

Ottawa County COVID-19 Epidemiology

April 28, 2023

Data as of April 22, 2023, unless otherwise indicated.

Executive Summary

- **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 7.3%, from 9.8% two weeks ago.
 - Weekly case counts **increased** 17% (-16% two weeks ago), from 58 two weeks ago to 68 last week.
 - Cases among children **increased** 300% (-75% two weeks ago), from 1 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, 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 **MODERATE** as of April 28, 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.

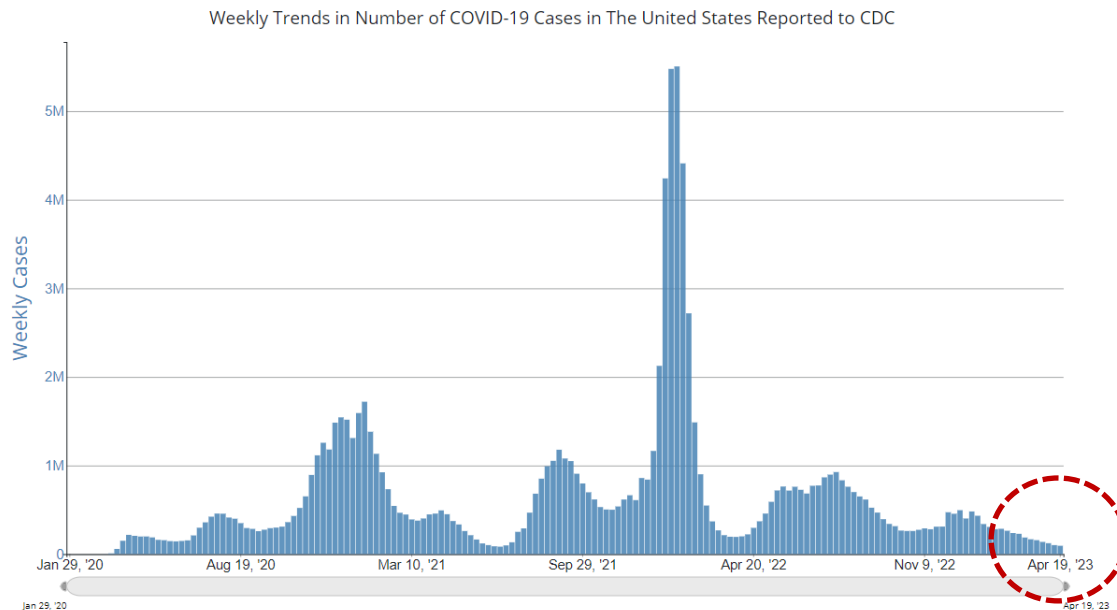
Ottawa County Metrics by Week

Metric	Goal	Week Ending				
		25-Mar-23	1-Apr-23	8-Apr-23	15-Apr-23	22-Apr-23
Positivity (All Ages)	NA	10.1%	10.0%	7.8%	9.8%	7.3%
Weekly Cases (All Ages)	<592	114	92	69	58	68
Weekly Cases in Children (0-17 years of age)	NA	6	5	4	1	4
Total Deaths (All Ages)	0	3	3	1	1	0
CDC COVID-19 Community Level	Low	Low	Low	Low	Low	Low

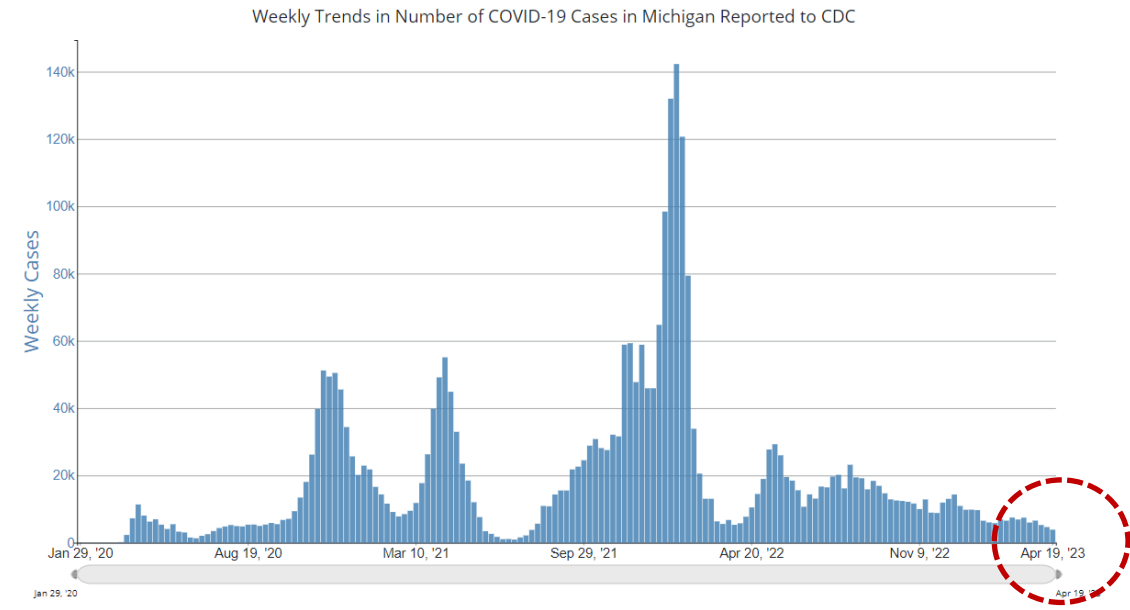
Please note that with updated CDC Community Levels, metrics and/or metric thresholds/goals may change.

