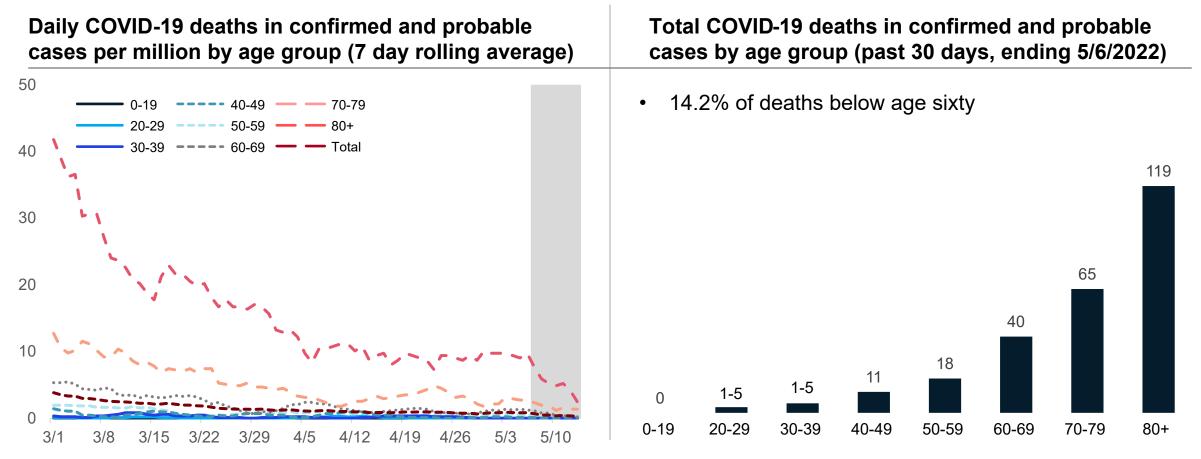


Statewide Hospitalization Trends: Pediatric COVID+ Census





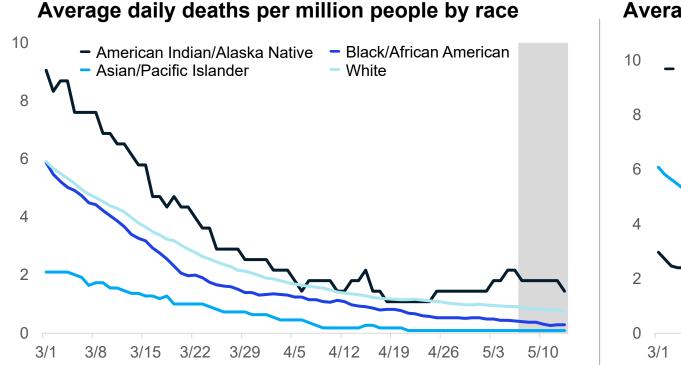
Average new deaths have plateaued for most age groups



- Through 5/6, the 7-day avg. death rate is no longer decreasing (10 deaths per million people) for those over the age of 80
- In the past 30 days, there are fewer than 10 among confirmed and probable COVID-19 cases under the age of 40
- 30-day proportion of deaths among those under 60 years of age is 14.2%. This proportion has decreased incrementally over the last 3 weeks (last week 16.8%)

Note: Death information sourced from MDHHS and reflects date of death of confirmed and probable cases. Source: MDHHS – Michigan Disease Surveillance System (MDSS)

Daily average deaths per million people by race and ethnicity have plateaued or are increasing slightly



Average daily deaths per million people by ethnicity

¹⁰ - Hispanic or Latino - Not Hispanic or Latino 8 6 4 2 0 3/1 3/8 3/15 3/22 3/29 4/5 4/12 4/19 4/26 5/3 5/10

- Deaths are lagging indicator of other metrics
- Currently, the American Indian/Alaskan Native population have the highest death rate (2.2 deaths/million)

Note: Death information sourced from MDHHS and reflects date of death of confirmed and probable cases. Source: MDHHS – Michigan Disease Surveillance System

Harm Reduction: Key Messages

Michiganders can take advantage of local, state, and national COVID-19 resources

- Empowering community members to make best choices for their individual circumstances and to be prepared by making a COVID plan
- CDC recommends masking indoors when COVID Community Levels reach high
- Get tested and if positive, seek care with therapeutics

Vaccinations and Boosters

- CDC Authorizes 2nd Booster for those moderately to severely immunocompromised or those 50 years of age and above
- COVID-19 vaccinations remain safe and effective to prevent spread and severe disease:
 - COVID-19 can make some children very sick and COVID-19–associated hospitalization rates in children aged 5–11 years were approximately twice as high among unvaccinated as among vaccinated children
 - Cardiac Complications were 2-6X higher for boys aged 12-17 years after SARS-CoV-2 Infection than after mRNA COVID-19 Vaccination
- 60.7% of fully vaccinated Michiganders have received at least one booster. Vaccination coverage has modestly increased overall with greatest increase in the percent who have received a booster dose

Other Notable Messages

- Between January and December 2021, COVID-19 was associated with approximately 460,000 deaths in the U.S. and was the third leading cause of death in the U.S. in 2021
- Childhood routine immunization rates (non-COVID vaccinations) have been negatively impacted by the pandemic especially among the Medicaid population

Make a COVID-19 Plan





Visit <u>Michigan.gov/Coronavirus</u> for current COVID-19 information.



