

# Ottawa County COVID-19 Epidemiology

April 14, 2023

Data as of April 8, 2023, unless otherwise indicated.

www.miOttawa.org/miHealth

Our Vision Healthy People



- Weekly reported cases in the US and in Michigan are stable and relatively low
- Ottawa County transmission signals may be showing decreases
  - Last week positivity **decreased** to 7.8%, from 10% two weeks ago.
  - Weekly case counts **decreased** 36% (-19% two weeks ago), from 92 two weeks ago to 59 last week.
  - Cases among children **decreased** 20% (0% two weeks ago), from 5 two weeks ago to 4 last week.
  - COVID-19 wastewater signals in Ottawa County are low. In Holland/Zeeland the latest signals have decreased and may be stabilizing; Grand Haven/Spring Lake signals are low and stable, and Allendale signals are low but mixed.
  - Based on national data, a variety of Omicron subvariants are likely circulating.
  - Ottawa's CDC Community Level is LOW.
  - Ottawa's CDC Transmission Level is **SUBSTANTIAL** as of April 14, 2023.
- Ottawa-area and regional hospitals have adequate capacity
  - In Ottawa County, 0% of all available beds and 0% of all ICU beds are occupied by COVID-19 patients.\*
- Pediatric hospitalization rates in the US and in Michigan remain relatively low
  - Regional COVID-19 pediatric hospitalization census remains low compared to the late 2021 and early 2022 Omicron surge.
- Of Ottawa County residents aged 6 months and older, 61.8% have received their primary vaccine series.

\*Some hospitals in Ottawa County immediately transfer acutely ill adults or children to regional hospitals that offer a higher level of care. This practice may reduce the proportion of beds occupied by COVID-19 patients in Ottawa and increase bed occupancy in urban centers with large hospitals, such as Kent County.

# Limitations

#### Case Counts, Case Rates, and Test Positivity

With the widescale availability of at-home antigen tests for COVID-19, which are not reported or included in public health surveillance data, the case counts and case rates in this report underestimate the true burden of this disease. However, it is expected that increasing and decreasing trends reflect the relative amount of transmission in the community.

#### Wastewater Surveillance

Wastewater samples are collected from specific geographic sites in the county and may not reflect COVID-19 burden across the entire county population. However, increases and decreases in detected trends generally correlate with case rates, therefore wastewater readings are displayed alongside countywide incidence rates in this report.

# Ottawa County Metrics by Week

				Week Ending		
Metric	Goal	11-Mar-23	18-Mar-23	25-Mar-23	1-Apr-23	8-Apr-23
Positivity (All Ages)	NA	10.4%	14.7%	10.1%	10.0%	7.8%
Weekly Cases (All Ages)	<592	106	145	113	92	59
Weekly Cases in Children (0-17 years of age)	NA	19	10	5	5	4
Total Deaths (All Ages)	0	2	5	2	3	0
CDC COVID-19 Community Level	Low	Low	Low	Low	Low	Low

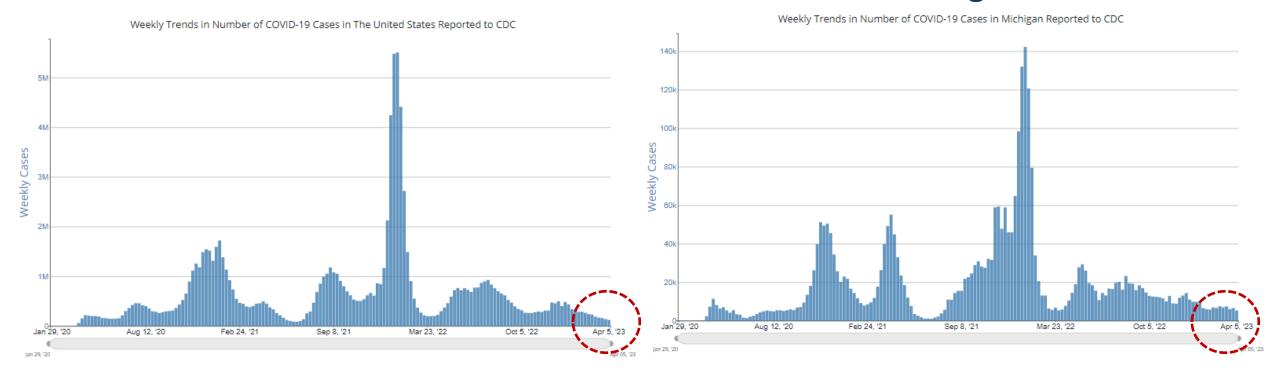
Please note that with updated CDC Community Levels, metrics and/or metric thresholds/goals may change.

**Notes:** Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in an artificially lower number of cases. Hospitalization and/or death may occur after initial infection, meaning the number of hospitalizations and deaths from recent weeks may increase

# Weekly Case Trends in the USA and Michigan

USA

### Michigan



Weekly case counts in the US and Michigan remain lower than previous surges, are stable, and may be declining.

Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in an artificially lower number of cases. Source: https://covid.cdc.gov/covid-data-tracker/#trends\_dailycases

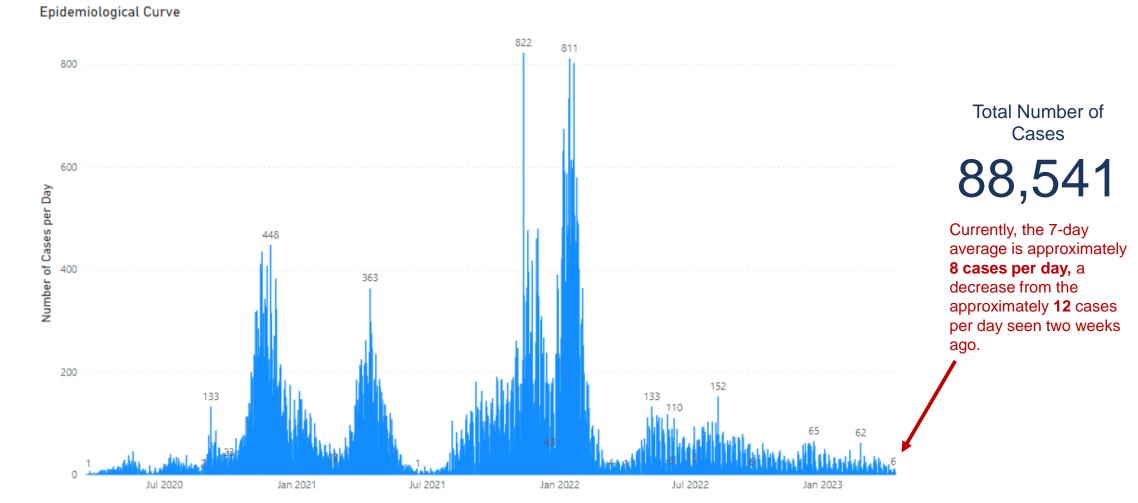
Data through April 5, 2023

Science Roundup

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	

### Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 – April 12, 2023



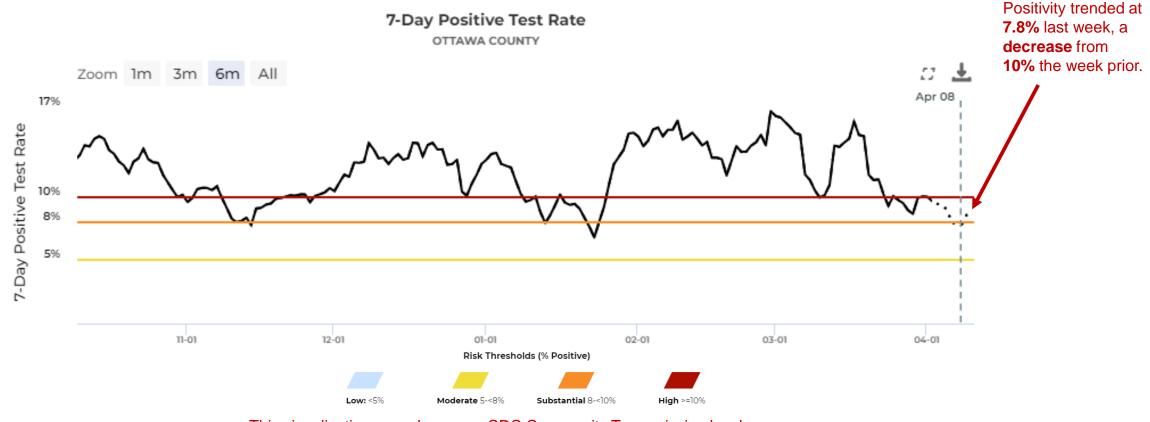
Notes: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in an artificially lower number of cases. Additionally, On November 12, 2021, MDHHS updated their database resulting in a backlog of cases being reported in one day.

Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	
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## Test Positivity in Ottawa County

COVID-19 Cases by Day, Ottawa County, October 1, 2022 – April 8, 2023



This visualization may change as CDC Community Transmission levels, metrics and/or metric thresholds/goals change.

Note: Testing data and can be found on the <u>MI Safe Start Map</u>. Use of at-home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in an artificially lower number of cases. Source: <u>MI Safe Start Map-Ottawa County</u>

Vaccinations

USA & MI

Children

Spread

Hospitalizations

Variants

Risk Levels

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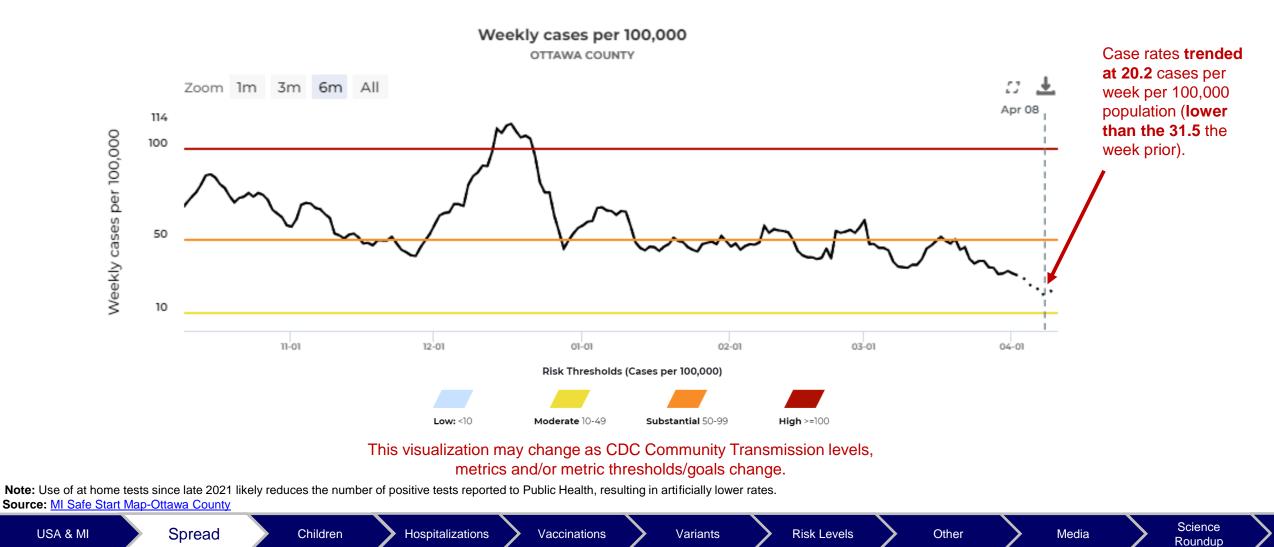
Media

Other

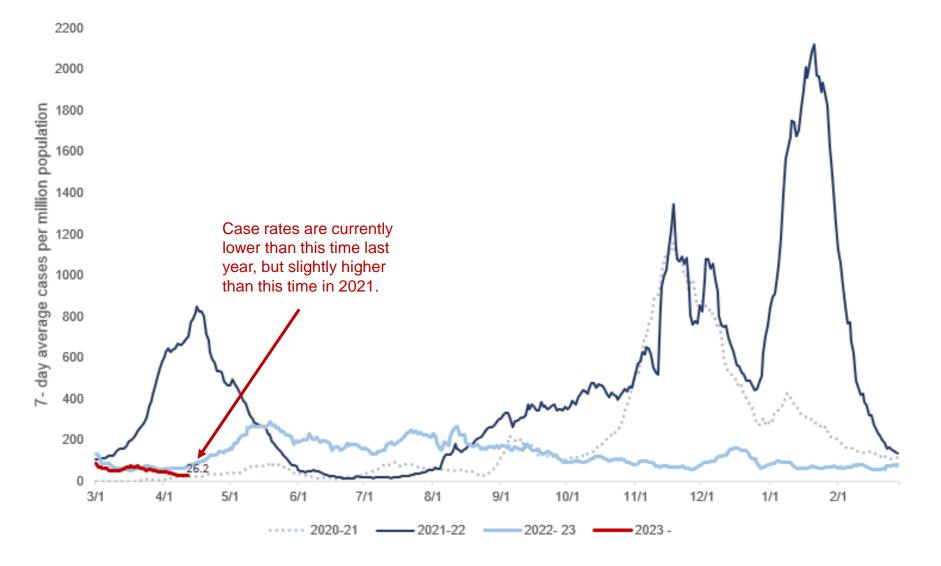
Science Roun<u>dup</u>

### Case Rates in Ottawa County – All Ages

COVID-19 Cases by Day, Ottawa County, October 1, 2022 – April 8, 2023



# Ottawa County Trends – Comparison of Case Rates by Year



Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower case rates. Source: Internal Data

Hospitalizations

Data through April	12, 2023
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Spread Children Vaccinations

Variants

Other

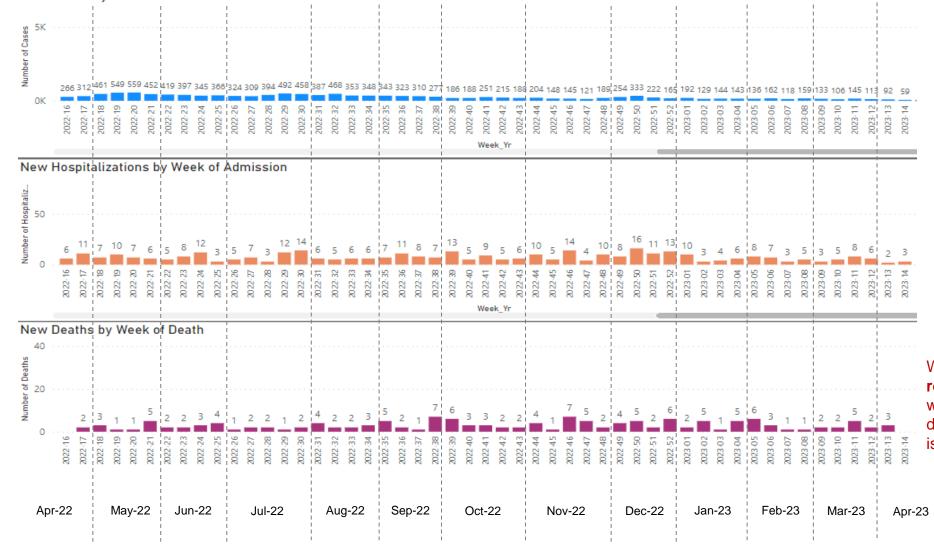
**Risk Levels** 

Media

Science Roundup

#### Ottawa County – Cases, Hospitalizations, & Deaths by Week, All Ages

New Cases By Week of Referral



The weekly number of **cases decreased 36%** from week 13 to week 14.