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 19, 2023

USA & MI

Spread

Children

Hospitalizations

Vaccinations

Variants

Risk Levels

Other

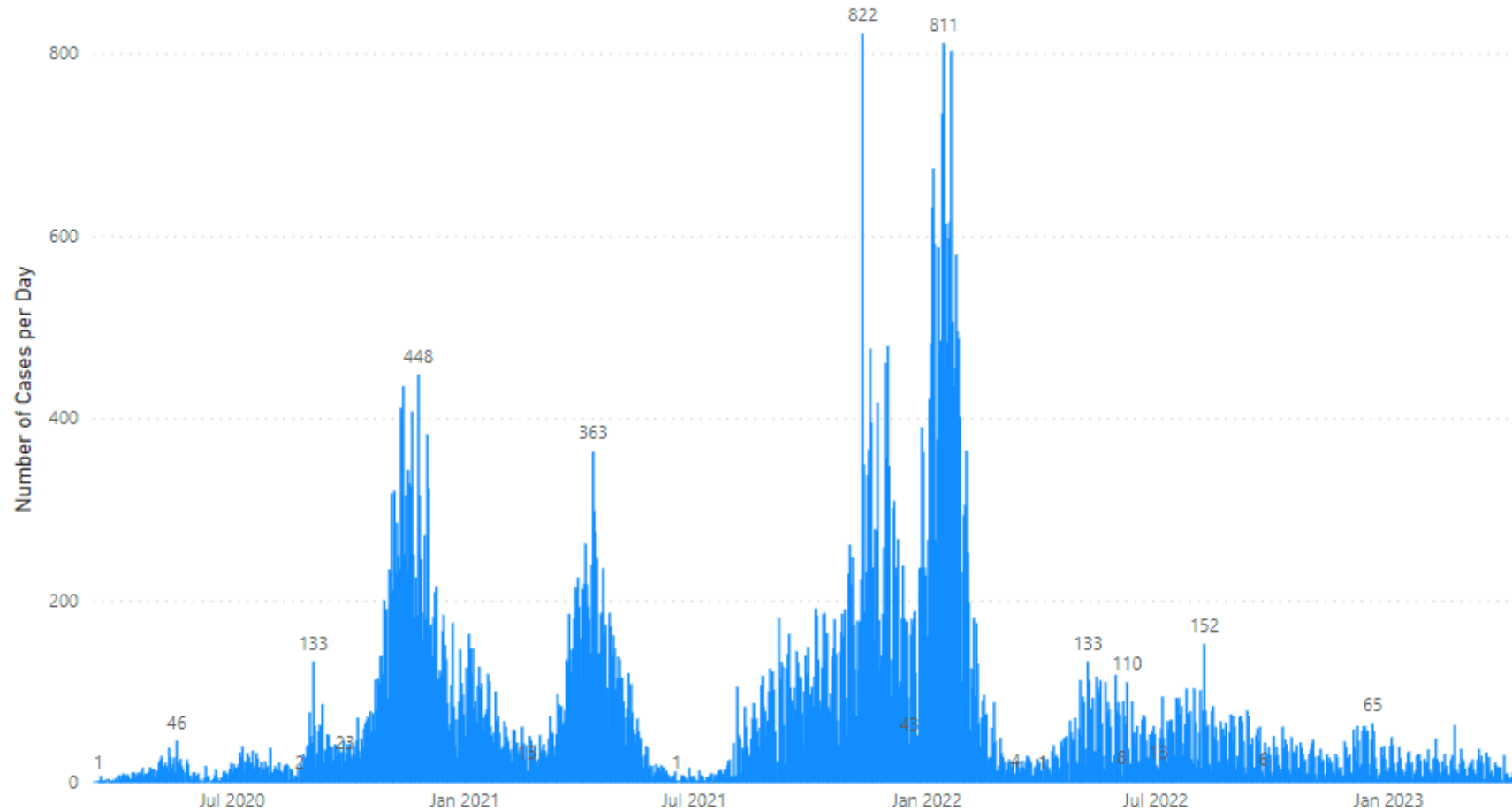
Media

Science Roundup

Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 – April 26, 2023

Epidemiological Curve



Total Number of Cases
88,693

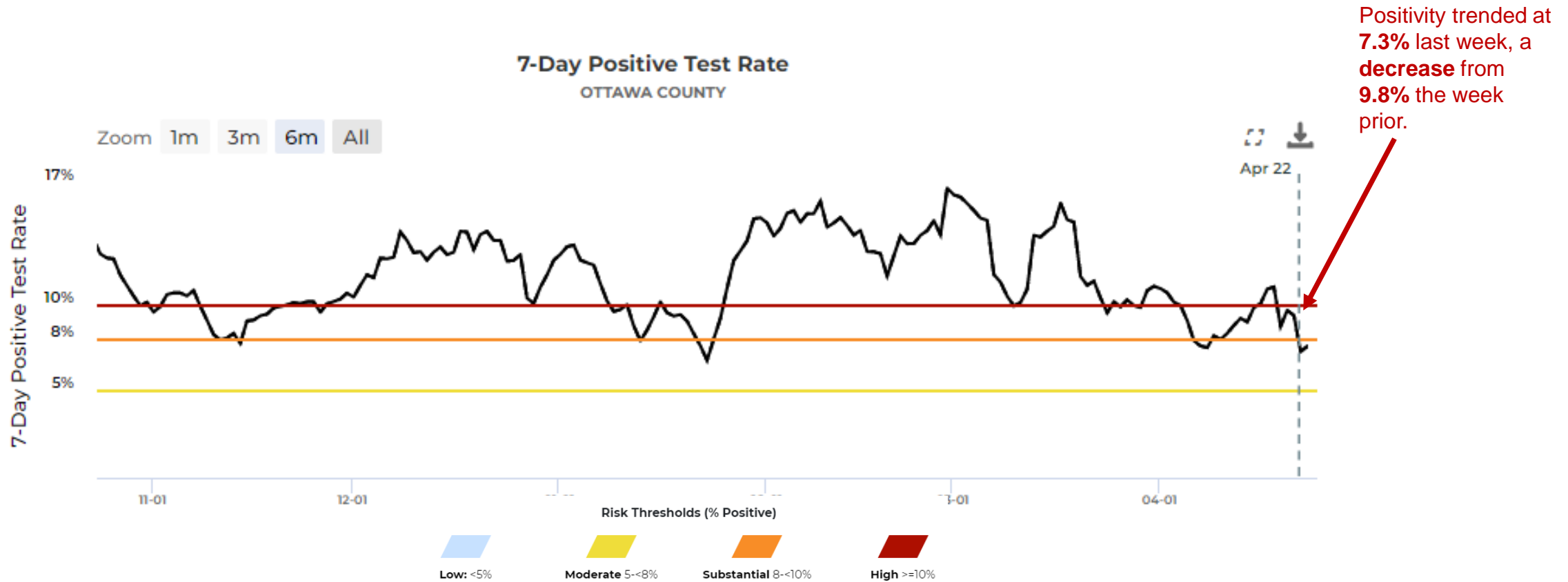
Currently, the 7-day average is approximately **9 cases per day**, an increase from the approximately **8 cases per day** seen two weeks ago.

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

Test Positivity in Ottawa County

COVID-19 Cases by Day, Ottawa County, October 1, 2022 – April 22, 2023



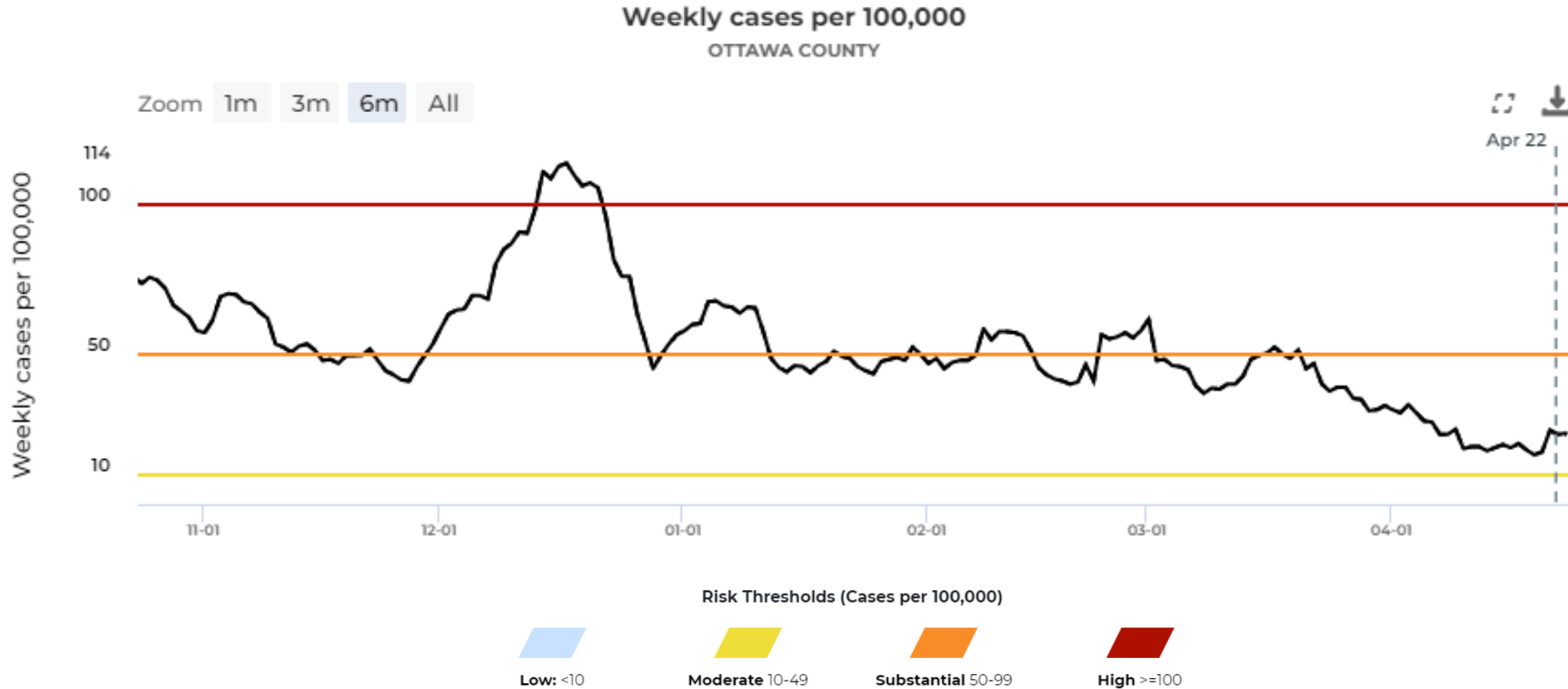
This visualization may change as CDC Community Transmission levels, metrics and/or metric thresholds/goals change.

Note: Testing data and can be found on the [MI Safe Start Map](#). 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: [MI Safe Start Map-Ottawa County](#)

Case Rates in Ottawa County – All Ages

COVID-19 Cases by Day, Ottawa County, October 1, 2022 – April 22, 2023



Case rates trended at 23.3 cases per week per 100,000 population (higher than the 19.9 the week prior).

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

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: [MI Safe Start Map-Ottawa County](#)

Ottawa County Trends – Comparison of Case Rates by Year



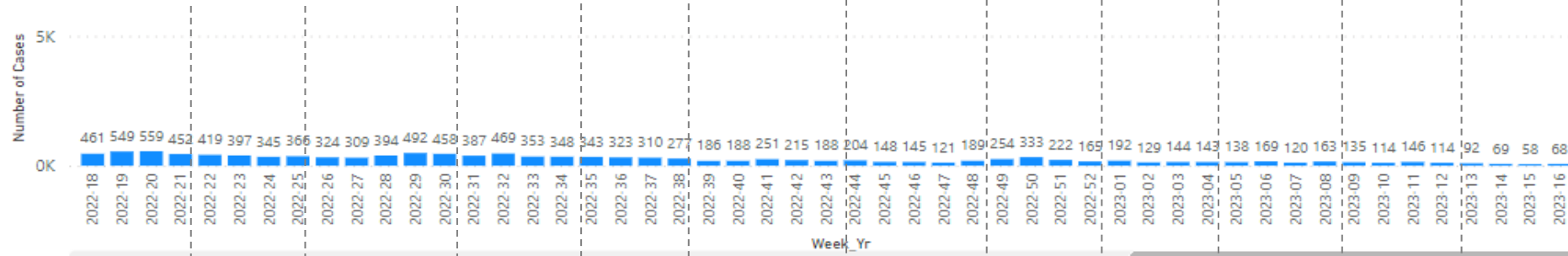
Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower case rates.