Make a plan for vaccination or learn if you are eligible for boosters.

- Ages 5 and older can get vaccinated.
- Ages 12 and older can get the booster.



- Ages 50 and older, or 12 and older and moderately to severely immunocompromised, can schedule a second booster.
- Learn more about vaccines and whether you're up to date at <u>Michigan.gov/COVIDVaccine</u>.



Keep a supply of well-fitting masks.

Masks are helpful tools to reduce COVID-19 transmission, especially if:

- You are unwell or test positive for COVID-19.
- You have been exposed to someone with COVID-19.
- You are concerned about the risk of transmission in a particular setting. Respect that others may have a risk different than yours.

Learn more about masking at <u>Michigan.gov/MaskUp</u>.



Keep a supply of over-the-counter COVID-19 tests.

Tests are useful for early detection of COVID-19, especially if:

• You have symptoms of or have been exposed to COVID-19.



 You are traveling or will be attending a large or unmasked gathering. Test before and after attending large events.
 Over-the-counter tests are available at libraries and schools through MIbackpack, also through federal distribution programs.

Learn more about COVID-19 testing at Michigan.gov/COVIDTest.



Learn if you are eligible for COVID-19 therapeutics.

• Talk to a primary care provider about whether you are eligible for preventative antibodies or for COVID-19 antiviral treatment if you become infected.

Learn more about COVID-19 therapeutics at <u>Michigan.gov/COVIDTherapy</u>.

Testing

- Keep a supply of at-home tests
- Consider testing before and after travel or large events/gathering
- Test early and seek care

Library Partnership for At-Home Test

> Contain COVID > Test > Library Partnership for At-Home Test

MDHHS has partnered with several libraries across the state of Michigan to provide free at-home COVID-19 test kits to Michiganders.

Individuals and families should consider seeking out COVID-19 at-home test kits if they are considered more vulnerable to sever health outcomes from contracting COVID-19 or live, work, and socialize in group settings.

Additional information on COVID-19 self-testing can be found here: Self-Testing_Fast_Facts_v5_744280_7.pdf (michigan.gov)

Households are eligible to receive up to 5 free at-home test kits from participating library partners while supplies last. Participating library partners are listed below:

Library	Address	City	Zip
Amy Van Andel Library (ADA)	7215 Headley SE	Ada	49301
Adrian District Library	143 E. Maumee St.	Adrian	Have questions?
Albion District Library	501 S Superior St.	Albion	Chat with Robin
Allegan District Library	331 Hubbard St.	Allegan	49010

https://www.michigan.gov/coronavirus/contain-covid/test/library-partnership-for-at-home-test

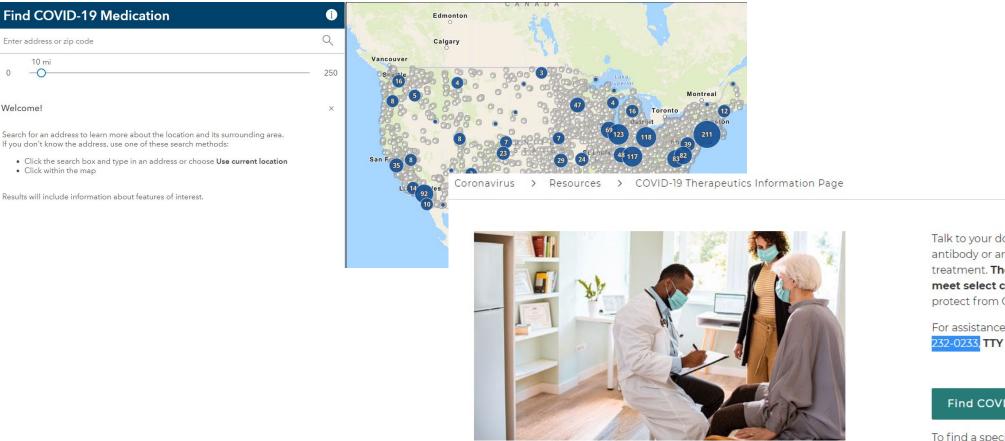


Federal website & Michigan site assists COVID positive residents find treatment

COVID-19 resources available on federal website: COVID.gov

Test-to-Treat program simplifies access to COVID treatment: Find a Test-to-Treat location near you

- If you have COVID-19 symptoms, do not wait to get treated
- You must take oral COVID-19 medication within 5 days of your first COVID-19 symptoms
- Use the tool to find a location that is right for you



Talk to your doctor about whether you should get antibody or antiviral treatment, and where you can find treatment. **Therapeutics are authorized for people who meet select criteria.** <u>Vaccinations</u> remain the best way to protect from COVID-19.