Weekly COVID-19 **deaths remain low.** The current weekly average number of deaths over the last 4 weeks is about **3 deaths per week.** 

Data as of April 12, 2023

Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower number of cases. Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

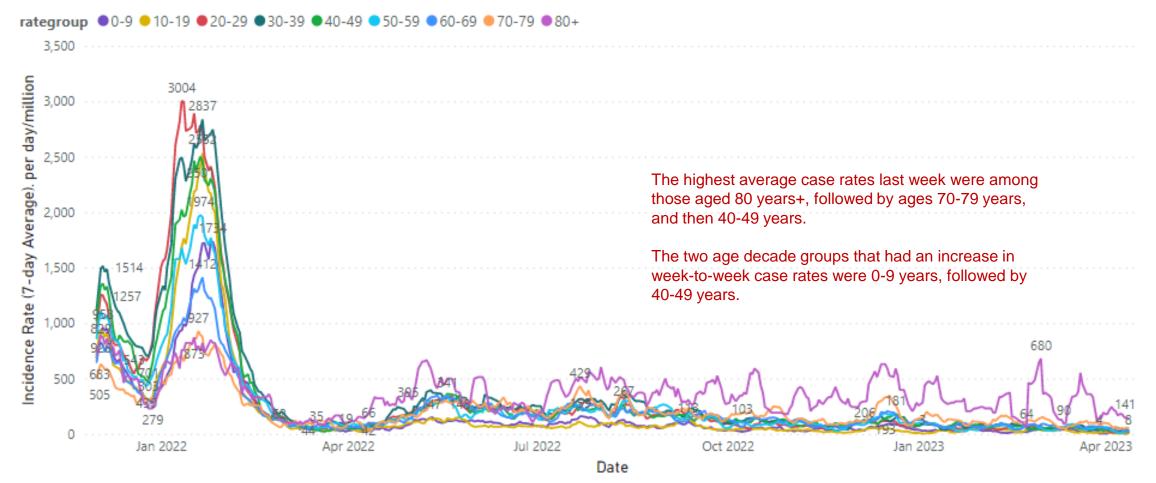
USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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Hospitalization data include all Ottawa County cases that have ever been hospitalized for COVID-19 or COVID-19 related complications. These data do not include Urgent Care visits, Emergency Department visits, or multiple hospitalizations for a single case.

## Ottawa County Case Rate Trends by Age Decade

COVID-19 Case Rates by Age, December 2021 – April 12, 2023

#### Incidence Rate (7-day Average)



 Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower rates.

 Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

 Data as of April 12, 2023

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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## Ottawa County Case Rate Trends by Age Decade

Daily new confirmed and probable cases per day per million by age group (daily average per week) Week 14 (April 2, 2023 – April 8, 2023)

Small numbers of cases in some age categories may cause substantial shifts in weekly case rates and percent change.

For example, four cases among persons 0-17 years of age were reported the week ending April 8, 2023 (slide 18).

Because of these small numbers issues, interpret this data with caution.

This data may be removed in future reports if small numbers issues persist.

Age Decade (Years)	Average Daily Cases	Average Daily Case Rate	One Week % Rate Change	
0-9	0.6	15.5	307%	
10-19	0.1	3.2	-80%	
20-29	0.6	12.6	-64%	
30-39	1.0	27.9	-42%	
40-49	1.4	43.1	11%	
50-59	0.3	8.3	-86%	
60-69	1.3	39.6	-18%	
70-79	1.0	48.4	-50%	
80+	2.0	179.7	0%	

ge groups with highest verage case rates last week: 80+ 70-79 40-49

Age groups with argest week-overveek increase in case rates: 0-9 40-49

Notes: Average daily cases is calculated by summing the weekly total number of cases and dividing by seven. Cases counted in weeks of interest reflect referral date. Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower rates.

Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System; CDC Wonder 2020 population

USA & MI

Spread

Children

Vaccinations

Hospitalizations

Variants

**Risk Levels** 

Other

Media

Data as of April 12, 2023

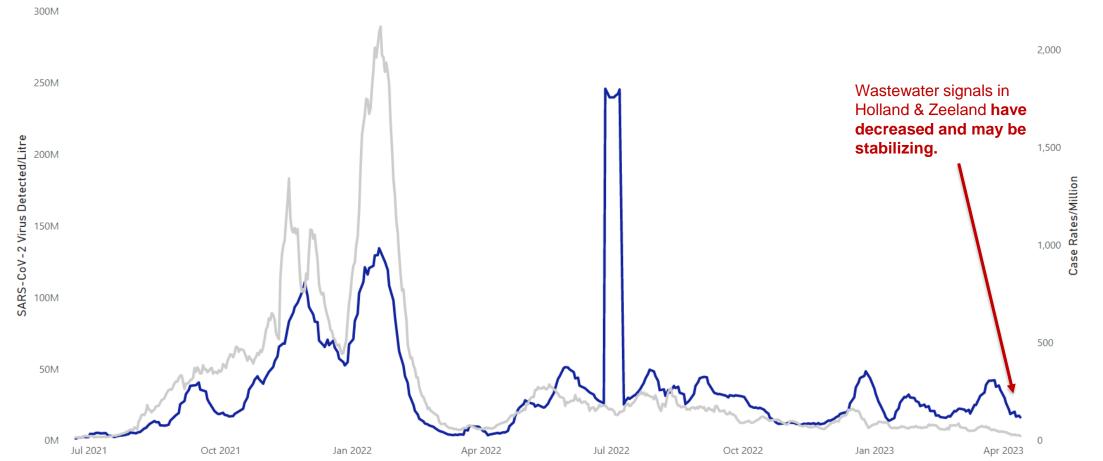
Science

Roundup

#### Holland-Zeeland Wastewater Surveillance

SARS-CoV-2 Virus Detected/Litre by Sample Date With COVID-19 Case Rates/Million by Referral Date (7-Day Averages)

● SARS-CoV-2 Virus Detected/Litre ● Case Rates/Million



Data Interpretation: The blue line on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from treatment plants in Holland & Zeeland. The gray line on the graph represents the 7-day average COVID-19 case rates/million for all of Ottawa County by referral date.

**Notes:** Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Display of wastewater data may change as analytical methods are refined. A data point from Zeeland collected June 23, 2022, was removed from data analysis as an extreme outlier.

Source: Hope College Global Water Research Institute as part of the MDHHS SEWER-Network, Aaron Best, Ph.D. (<u>best@hope.edu</u>) Additional Information: <u>Michigan COVID-19 Wastewater Surveillance Pilot Project (arcgis.com)</u>, <u>Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project (SWEEP) (michigan.gov)</u>

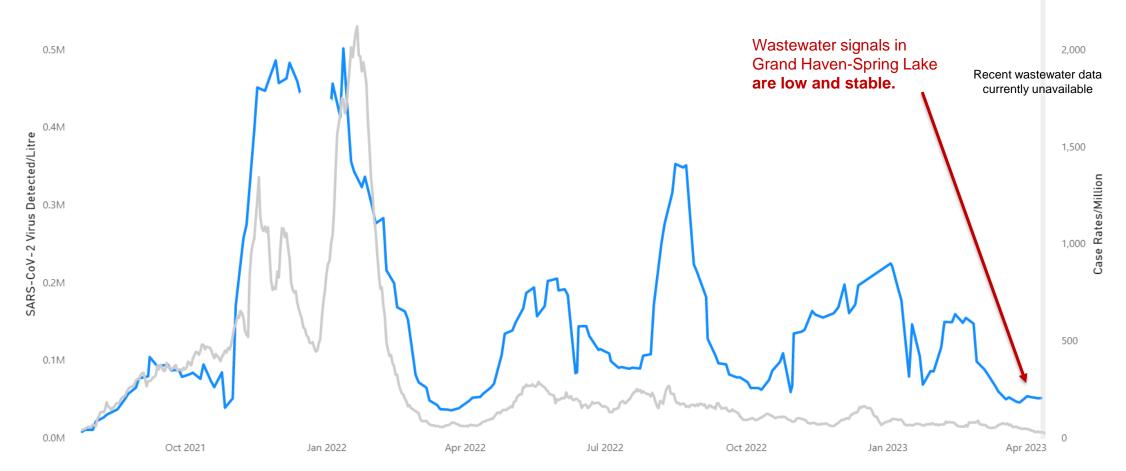
Data through April 13, 2023

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	
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# Grand Haven-Spring Lake Wastewater Surveillance

SARS-CoV-2 Virus Detected/Litre by Sample Date With COVID-19 Case Rates/Million by Referral Date (7-Day Averages)

● SARS-CoV-2 Virus Detected/Litre ● Case Rates/Million



**Data Interpretation:** The **blue line** on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from the treatment plant in Grand Haven-Spring Lake. The gray line on the graph represents the 7-day average COVID-19 case rates/million for all of Ottawa County by referral date.