Source: Internal Data

Data through April 26, 2023

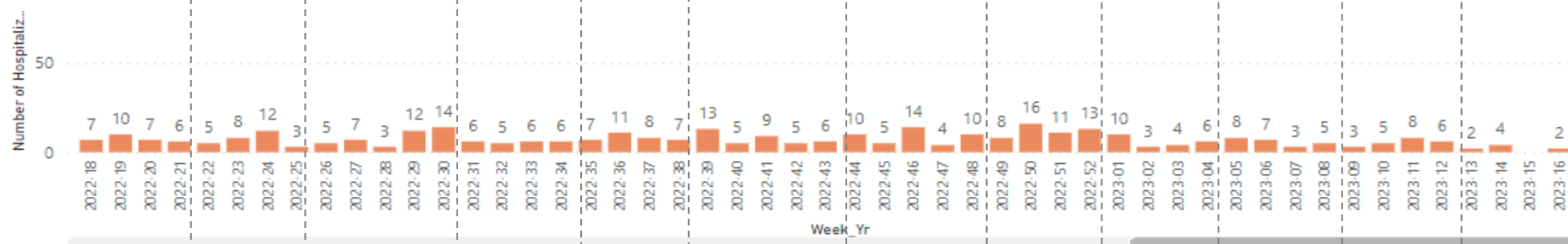
Ottawa County – Cases, Hospitalizations, & Deaths by Week, All Ages

New Cases By Week of Referral

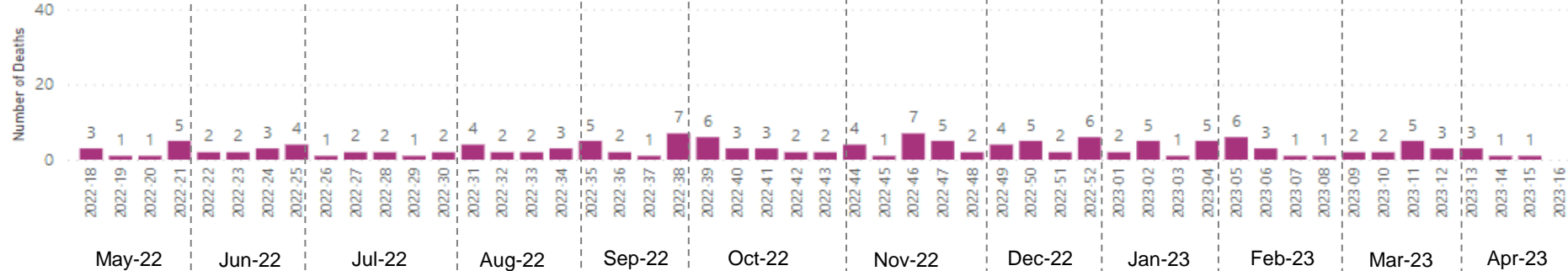


The weekly number of cases increased 17% from week 15 to week 16.

New Hospitalizations by Week of Admission



New Deaths by Week of Death



Weekly COVID-19 deaths remain low. The current weekly average number of deaths over the last 4 weeks is about 1 death per week.

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.

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

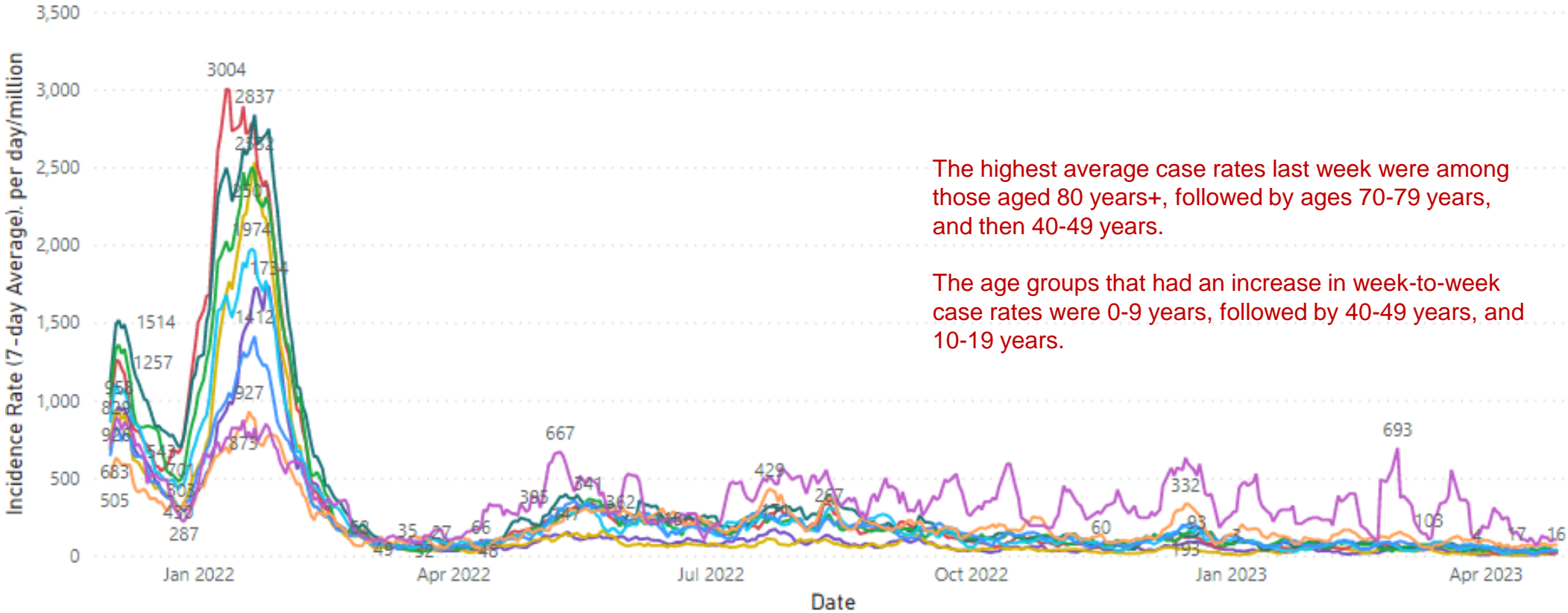
Data as of April 26, 2023

Ottawa County Case Rate Trends by Age Decade

COVID-19 Case Rates by Age, December 2021 – April 26, 2023

Incidence Rate (7-day Average)

rategroup ● 0-9 ● 10-19 ● 20-29 ● 30-39 ● 40-49 ● 50-59 ● 60-69 ● 70-79 ● 80+



The highest average case rates last week were among those aged 80 years+, followed by ages 70-79 years, and then 40-49 years.

The age groups that had an increase in week-to-week case rates were 0-9 years, followed by 40-49 years, and 10-19 years.

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 26, 2023

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 16 (April 16, 2023 – April 22, 2023)

Age Decade (Years)	Average Daily Cases	Average Daily Case Rate	One Week % Rate Change
0-9	0.4	11.7	207%
10-19	0.4	9.7	48%
20-29	1.0	22.1	-12%
30-39	1.4	39.9	0%
40-49	1.7	51.5	141%
50-59	1.0	28.7	-12%
60-69	0.9	26.4	0%
70-79	1.6	76.0	22%
80+	1.3	115.9	13%

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 22, 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 groups with highest average case rates last week:

1. 80+
2. 70-79
3. 40-49

Age groups with largest week-over-week increase in case rates:

1. 0-9
2. 40-49
3. 10-19

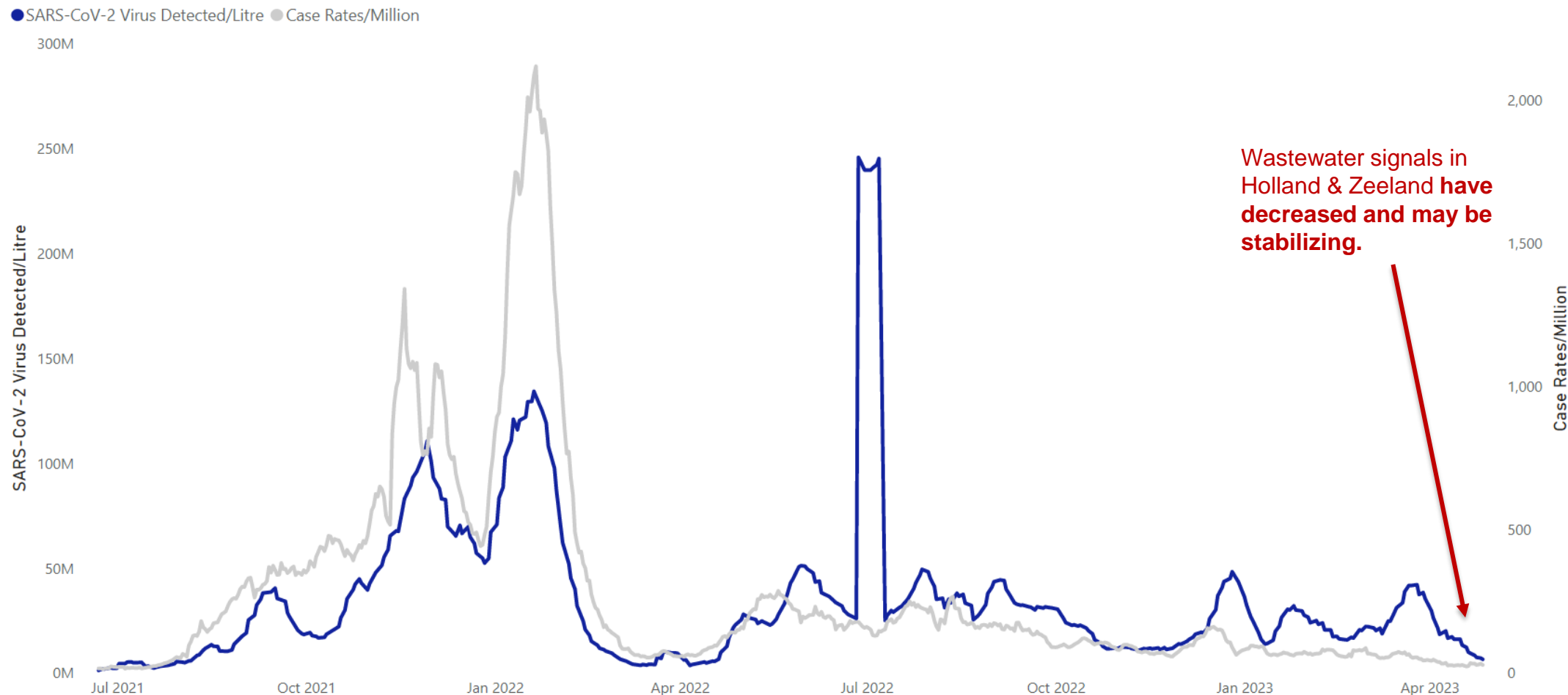
Notes: Average daily cases is calculated by summing the weekly total number of cases and dividing by seven. Cases counted in weeks of interest reflect referral date. Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower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

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

Data as of April 26, 2023

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)



Wastewater signals in Holland & Zeeland have decreased and may be stabilizing.