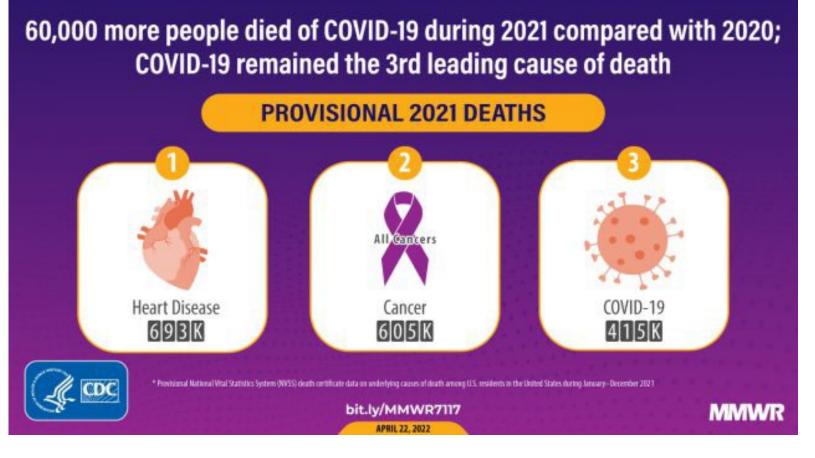
For assistance locating COVID-19 therapeutics call <mark>1-800-232-0233, TTY</mark> 1-888-720-7489. Available in 100 languages.

Find COVID-19 Treatment

To find a specific medication, enter the therapy name in the search bar.

COVID-19 was the 3rd leading cause of death in 2021

- Between January and December 2021, COVID-19 was associated with approximately 460,000 deaths in the U.S.
- The overall age-adjusted death rate increased by 0.7% in 2021 from 2020
- Overall death rates were highest among non-Hispanic American Indian or Alaskan Native and non-Hispanic Black or African American populations
- For a second year, COVID-19 was the third leading cause of death after heart disease and cancer



Commonwealth Fund: COVID-19 vaccines saved millions lives, averted tens of millions of infection, and saved billions of dollars Projected U.S. Seven-Day Rolling Average of Daily Deaths per

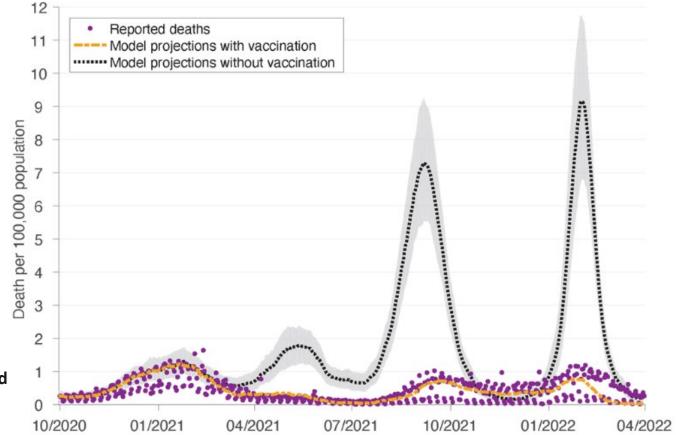
Latest model estimates the impact of vaccine through the Omicron wave and demonstrates the impact of boosters

Modeling estimates from the Commonwealth Fund estimated that COVID-19 vaccine prevented:

- Over 2 million deaths
- 17 million hospitalizations
- 66 million infections
- almost \$900 billion in health care costs