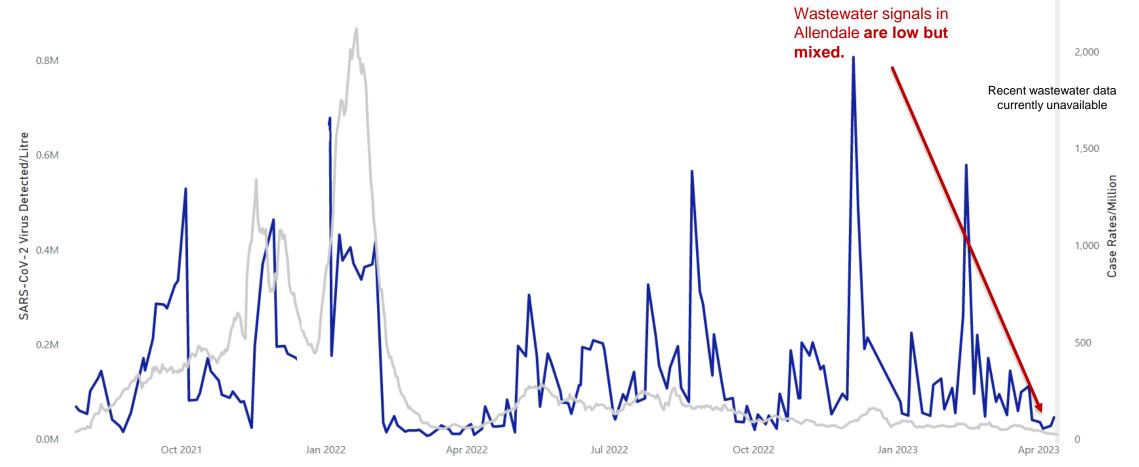
Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Display of wastewater data may change as analytical methods are refined. Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Richard Rediske, Ph.D. (redisker@gvsu.edu) Additional Information: Michigan COVID-19 Wastewater Surveillance Pilot Project (arcgis.com), Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project (SWEEP) (michigan.gov) Data through April 11, 2023



### Allendale Wastewater Surveillance

SARS-CoV-2 Virus Detected/Litre by Sample Date With COVID-19 Case Rates/Million by Referral Date (7-Day Averages)

• SARS-CoV-2 Virus Detected/Litre • Case Rates/Million



Data Interpretation: The blue line on the graph shows the 7-day average levels of SARS-CoV-2 virus (N2 markers) detected in wastewater sampled from the treatment plant in Allendale. The gray line on the graph represents the 7-day average COVID-19 case rates/million for all of Ottawa County by referral date.

Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Display of wastewater data may change as analytical methods are refined. Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Richard Rediske, Ph.D. (redisker@gvsu.edu) Additional Information: Michigan COVID-19 Wastewater Surveillance Pilot Project (arcgis.com), Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project (SWEEP) (michigan.gov) Data through April 11, 2023



# Ottawa County Weekly Case Counts and % Change, by Age

	Adult	s (18+)	Children (	0-17 years)	Τα	otal	
Week Ending	Number	% Change from Previous Week	Number	% Change from Previous Week	Number	% Change from Previous Week	
28-Jan-23	124	-6%	19	58%	143	-1%	
4-Feb-23	120	-3%	16	-16%	136	-5%	
11-Feb-23	154	28%	8	-50%	162	19%	
18-Feb-23	112	-27%	6	-25%	118	-27%	Weekly case counts
25-Feb-23	144	29%	15	150%	159	35%	among children
4-Mar-23	119	-17%	14	-7%	133	-16%	decreased 20% last
11-Mar-23	87	-27%	19	36%	106	-20%	week, and cases in
18-Mar-23	135	55%	10	-47%	145	37%	adults decreased 37%.
25-Mar-23	108	-20%	5	-50%	113	-22%	
1-Apr-23	87	-19%	5	0%	92	-19%	
8-Apr-23	55	-37%	4	-20%	59	-36%	
		Advelto					-

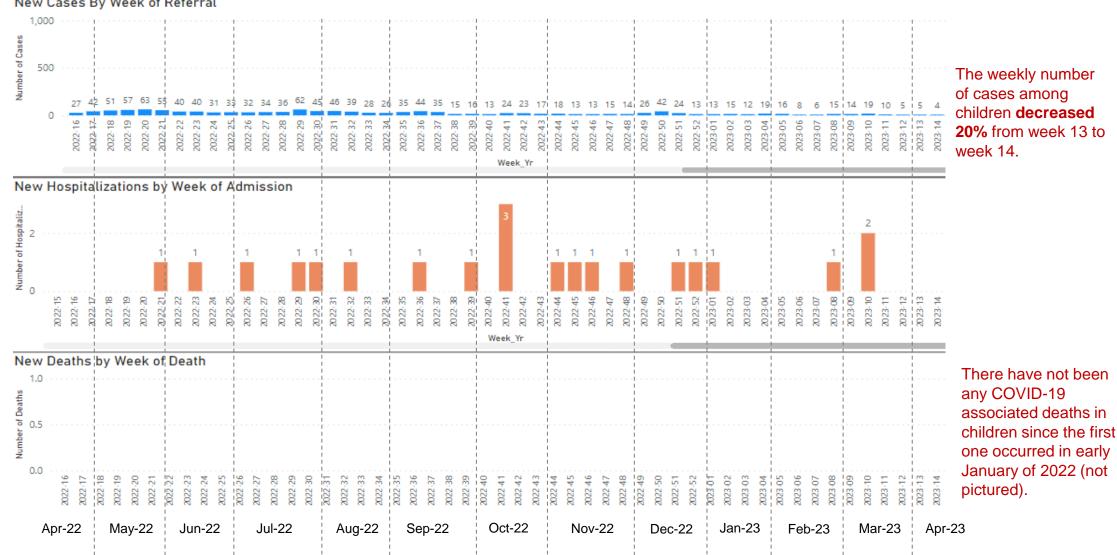
Adults

Children

**Note:** Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in an artificially lower number of cases. **Source:** Michigan Department of Health and Human Services, Michigan Disease Surveillance System

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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#### Ottawa County – Cases, Hospitalizations, & Deaths by Week Among Children (0-17 years)



Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case counts. Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

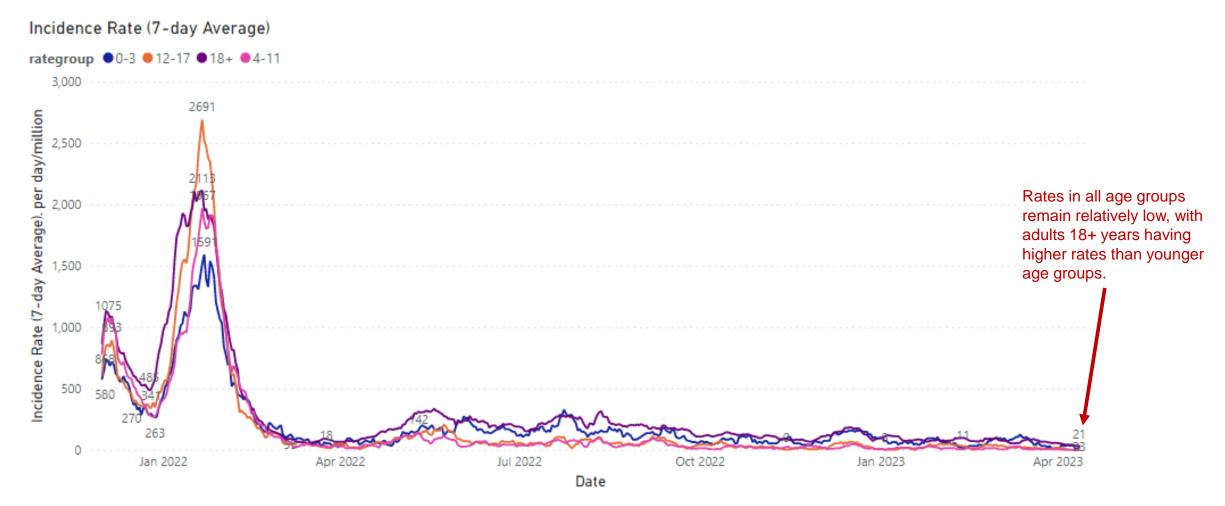
Science USA & MI Children **Risk Levels** Other Media Spread Hospitalizations Vaccinations Variants Roundup

New Cases By Week of Referral

Hospitalization data include all Ottawa County cases that have ever been hospitalized for COVID-19 or COVID-19 related complications. These data do not include Urgent Care visits Emergency Department visits, or multiple hospitalizations for a single case.