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. (best@hope.edu)

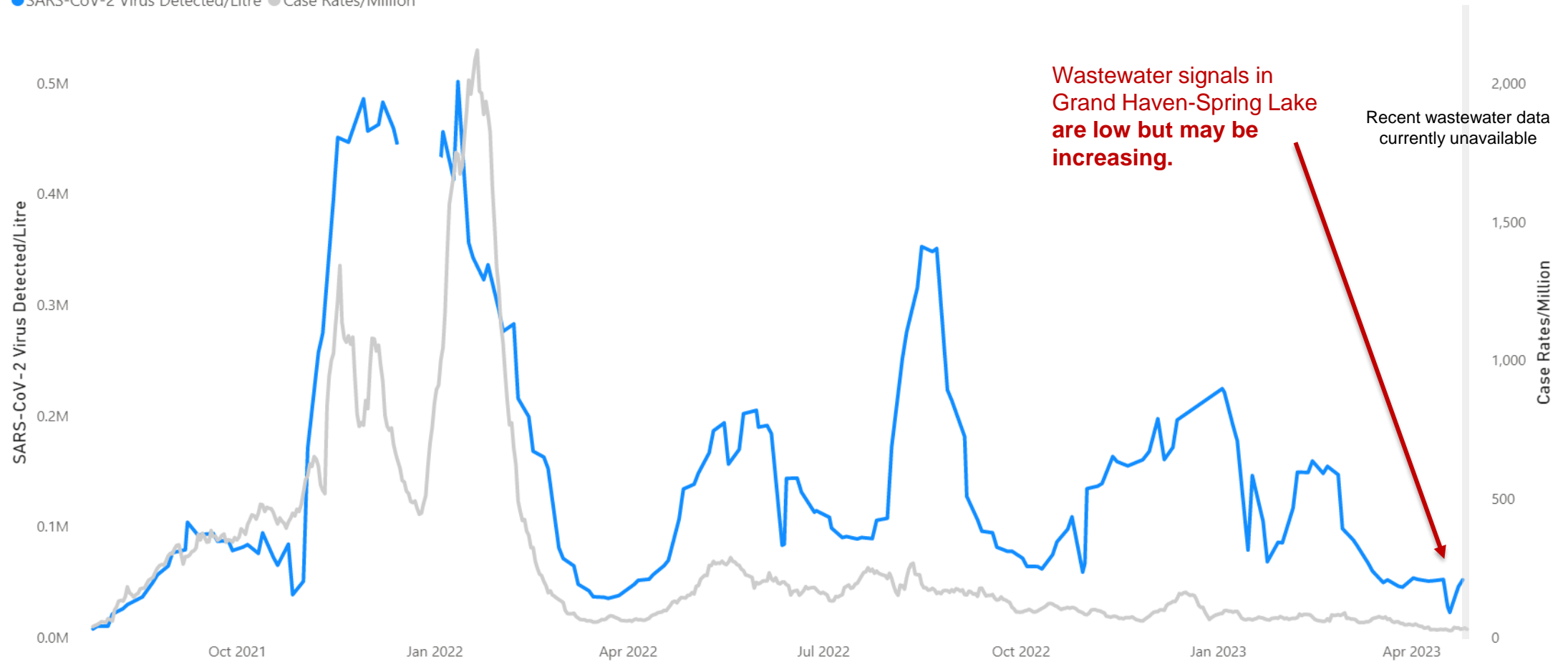
Additional Information: [Michigan COVID-19 Wastewater Surveillance Pilot Project \(arcgis.com\)](https://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](https://michigan.gov)

Data through April 27, 2023

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.

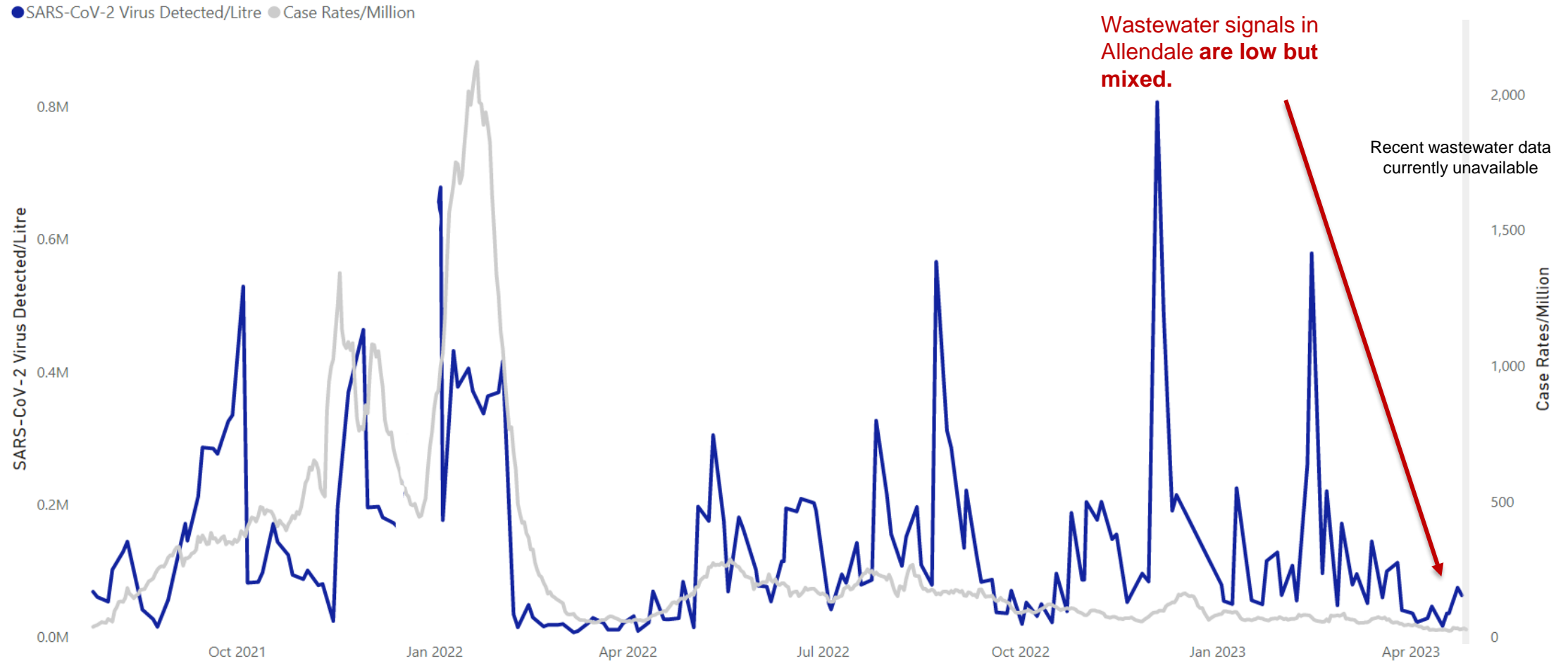
Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Richard Rediske, Ph.D. (redisker@gvsu.edu)

Additional Information: [Michigan COVID-19 Wastewater Surveillance Pilot Project \(arcgis.com\)](https://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](https://michigan.gov)

Data through April 25, 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)



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 \(arcgis.com\)](https://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](https://michigan.gov)

Data through April 25, 2023

Ottawa County Weekly Case Counts and % Change, by Age

Week Ending	Adults (18+)		Children (0-17 years)		Total	
	Number	% Change from Previous Week	Number	% Change from Previous Week	Number	% Change from Previous Week
11-Feb-23	159	33%	10	-38%	169	24%
18-Feb-23	114	-28%	6	-40%	120	-29%
25-Feb-23	146	28%	17	183%	163	36%
4-Mar-23	121	-17%	14	-18%	135	-17%
11-Mar-23	92	-24%	22	57%	114	-16%
18-Mar-23	136	48%	10	-55%	146	28%
25-Mar-23	108	-21%	6	-40%	114	-22%
1-Apr-23	87	-19%	5	-17%	92	-19%
8-Apr-23	65	-25%	4	-20%	69	-25%
15-Apr-23	57	-12%	1	-75%	58	-16%
22-Apr-23	64	12%	4	300%	68	17%