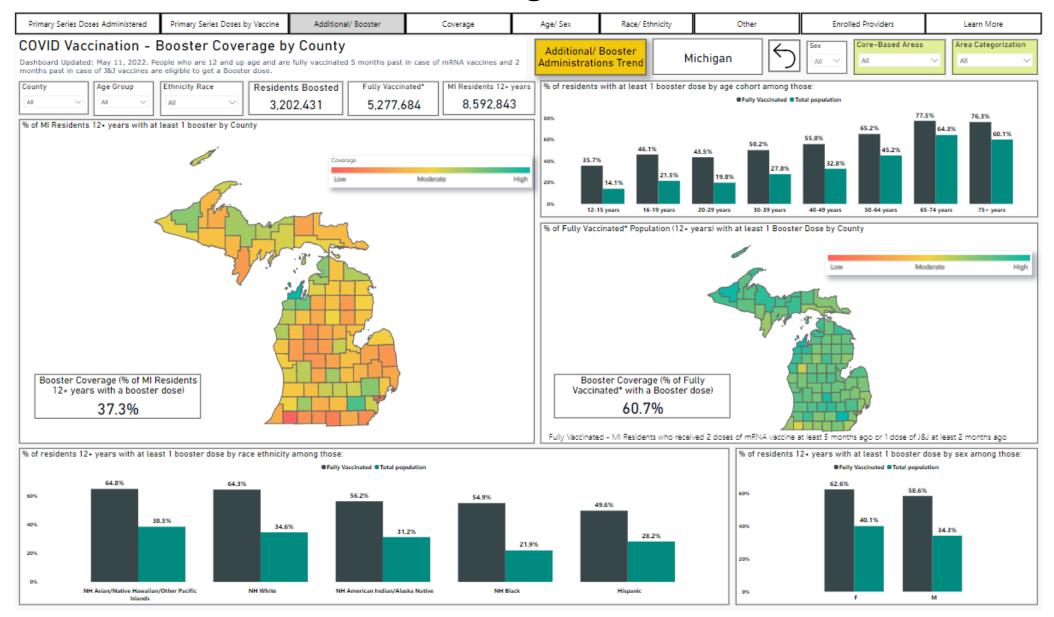
Estimates of COVID-19-Attributable Deaths, Hospitalizations, Infections, and Health Care Costs Averted by the U.S. Vaccination Program Between December 12, 2020, and March 31, 2022

100,000 Population, With and Without Vaccination



Deaths	2,265,222	2,051,041 to 2,467,683
Hospitalizations	17,003,960	15,680,556 to 18,250,413
Infections	66,159,093	58,774,953 to 73,787,291
Health care costs	\$899.4 billion	\$825.3 billion to \$978.5 billion

Additional Doses and Booster Coverage



https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

Vaccinations and Boosters

- Over 16 million COVID-19 vaccine doses have been administered in Michigan
 - Over 6.7 million Michiganders have received at least one dose (67.1%)
 - Over 6 million Michiganders have completed a primary series (60.3%)
 - Over 3.28 million additional/booster doses have been administered in Michigan
 - 54.5% of the fully vaccinated population has received a booster
 - 76.9% of the fully vaccinated population 65 years of age or older has received a booster

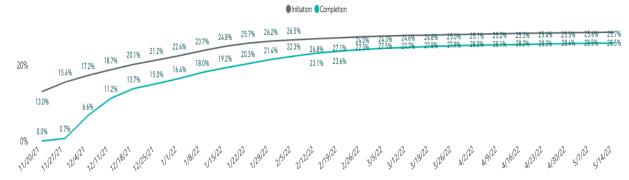
COVID-19 Vaccine Coverage by Age Group





Initiation Completion

5–11-year-olds



https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

https://covid.cdc.gov/covid-data-tracker/#vaccinations

CDC Authorizes 2nd Booster for those moderately to severely immunocompromised or those 50 years of age and above

Four months after receipt of a first booster dose of Pfizer BioNTech, Moderna or Janssen (Johnson & Johnson), the following are now authorized, and individuals may choose to receive:

- A second booster dose of the Pfizer-BioNTech COVID-19 vaccine or Moderna COVID-19 vaccine may be administered to individuals <u>50 years of age and older.</u>
- A second booster dose of the Pfizer-BioNTech COVID-19 vaccine may be administered to moderately or severely immunocompromised individuals 12 years of age and older.
- A second booster dose of the Moderna COVID-19 vaccine may be administered to moderately or severely immunocompromised individuals 18 years of age and older.

The CDC definition for Up to Date on COVID-19 Vaccine is not changed:

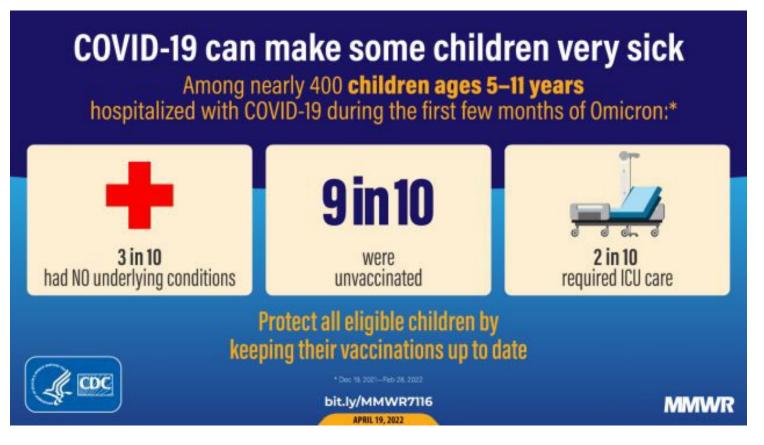
 A person is up to date with their COVID-19 vaccination if they have received all recommended doses in the primary series and <u>one booster</u> when eligible. Getting a second booster is not necessary to be considered up to date <u>at this time</u>. Michigan currently has nearly **3.2 million** COVID vaccine doses:

- 1.08 million adult Pfizer
- 0.5 million pediatric Pfizer
- 1.3 million Moderna
- 0.25 million J&J

If you are interested in an additional/booster dose, you should not feel the need to wait.