# Ottawa County – Case Rate Trends by Age

COVID-19 Case Rates by Age, includes School-Aged, December 2021 – April 12, 2023



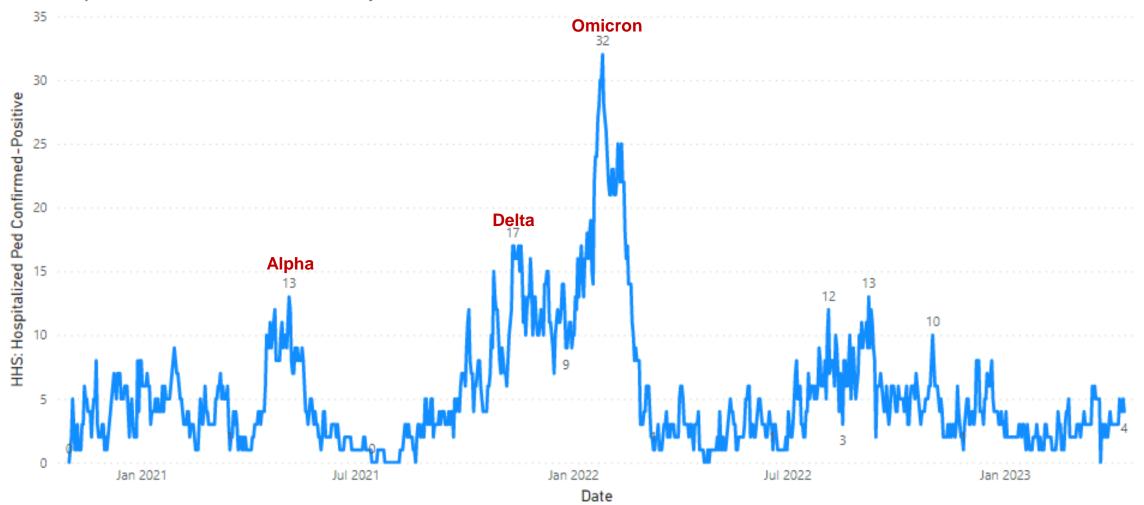
Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially deflated case rates. Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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Data as of April 12, 2023

# Daily Hospital Pediatric Census – West Michigan

HHS: Hospitalized Ped Confirmed-Positive by Date

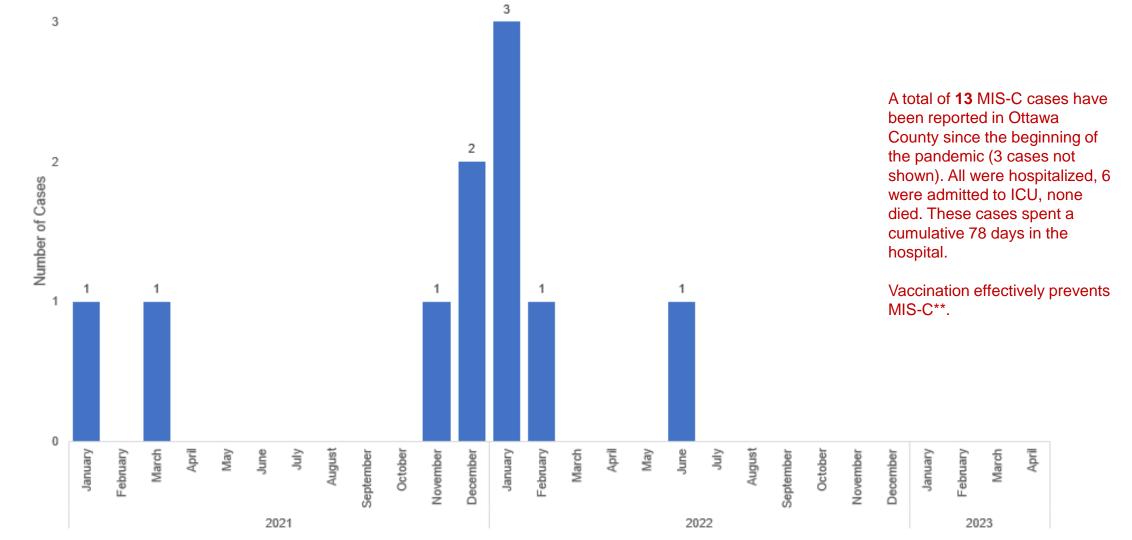


**Note:** Data above includes persons younger than 18 years of age with confirmed COVID-19 hospitalized at West Michigan hospitals. Patients may be listed in more than one day. Data may change as information is updated. Includes patients that reside in counties across the region, including Ottawa County.

Data through April 12, 2023

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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### Ottawa County MIS-C\* Cases by Month



Notes: Includes confirmed and probable cases.

Spread

Children

\*MIS-C is a rare but serious condition affecting children, associated with recent COVID-19 infection. For more details on MIS-C please visit: <u>https://www.cdc.gov/mis/index.html</u>