Adults

Children

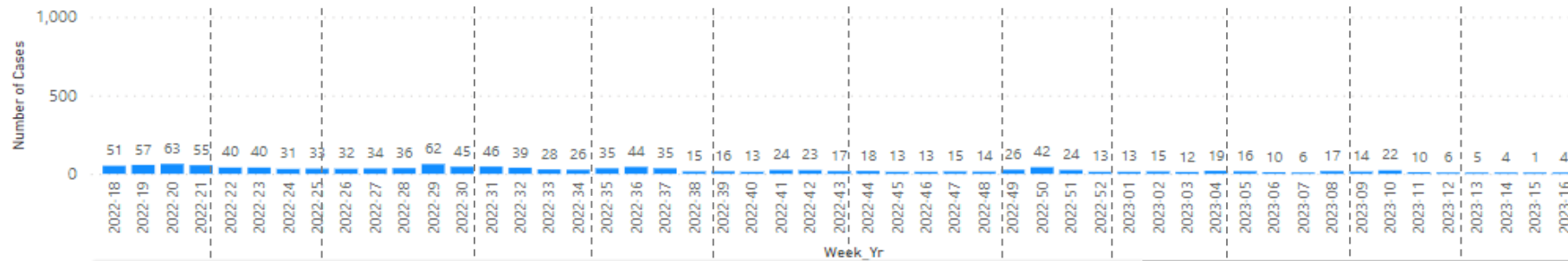
Weekly case counts among **children increased 300%** last week, and cases in **adults increased 12%**.

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.

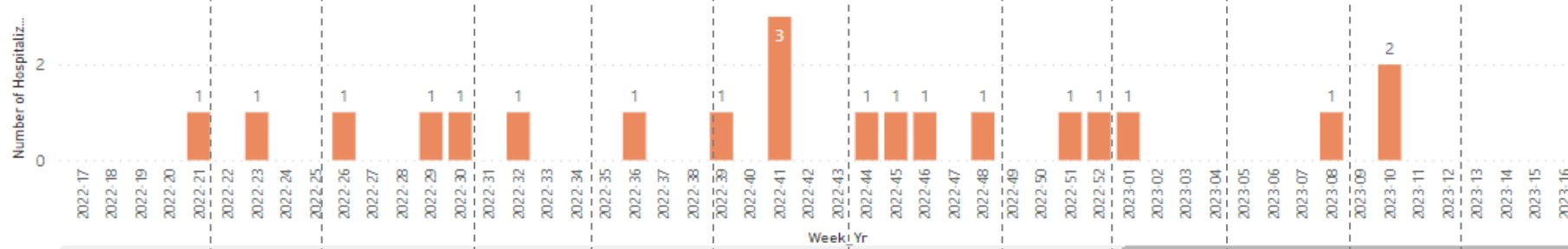
Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Ottawa County – Cases, Hospitalizations, & Deaths by Week Among Children (0-17 years)

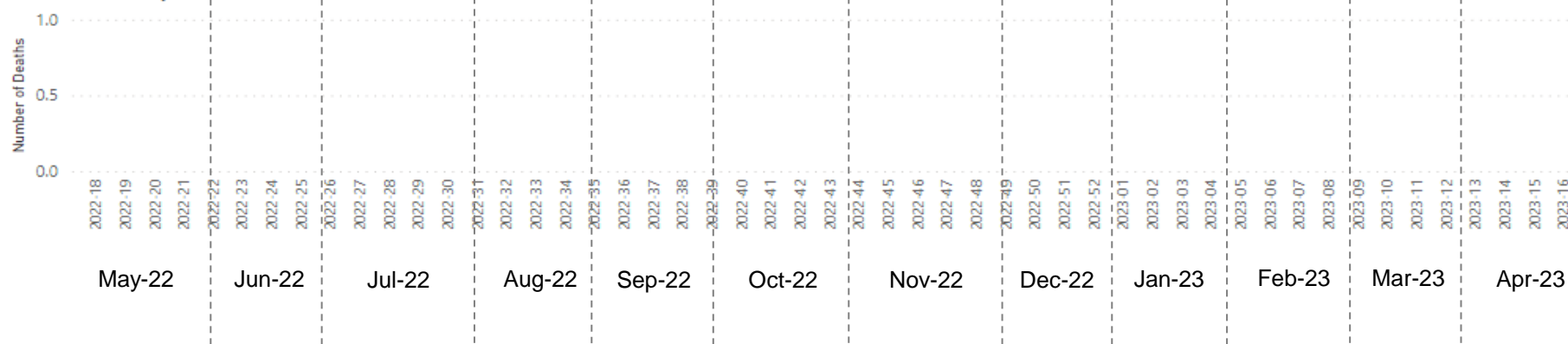
New Cases By Week of Referral



New Hospitalizations by Week of Admission



New Deaths by Week of Death



The weekly number of cases among children **increased 300%** from week 15 to week 16. But the number of cases was very low.

There have not been any COVID-19 associated deaths in children since the first one occurred in early January of 2022 (not pictured).

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.

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

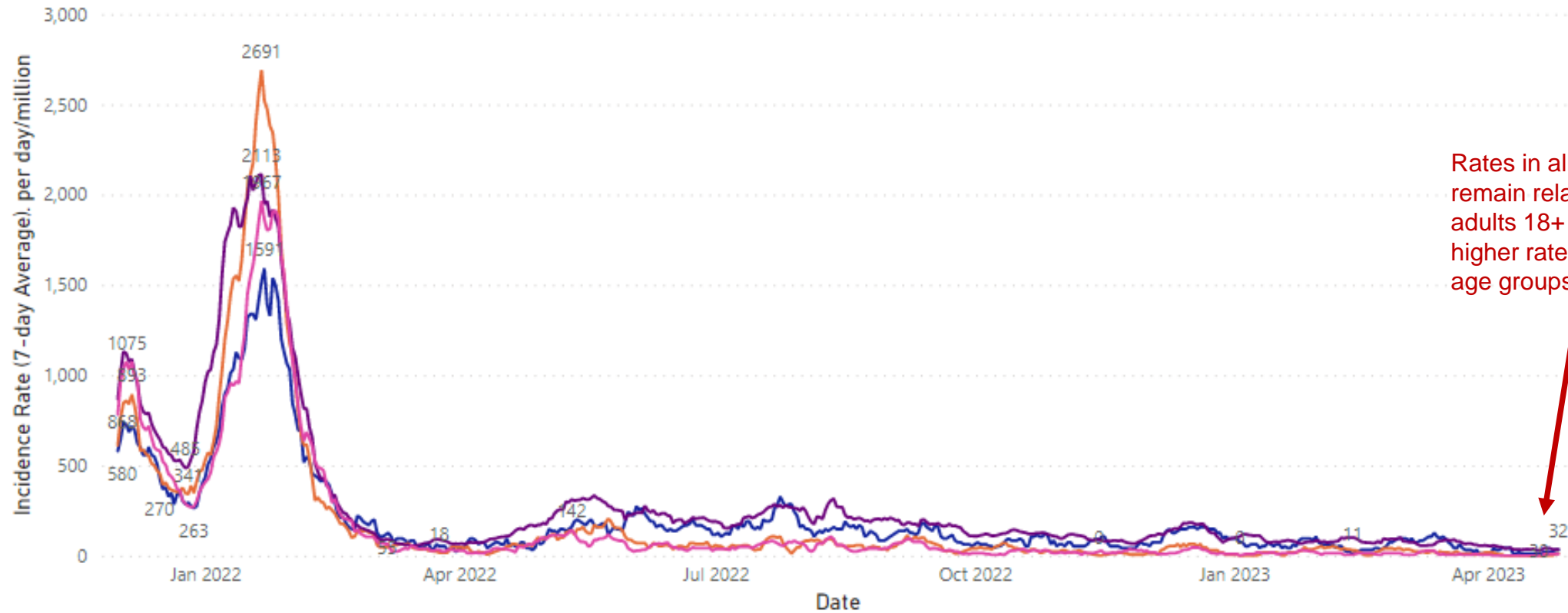
Data as of April 26, 2023

Ottawa County – Case Rate Trends by Age

COVID-19 Case Rates by Age, includes School-Aged, December 2021 – April 26, 2023

Incidence Rate (7-day Average)

rategroup ● 0-3 ● 12-17 ● 18+ ● 4-11



Rates in all age groups remain relatively low, with adults 18+ years having higher rates than younger age groups.