December 2021 through February 2022 saw COVID-19-associated hospitalization rates in children 5-11 that were twice as high among unvaccinated than in vaccinated children

- COVID-19 can cause severe illness in children
- During the period of Omicron predominance (Dec 19, 2021–Feb 28, 2022), COVID-19– associated hospitalization rates in children aged 5–11 years were approximately 2X as high among unvaccinated as among vaccinated children
 - Non-Hispanic Black children represented the largest group of unvaccinated children
 - Thirty percent of hospitalized children had no underlying medical conditions, and 19% were admitted to an intensive care unit
 - Children with diabetes and obesity were more likely to experience severe COVID-19
- Increasing COVID-19 vaccination coverage among children aged 5–11 years, particularly among racial and ethnic minority groups disproportionately affected by COVID-19, can prevent COVID-19–associated hospitalization and severe outcomes



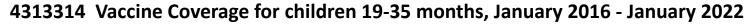
Cardiac Complications was Significantly Higher after SARS-CoV-2 Infection than after mRNA COVID-19 Vaccination

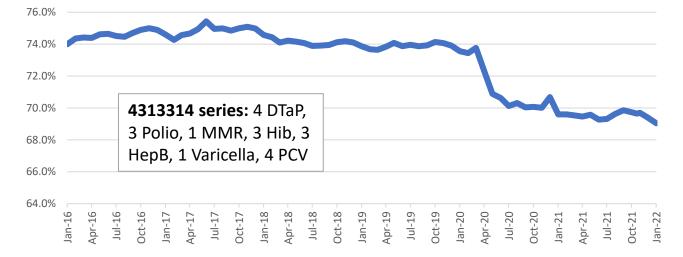
- Data from 40 health care systems participating in a large network found that the risk for cardiac complications was significantly higher after SARS-CoV-2 infection than after mRNA COVID-19 vaccination for both males and females in all age groups
- These findings support continued use of recommended mRNA COVID-19 vaccines among all eligible persons aged ≥5 years

Risk of heart complications* is higher after COVID-19 infection than after mRNA COVID-19 vaccination among males and females of all ages TEEN BOYS (ages 12-17 years) had YOUNG MEN (ages 18-29 years) had the risk of heart complications after infection the risk of heart complications after infection compared to after vaccination[†] compared to after vaccination⁺ COVID-19 vaccination is the best way to protect against COVID-19 and rare heart complications ystein inflammatory syndrome among U.S. patients in 48 healthcare systems, Jan 1, 2021-Jan 31, 2022 Compared with the risk after second dose of mRNA COVID-19 vaccine MININ bit.lv/MMWR7114

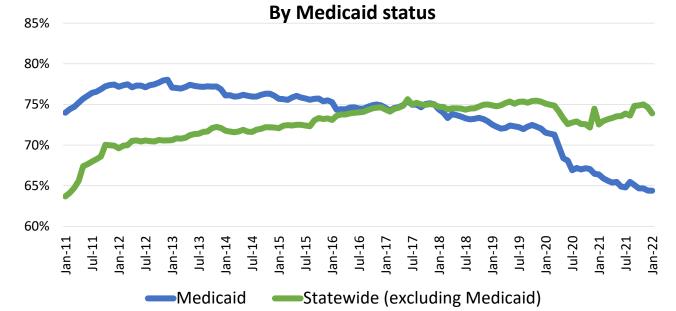
Vaccines save lives: unfortunately, childhood immunization rates have been negatively impacted by the pandemic – especially among the Medicaid population

- Childhood vaccination coverage decreased from 74% to less than 70% since the start of the COVID pandemic
- Childhood vaccination rates have not returned to pre-pandemic levels
- Childhood vaccine coverage in the Medicaid population has been decreasing compared to the non-Medicaid population; this decrease accelerated during the pandemic
- A childhood vaccine for COVID-19 may not be far around the corner
- Pediatric providers are going to be critically important for administering vaccine in this age cohort
- This offers an opportunity to get kids up to date on core childhood vaccines





4313314 Vaccine Coverage for children, 19-35 months, January 2011 - January 2022



Vaccines

Protect against severe outcomes

Vaccines are available for ages 5 and up. Boosters are available for ages 12 and up.

Masks, Distancing & Ventilation

Prevent spread

People with symptoms, a positive test, or exposure to someone with COVID-19 should wear a mask. Masking may also be based on personal preference and informed by personal level of risk.



Tests

Prevent spread

Over-the-counter tests allow for testing at home; an important addition to on-site antigen and PCR testing.