Vaccinations

Variants

**Risk Levels** 

Other

Hospitalizations

\*\*Sources: MMWR & The Lancet

USA & MI

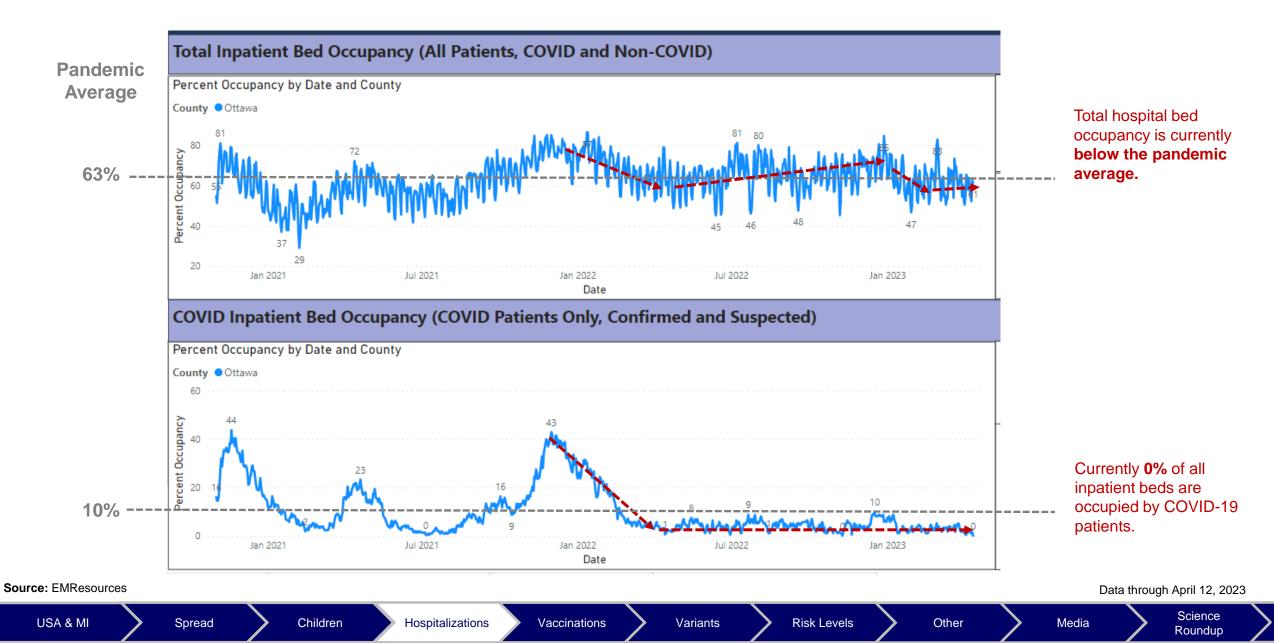
Data	through	April	12,	2023

Media

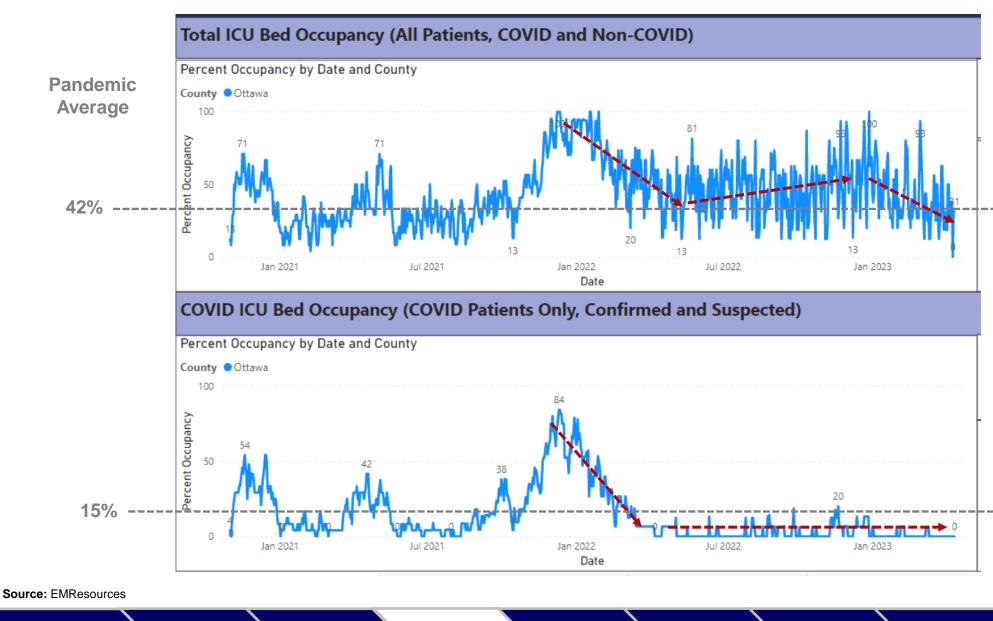
Science

Roundup

# Ottawa County Hospital Capacity – All Beds



# Ottawa County Hospital Capacity – ICU Beds



Total ICU bed occupancy varies considerably by day. Lately, ICU bed occupancy is below the pandemic average

The proportion of ICU beds occupied by COVID-19 patients is below the pandemic average. Currently, **0%** of ICU beds occupied by COVID-19 patients.

Data through April 12, 2023



Vaccinations

Variants

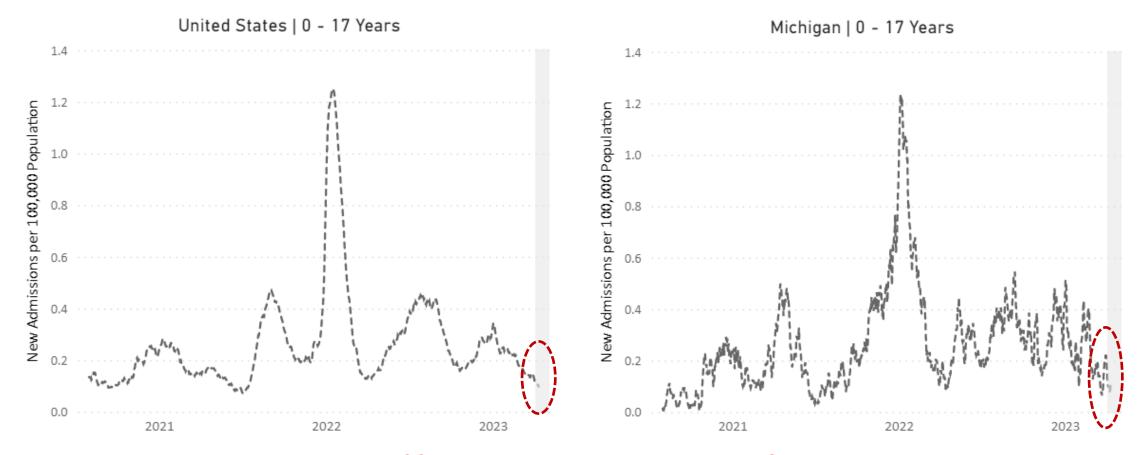
**Risk Levels** 

Other

Media

Science Roundup

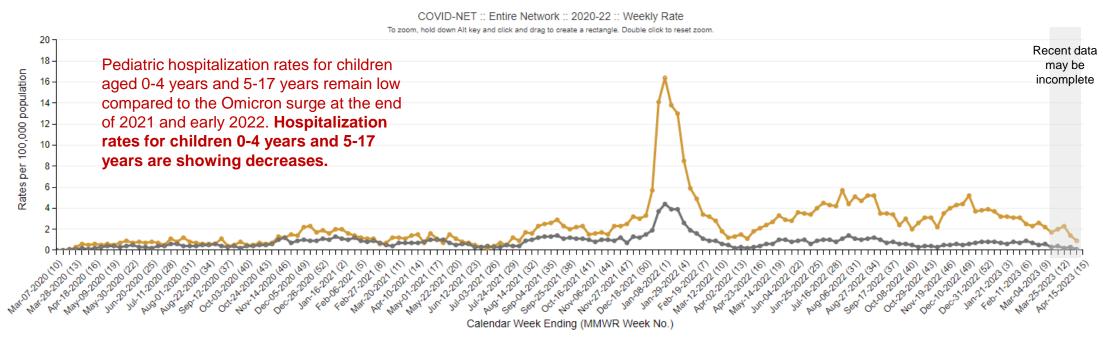
### Pediatric Hospitalization Rates – USA, Michigan



Pediatric COVID-19 hospitalization rates across the US and Michigan are relatively low.



# Pediatric Hospitalization Rates by Age Group – USA



— 0-4 yr — 5-17 yr

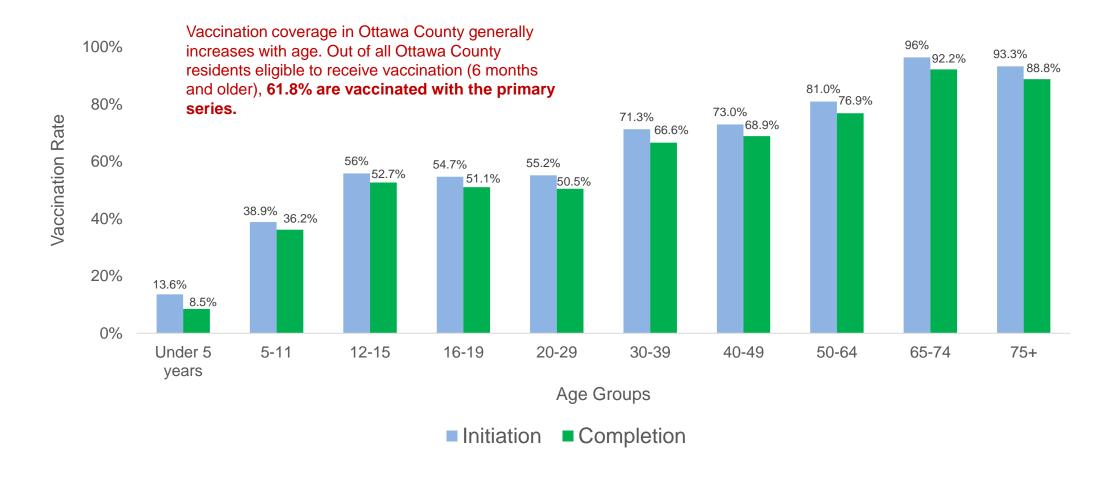
The Coronavirus Disease 2019 (COVID-19)-Associated Hospitalization Surveillance Network (COVID-NET) hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. Lag for COVID-NET case identification and reporting might increase around holidays or during periods of increased hospital utilization. As data are received each week, prior case counts and rates are updated accordingly. COVID-NET conducts population-based surveillance for laboratory-confirmed COVID-19-associated hospitalizations in children (less than 18 years of age) and adults. COVID-NET covers nearly 100 counties in the 10 Emerging Infections Program (EIP) states (CA, CO, CT, GA, MD, MN, NY, OR, TN) and four Influenza Hospitalization Surveillance Project (IHSP) states (IA [March 2020-May 2022], MI, OH, and UT). Incidence rates (per 100,000 population) are calculated using the National Center for Health Statistics' (NCHS) vintage 2020 bridged-race postcensal population estimates for the counties included in the surveillance catchment area. The rates provided are likely to be underestimated as COVID-19 hospitalizations might be missed due to test availability and provider or facility testing practices. The NCHS bridged-race data used for the denominator for race data provides population data for children ages 0–1 year. To calculate rates of hospitalization among children ages <6 months and 6 months to <12 months, the population for children ages 0–1 year is halved.

Starting MMWR week 22 of 2022, IA data are removed from weekly rate calculations.