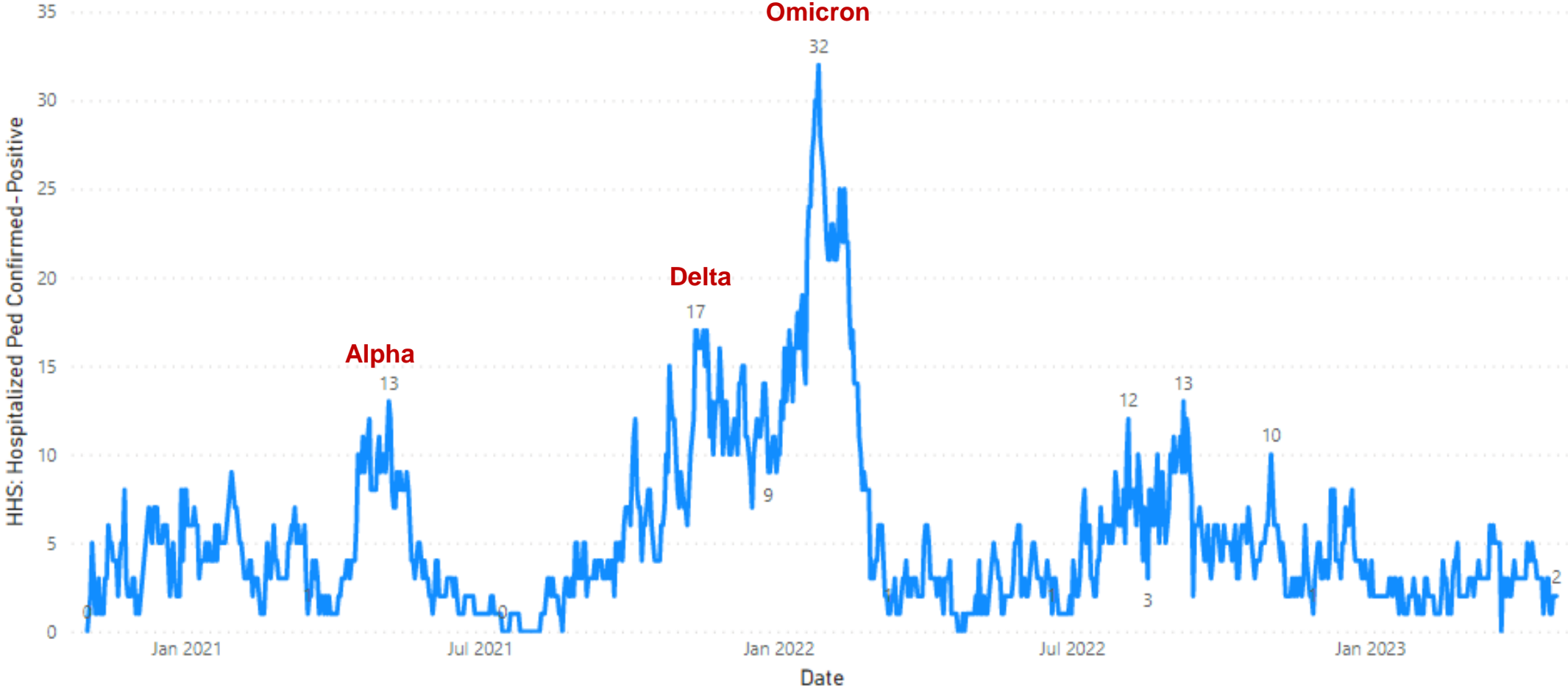
Data as of April 26, 2023

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

Daily Hospital Pediatric Census – West Michigan

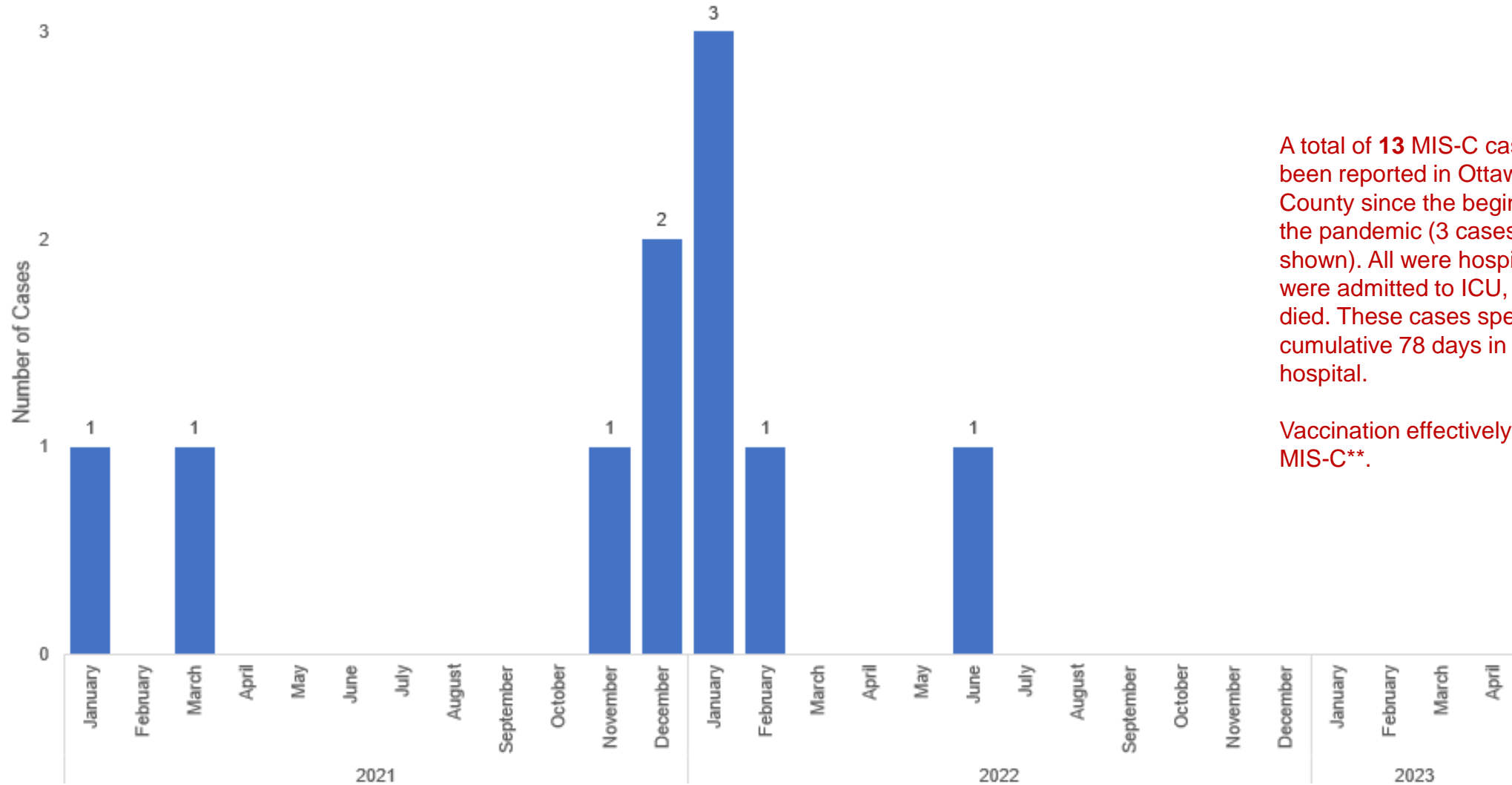
HHS: Hospitalized Ped Confirmed-Positive by Date



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 26, 2023

Ottawa County MIS-C* Cases by Month



A total of **13** MIS-C cases have been reported in Ottawa County since the beginning of the pandemic (3 cases not shown). All were hospitalized, 6 were admitted to ICU, none died. These cases spent a cumulative 78 days in the hospital.

Vaccination effectively prevents MIS-C**.

Notes: Includes confirmed and probable cases.

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

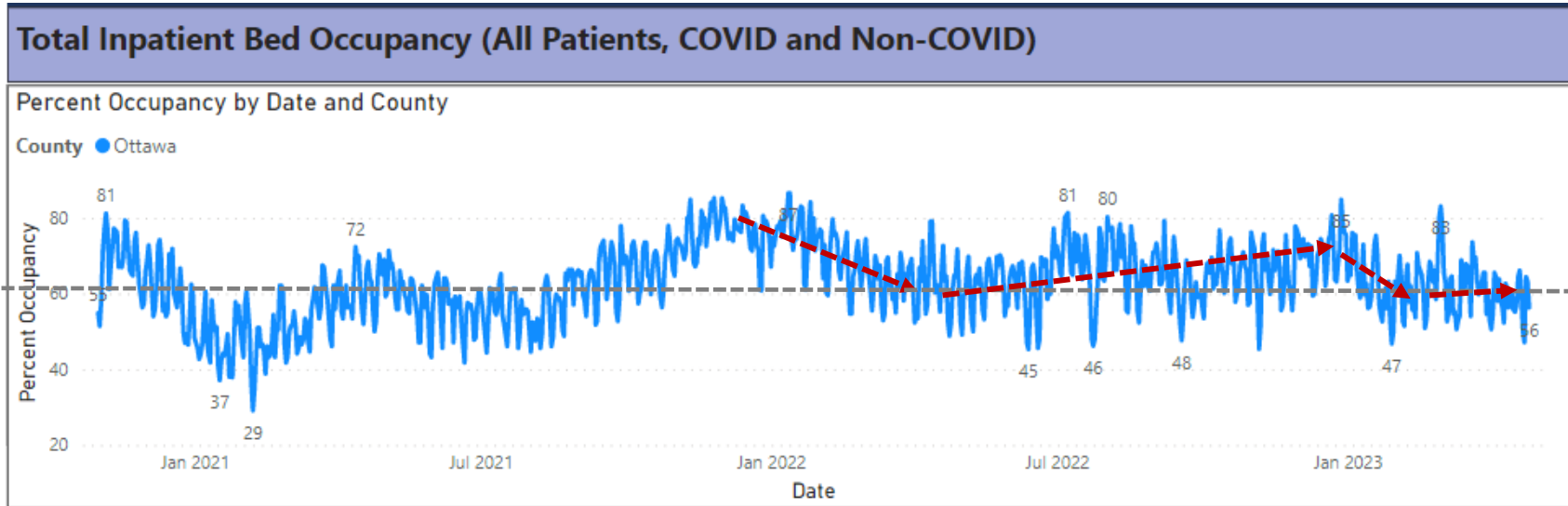
**Sources: [MMWR](#) & [The Lancet](#)