Treatment

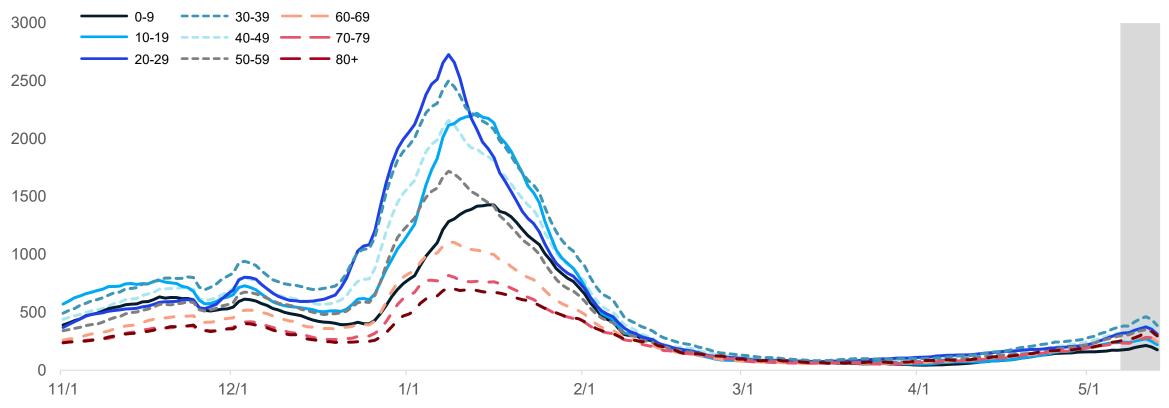
Protect against severe outcomes

Oral antivirals and monoclonal antibodies can reduce the risk of hospitalization and death from COVID-19.

APPENDIX

Case Rate Trends by Age Group

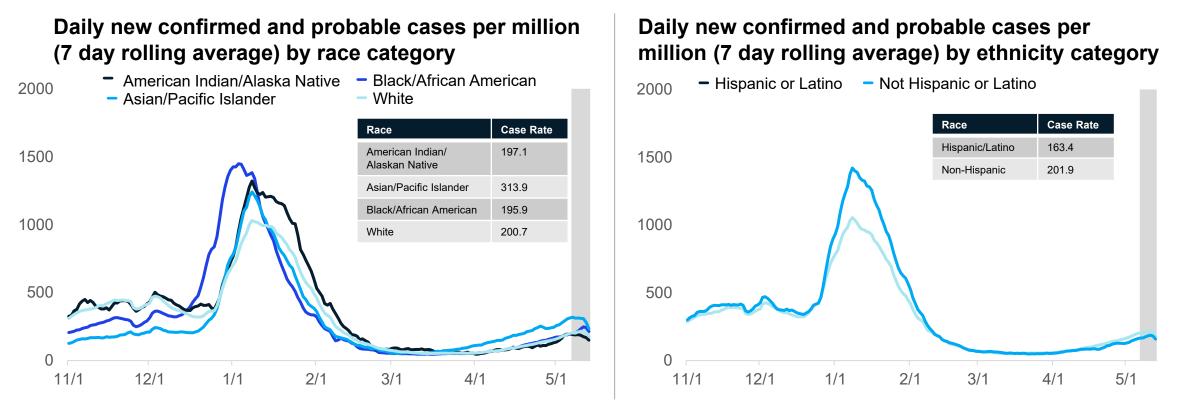
Daily new confirmed and probable cases per million by age group (7-day rolling average)



- Case rate trends for all age groups experienced an increase over the last week
- Case rates by onset date for all age groups are between 172.4 and 370.1 cases per million (through 5/6/22)
- Case counts and case rates are highest for 30-39-year-olds this week, followed by 40-49 and the 20-29 age groups

Note: Case information sourced from MDHHS and reflects date of onset of symptoms Source: MDHHS – Michigan Disease Surveillance System

Case Rates by Reported Racial and Ethnic Group



Updates since last week:

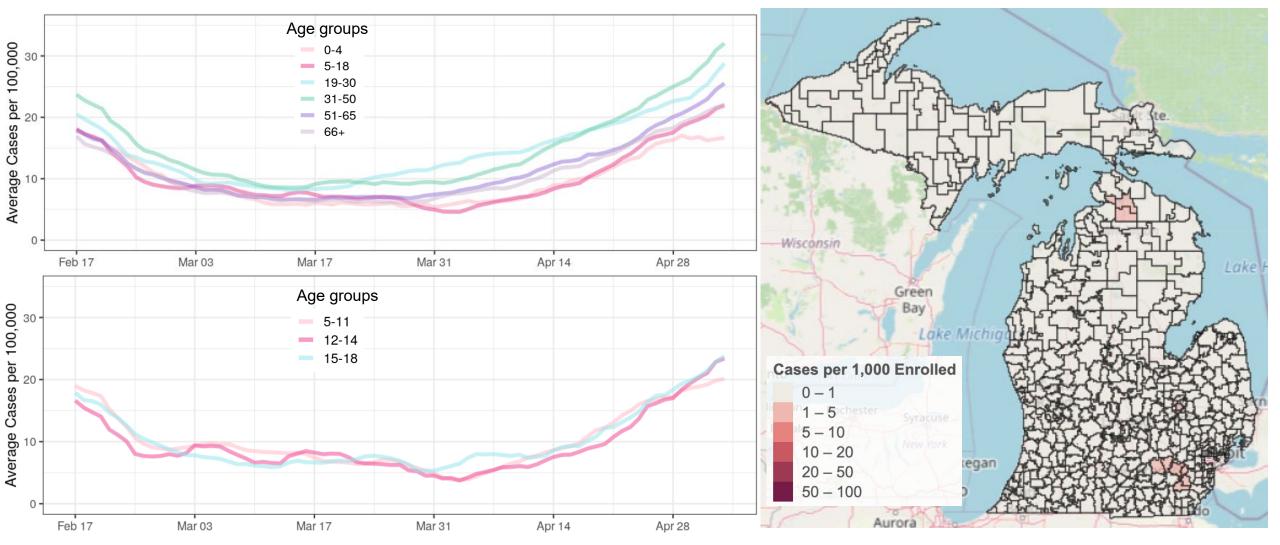
- Cases per million are increasing at the same rate for all reported racial and ethnic groups, with the exception of Asian/Pacific Islander
- In the past 30 days, 18.4% (↓ 8%) of race data and 23.1% (↓ 10.1%) ethnicity data was either missing or reported as unknown

Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases. Source: MDHHS – Michigan Disease Surveillance System

Case rate increase in the school-aged population statewide

• Case rates in 5–18-year-olds are lower than rates in 19–50-year-olds

• Case rates among school-aged populations continue to increase along with other age groups



Sources: MDSS case data as of 5/16/2022 (data through 5/4/22), line charts use statewide age group population, map uses ISD enrolled populations from EOG mask tracker data.

Ongoing to the second s



A surge is expected due to a new variant, local outbreak, seasonal changes.

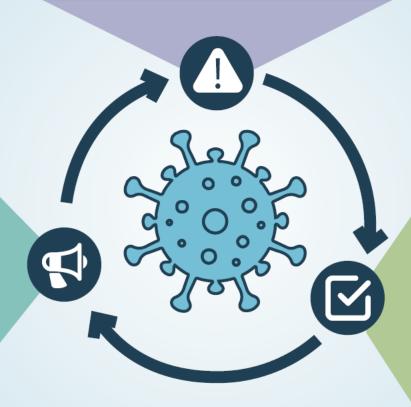
Expect increased illness severity and overwhelmed hospital capacity.

- Educate public regarding new risks.
- Ensure enough supplies of tests, masks and medications.

Response (Surge)

A surge means rapid response by local and state public health.

- Increased supplies for testing, masking and medications.
- Increased masking, testing and social distancing efforts.





Visit <u>Michigan.gov/Coronavirus</u> for current COVID-19 information.



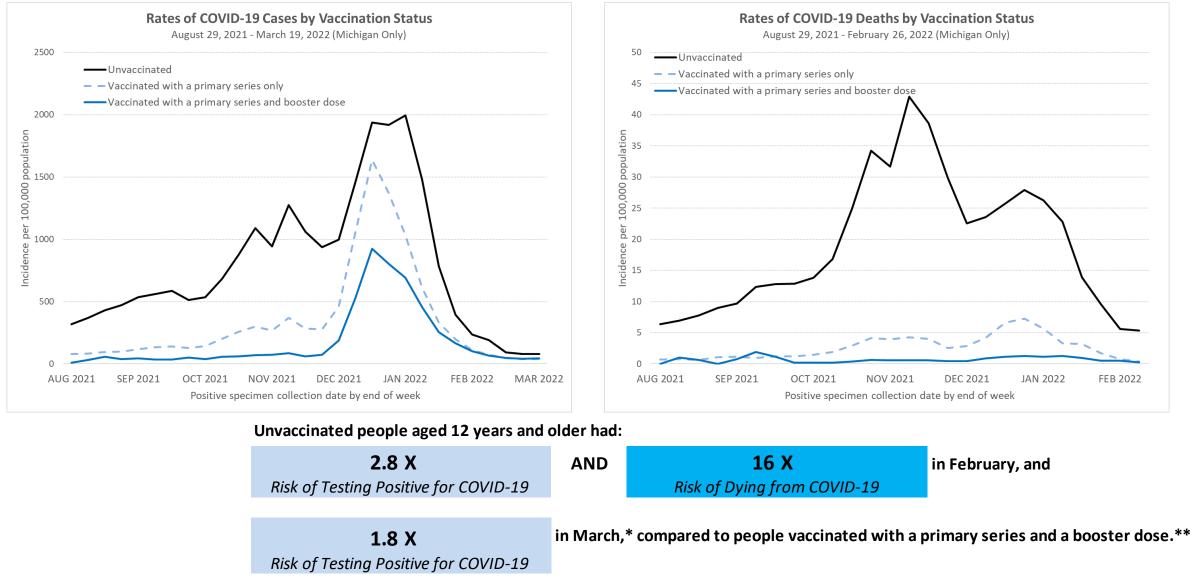
Recovery (Post-Surge)

Expect to remain in this phase for longer periods as COVID-19 evolves.