# Vaccination Coverage by Age (Primary Series Only)

120%

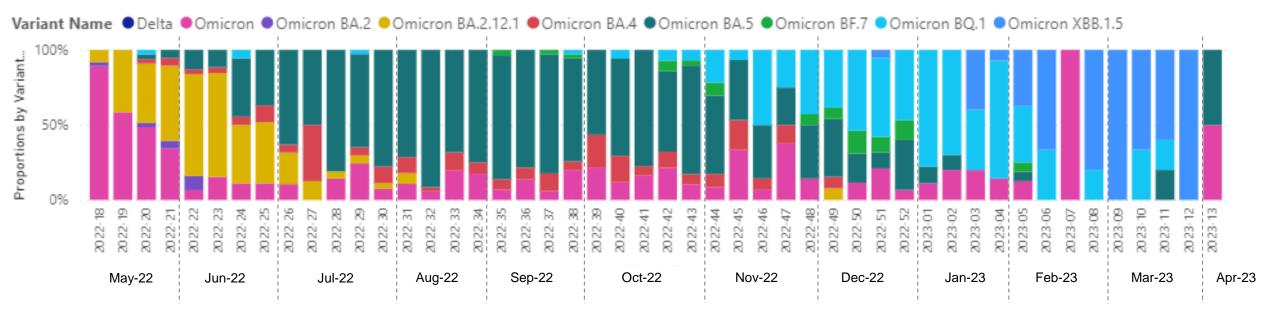


**Notes:** Completion is the percentage of people receiving at least 2 doses of Pfizer or Moderna or 1 dose of J&J. NovaVax doses are not included here. **Source:** https://www.michigan.gov/coronavirus/resources/covid-19-vaccine/covid-19-dashboard

Source: <u>https://www.m</u>	ichigan.gov/coronavirus	/resources/covid-19-vac	ccine/covid-19-dashboa	<u>rd</u>				Data	through April 12, 2023
USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup

# Variants – Clinical Samples from Ottawa County Residents

#### Variant Proportions by Week



By the end of July 2021 through early December 2021, all clinical samples\* tested were identified as the **Delta** variant (data not displayed here).

In mid-December 2021, the first **Omicron** positive sample was collected in an Ottawa County resident (data not displayed here), and **Omicron** continues to be detected into 2023, with more recent additions of the **Omicron subvariants** such as BQ.1 and XBB.1.5. Additional **Omicron subvariants** may be detected in clinical samples in the months ahead.

\* Swabs from Ottawa County residents that tested positive for COVID-19 by PCR; only a small proportion of all COVID-19 positive tests are tested for variants. Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

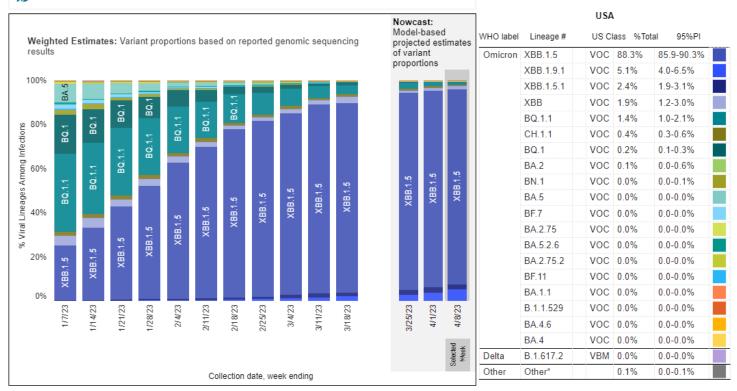
USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup
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### Variants – Clinical Samples from Across the USA

Weighted and Nowcast Estimates in United States for Weeks of 1/1/2023 – 4/8/2023

Nowcast Estimates in United States for 4/2/2023 - 4/8/2023

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



The **Omicron** variant and it's subvariants are estimated to account for more than 99% of all clinical samples collected in the United States the week ending April 8, 2023.

The BQ.1.1 subvariant has been supplanted by other Omicron subvariants, predominately XBB.1.5.

Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.

# BA.1, BA.3 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. Except BA.2.12.1, BA.2.75, XBB and their sublineages, BA.2 sublineages are aggregated with BA.2. Except BA.2.75.2, CH.1.1 and BN.1, BA.2.75 sublineages are aggregated with BA.2.75. 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. Except XBB.1.9.1, XBB.1.5 and its sublineages, sublineages of XBB are aggregated to XBB. Except XBB.1.5.1, sublineages of XBB.1.5 are aggregated to XBB.1.5. For all the other lineages listed, their sublineages are aggregated to the listed parental lineages respectively. Previously, XBB.1.9.1 was aggregated to XBB. Lineages BA.2.75.2. XBB. XBB.1.5. XBB.1.5.1. XBB.1.9.1. BN.1. BA.4.6. BF.7. BF.11. BA.5.2.6 and BQ.1.1 contain the spike substitution R346T

#### Source: CDC: https://covid.cdc.gov/covid-data-tracker/#variant-proportions



# **COVID-19 Community Levels**

#### TABLE 1. COVID-19 Community Levels, Indicators, and Thresholds

New COVID-19 Cases Per 100,000 people in the past 7 days	Indicators	Low	Medium	High
	New COVID-19 admissions per 100,000 population (7-day total)	<10.0	10.0-19.9	≥20.0
Fewer than 200	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
	New COVID-19 admissions per 100,000 population (7-day total)	NA	<10.0	≥10.0
200 or more	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	NA	<10.0%	≥10.0%

The COVID-19 community level is determined by the higher of the *new admissions* and *inpatient beds occupied* metrics, based on the current level of *new cases per 100,000 population in the past 7 days*.

Please note that the Community Levels indicators for hospital admission and occupancy shown here apply to COVID-19 patients only.

While Ottawa County COVID-19 admissions and hospital occupancy have remained <10% for many months, reducing infections and preventing hospitalizations for/with COVID-19 is important to ensure capacity in local hospitals that may face substantial occupancy challenges from RSV, influenza, and other conditions.

Source: https://www.cdc.gov/coronavirus/2019-ncov/science/community-levels.html

Spread

USA & MI

& MI

Children

Vaccinations

Hospitalizations

Variants Ris

Risk Levels

Media

Other

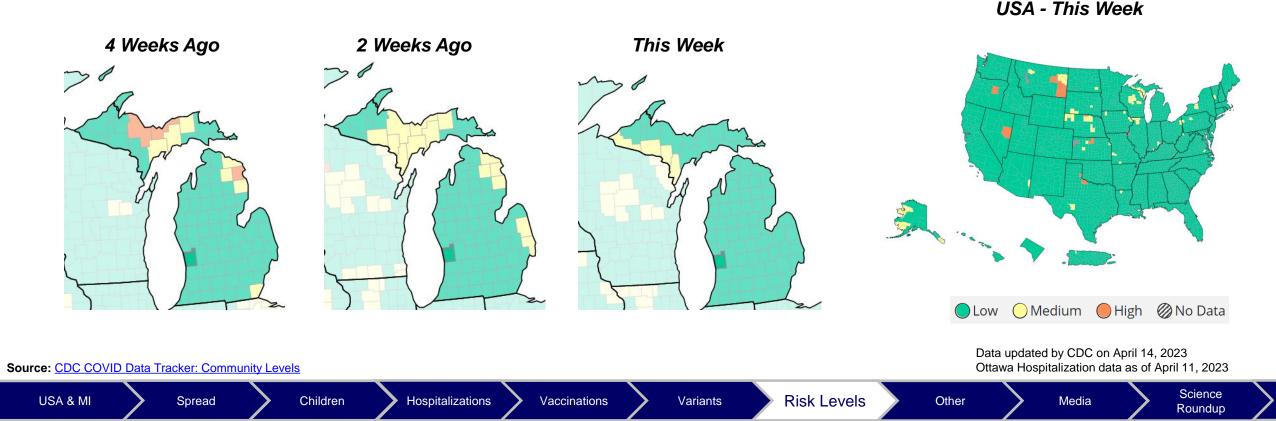
Science Roundup

# CDC Community Levels – Ottawa County

- Current Community Level in Ottawa LOW
  - Ottawa and Michigan's CDC Community Levels can be viewed on the <u>CDC website</u> and on the <u>MI Safe</u> <u>Start Map</u>.