Data through April 27, 2023

Ottawa County Hospital Capacity – All Beds

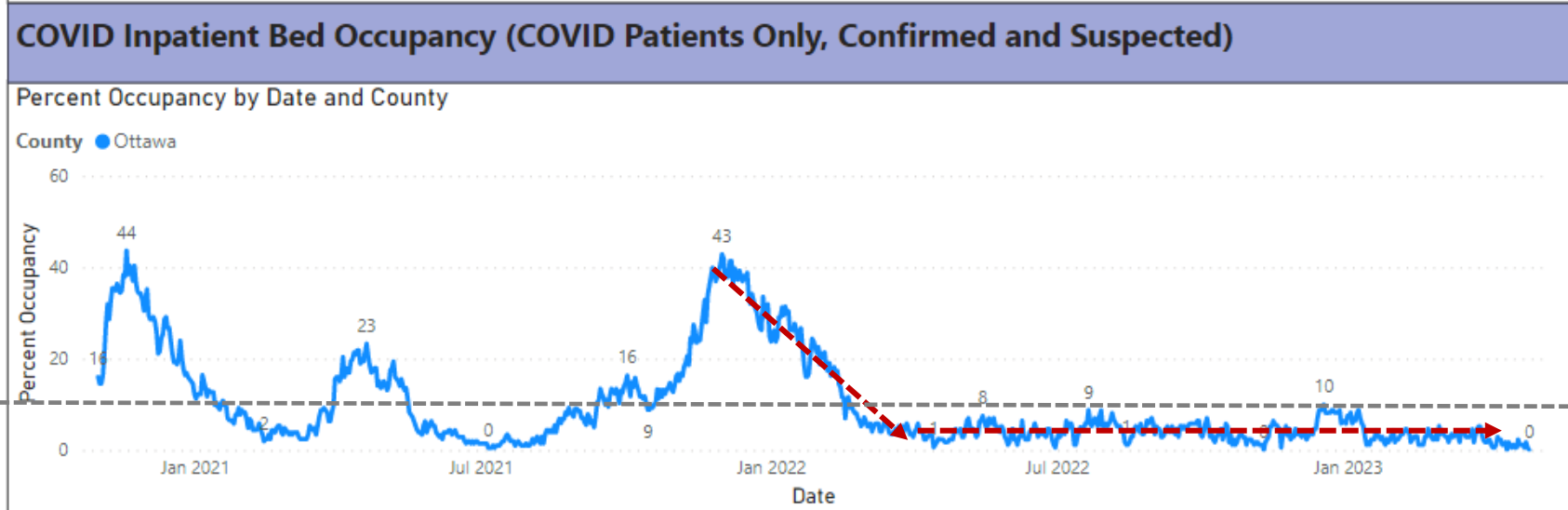
Pandemic Average

63%



Total hospital bed occupancy is currently below the pandemic average.

10%



Currently 0% of all inpatient beds are occupied by COVID-19 patients.