Monitor conditions that may lead to surges, such as a new variant.

- Encourage vaccines to decrease COVID-19 risks.
- Strengthen community support with local stakeholders.
- Empower community members to make best choices for individual situations.

Unvaccinated people in Michigan had 1.8 times the risk of testing positive for COVID-19 in March compared to people up to date on their vaccination



*These data reflect cases among persons with a positive specimen collection date through March 19, 2022, and deaths among persons with a positive specimen collection date through February 26, 2022. Please note that these provisional data are subject to change. **Data on immune status are unavailable, thus an additional dose in an immunocompromised person cannot be distinguished from a booster dose.

Cumulative COVID-19 Cases by Vaccination Status, Michigan, 1/15/21–4/8/22

Fully Vaccinated People (5,678,598)				
Cases	Hospitalizations*	Deaths		
Percent of Cases In People Not	Percent of Hospitalizations In People	Percent of Deaths In People Not		
Fully Vaccinated	Not Fully Vaccinated	Fully Vaccinated		
(1,213,561/ 1,702,057)	(27,234 / 33,197)	(15,422 / 19,879)		
71.3%	82.0%	77.6%		
1,213,561	27,234	15,422		
Total Cases Not Fully Vaccinated	Total Hospitalized Not Fully Vaccinated	Total Deaths Not Fully Vaccinated		
Total Breakthrough Cases 488,496	Total Breakthrough Hospitalizations 5,963	Total Breakthrough Deaths 4,457		
8.6%	0.105%	0.078%		
Percent of Fully Vaccinated People who	Percent of Fully Vaccinated People Who Were	Percent of Fully Vaccinated People Who Died of		
Developed COVID-19 (488,496 / 5,678,598)	Hospitalized for COVID-19 (5,963 / 5,678,598)	COVID-19 (4,457 / 5,678,598)		
28.7%	18.0%	22.4%		
Percent of Cases Who Were Fully Vaccinated	Percent of Hospitalizations Who Were Fully	Percent of Deaths Who Were Fully Vaccinated		
(488,496 / 1,702,057)	Vaccinated (5,963 / 33,197)	(4,457 / 19,879)		
Total Cases: 1,702,057	Total Hospitalizations: 33,197	Total Deaths: 19,879		

*The Michigan Disease Surveillance System (MDSS) may underestimate the frequency of COVID-19 hospitalizations due to the following:

- Universal case investigations are no longer being performed

- Case investigation and follow-up is more difficult for individuals who get hospitalized (e.g., they are too ill to speak to investigators, don't answer their phone, or otherwise).

- These hospitalizations include individuals who are hospitalized for issues other than COVID19 (the same as breakthrough COVID-19).

- Many hospitalizations often lag after initial infection and may occur after case investigation.

Vital Infrastructure: K-12 school clusters and outbreaks, week ending May 12th

Number of reported outbreaks/clusters increased since last week (122 to 176), all regions reported at least 1 outbreak.

Region	Number of reported cases, #	# Ongoing - Excluding New 📃 # New	Number of outbreaks	Range of cases per outbreak
Region 1	88 108		25	3-62
Region 2n	0 0		0	N/A
Region 2s	460 111		77	3-42
Region 3	666 47		32	2-110
Region 5	26 3		6	3-9
Region 6	10 <mark>8 43</mark>		22	3-21
Region 7	<mark>148</mark> 31		12	4-64
Region 8	12 0		2	5-7
Total	1,508 343		176	2-110
Grade level	Number of reported cases, #	📕 # Ongoing - Excluding New 📃 # New	Number of outbreaks	Range of cases per outbreak
Pre-school - elem.	813 208		124	3-64
Jr. high/middle schoo	ol <mark>256</mark> 9		20	2-93
High school	435 126		31	2-110
Administrative	4 0		1	4
Total	1,508 343		176	2-110

Many factors, including the lack of ability to conduct effective contact tracing in certain settings, may result in significant underreporting of outbreaks. This chart does not provide a complete picture of outbreaks in Michigan and the absence of identified outbreaks in a particular setting in no way provides evidence that, in fact, that setting is not having outbreaks. NOTE (10/4): MDHHS adopted the new <u>CSTE school cluster and outbreak definition</u> which impacts how transmissions within school-sponsored settings are reported to the health department Source: LHD Weekly Sitreps