Current Data:

- New COVID-19 Hospital Admissions (per 100K pop 7-day total) = 1.5
- Percent of staffed inpatient beds in use by patients with COVID-19 (7-day average) = 1.3%



# **COVID-19 Community Transmission Levels**

#### Determining Transmission Risk

X

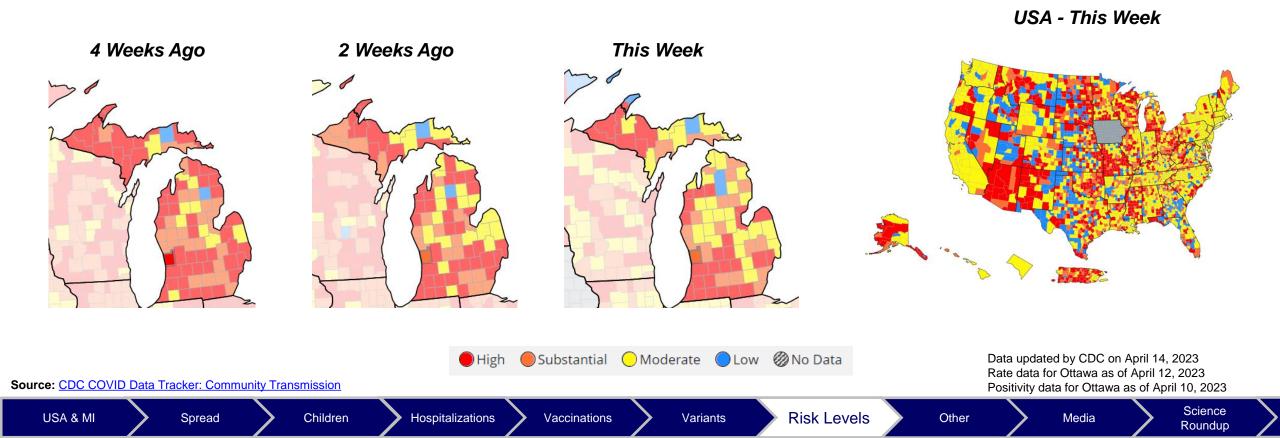
If the two indicators suggest different transmission levels, the higher level is selected Moderate Substantial High Low New cases per 100,000 <10 10-49.99 50-99.99 ≥100 persons in the past 7 days\* Percentage of positive <5% 5-7.99% 8-9.99% ≥10.0% NAATs tests during the past 7 days\*\*

Source: https://covid.cdc.gov/covid-data-tracker/#county-view?list\_select\_state=all\_states&data-type=Risk

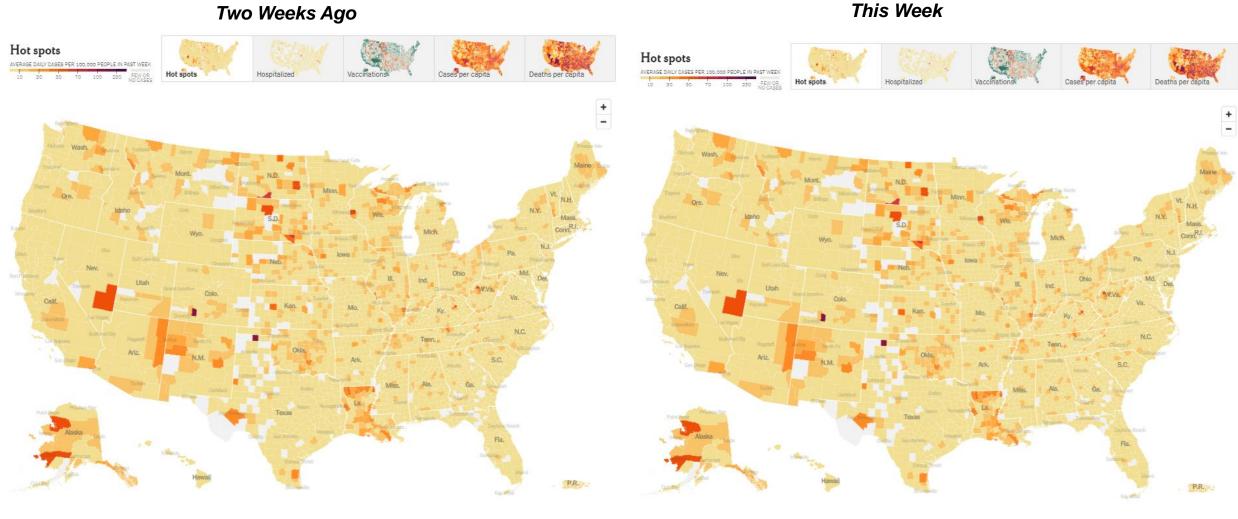
USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other	Media	Science Roundup	>
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# CDC Community Transmission Levels – Ottawa County

- Current Community Transmission Level in Ottawa SUBSTANTIAL
  - Ottawa and Michigan's CDC Community Transmission Levels can be viewed on <u>CDC's website</u> and on the <u>MI Safe Start Map</u>.
- Current Data:
  - Case Rate (per 100k pop 7-day total) = 17.5
  - Percent Test Positivity (last 7 days) = 9.2%



# COVID-19 Case Rates by County Across the US



Case rates across the nation appear to be stable and possibly declining, with regional variability.

Source: https://www.nytimes.com/interactive/2021/us/covid-cases.html

USA & MI	Spread	Children	Hospitalizations	Vaccinations	Variants	Risk Levels	Other
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Accessed April 13, 2023

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# COVID-19 Hospitalization Rates by County Across the US

This Week Two Weeks Ago **Current hospitalizations Current hospitalizations** COVID-19 PATIENTS PER 100,000 PEOPLE COVID-19 PATIENTS PER 100,000 PEOPLE NÓ DATA Hot spots Hospitalized Hot spots Hospitalized 20 30 40 50 60 70 80 P.R. Hospitalization rates remain relatively low across most of the nation. Source: https://www.nytimes.com/interactive/2021/us/covid-cases.html Accessed April 13, 2023 Science Other USA & MI Spread Children Hospitalizations Vaccinations Variants **Risk Levels** Media Roundup

# **COVID-19 News Headlines**

# Biden signs bill ending Covid-19 national emergency

https://www.cnn.com/2023/04/10/politics/covid-19-national-emergency-endbiden/index.html

#### Washington to end distribution of free at-home COVID-19 tests May 11

https://komonews.com/news/local/coronavirus-covid-19-pandemic-free-athome-tests-washington-department-health-public-emergency-federalcenters-for-disease-control-prevention-say-yes-covid-test

# Global COVID markers fall, though cases rising in several countries

https://www.cidrap.umn.edu/covid-19/global-covid-markers-fall-though-casesrising-several-countries

# Michigan's COVID levels return to no high-risk counties

Other

https://www.mlive.com/public-interest/2023/03/michigans-covid-levels-returnto-no-high-risk-counties.html

Children

Vaccinations

Hospitalizations

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# Science Roundup

Ventilation Improvements Among K–12 Public School Districts — United States, August–December 2022 <a href="https://www.cdc.gov/mmwr/volumes/72/wr/mm7214a4.htm">https://www.cdc.gov/mmwr/volumes/72/wr/mm7214a4.htm</a>	A study evaluating public school districts in the United States found that there was not one ventilation strategy that was adopted by more than 51% of districts, and that ventilation improvements varied by geography and poverty levels. High-poverty school districts reported the highest percentage of strategies implemented.
Transmissible SARS-CoV-2 variants with resistance to clinical protease inhibitors	The findings of this study assessing SARS-CoV-2 variants and their resistance to key antiviral drugs, supports the continuous monitoring of resistance variants and the development of other antiviral drugs with different mechanisms and resistance profiles for the treatment of COVID-19.
Severe Maternal Morbidity and Mortality of Pregnant Patients With COVID-19 Infection During the Early Pandemic Period in the US https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2803485	This national-level analysis of pregnant patients during the early pandemic, found the risk of maternal adverse outcomes to be greater among patients with COVID-19 at delivery compared to those without.
Health Care Access and Affordability Among US Adults Aged 18 to 64 Years With Self-reported Post-COVID-19 Condition	This large study including US adults aged 18 to 64 years, found that individuals with post-COVID-19 condition were more likely to experience barriers obtaining and paying for health care compared to other individuals.

Spread

Vaccinations

Hospitalizations

Variants

Risk Levels

Other

Media

Science Roundup