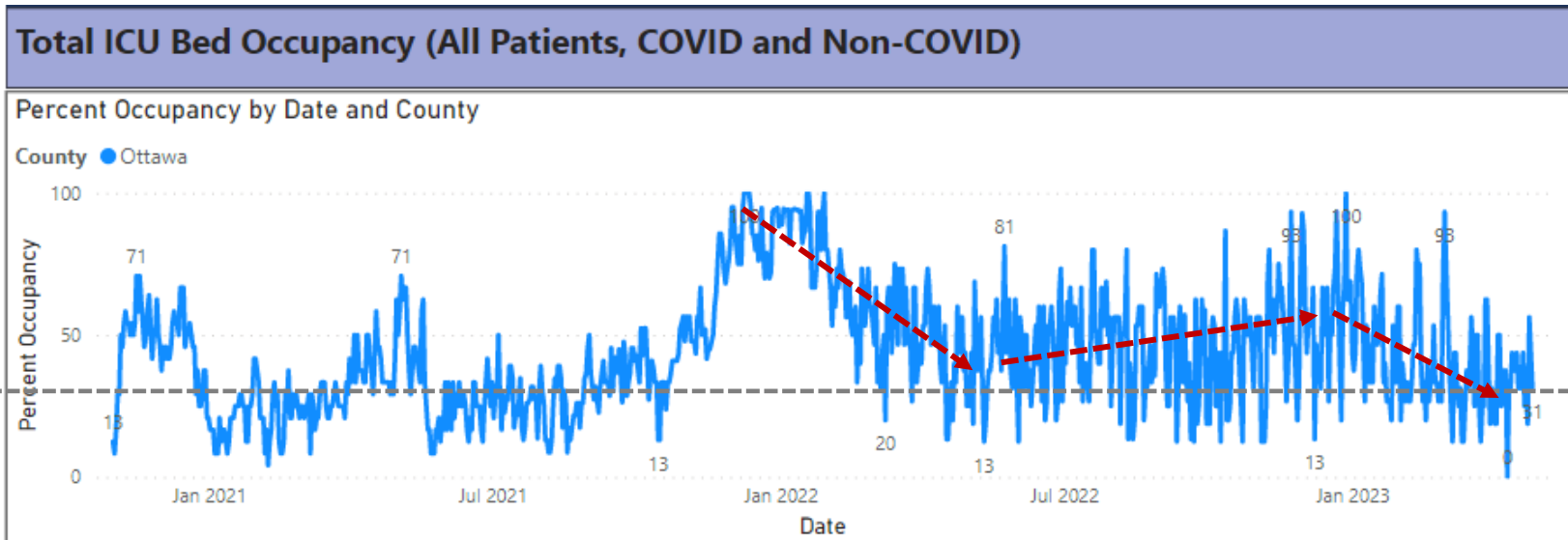
Source: EMResources

Data through April 26, 2023

Ottawa County Hospital Capacity – ICU Beds

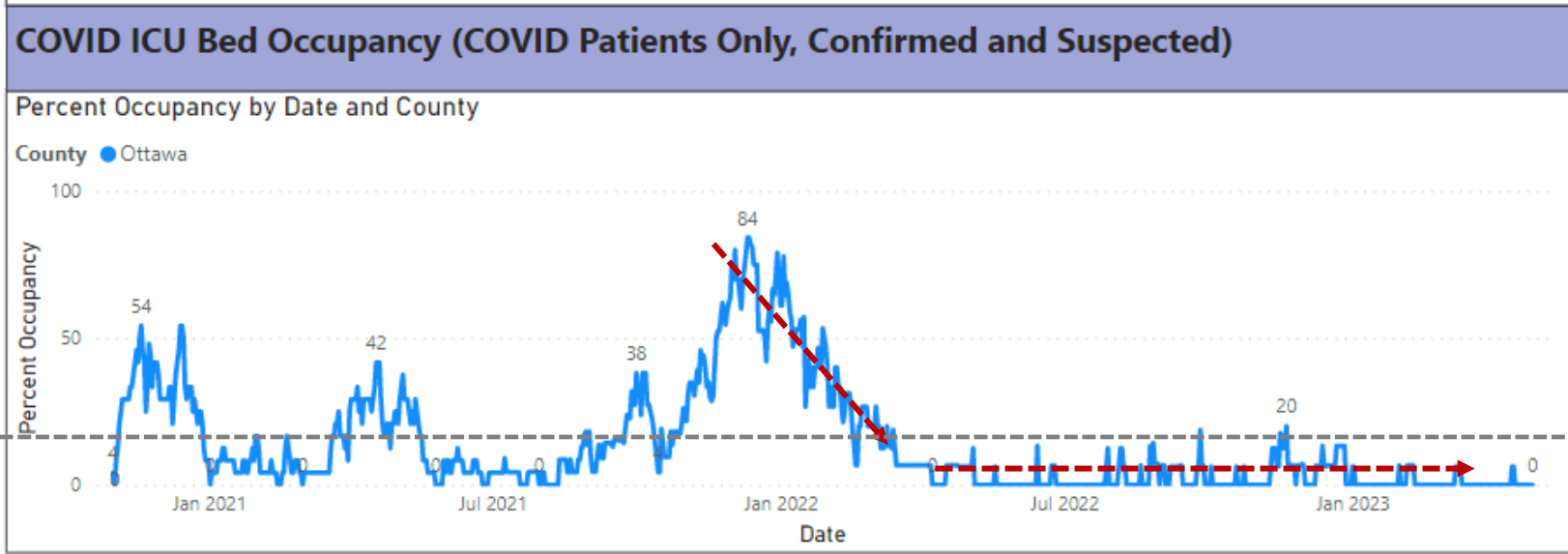
Pandemic Average

42%



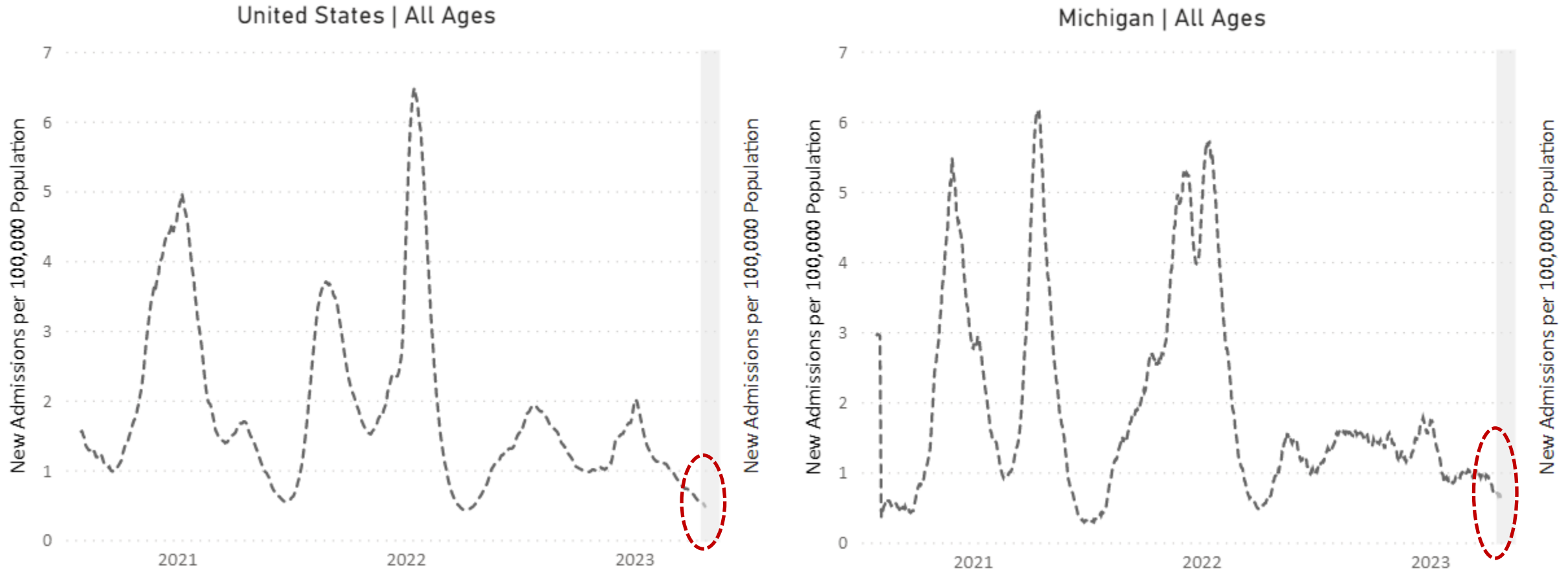
Total ICU bed occupancy varies considerably by day. Lately, ICU bed occupancy is **at the pandemic average**.

15%



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.

Pediatric Hospitalization Rates – USA, Michigan

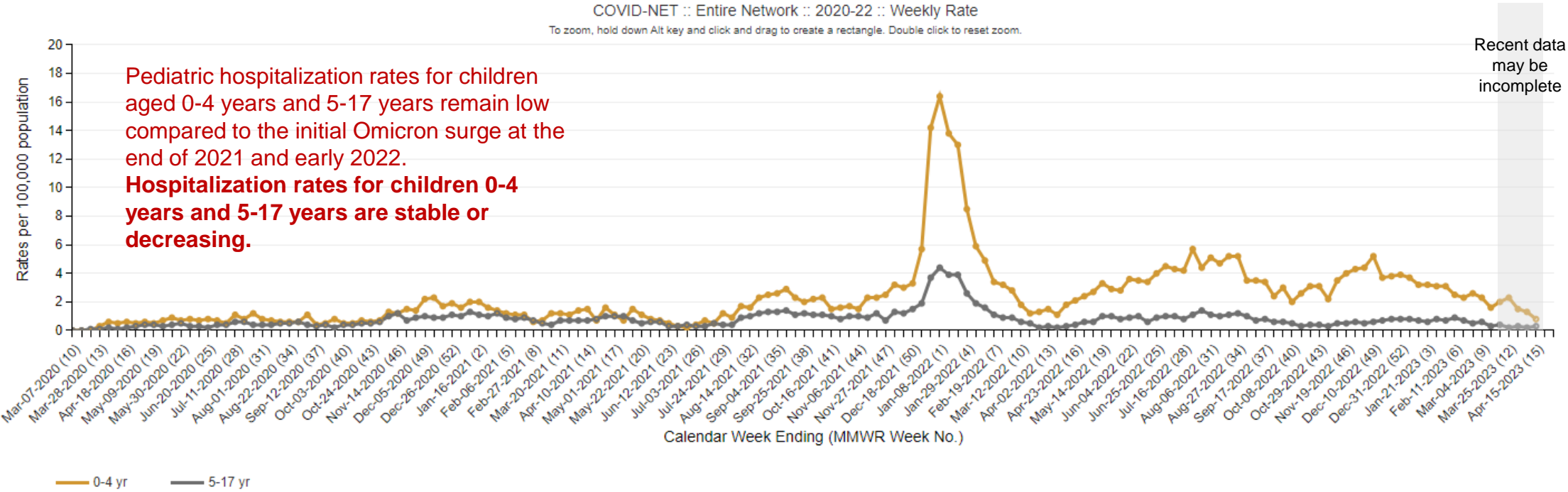


Pediatric COVID-19 hospitalization rates across the US and Michigan are decreasing.

Source: <https://covid.cdc.gov/covid-data-tracker/#new-hospital-admissions>

Accessed April 27, 2023

Pediatric Hospitalization Rates by Age Group – USA



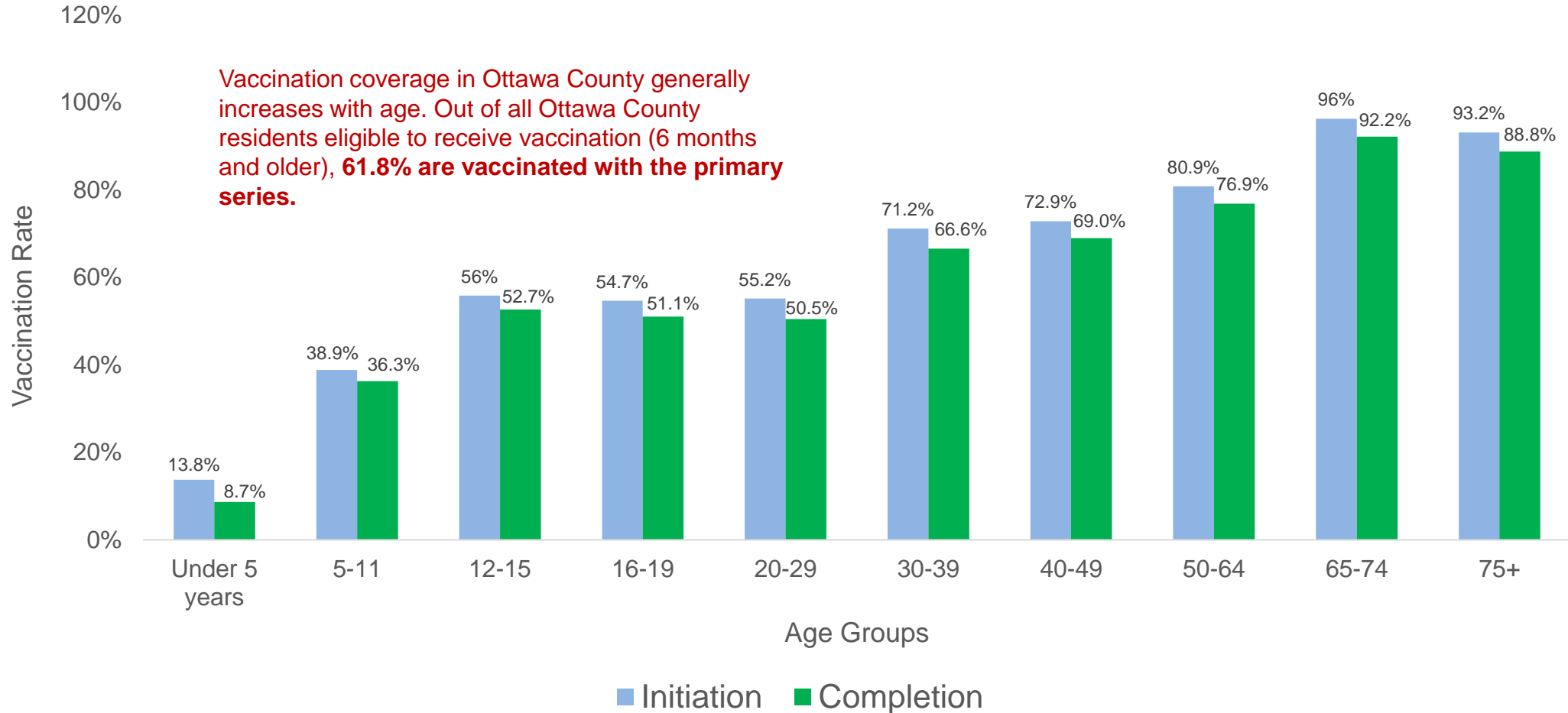
The Coronavirus Disease 2019 (COVID-19)-Associated Hospitalization Surveillance Network (COVID-NET) hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. Lag for COVID-NET case 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, NM, 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.

Source: <https://covid.cdc.gov/covid-data-tracker/#covidnet-hospitalization-network>

Accessed April 27, 2023

Vaccination Coverage by Age (Primary Series Only)



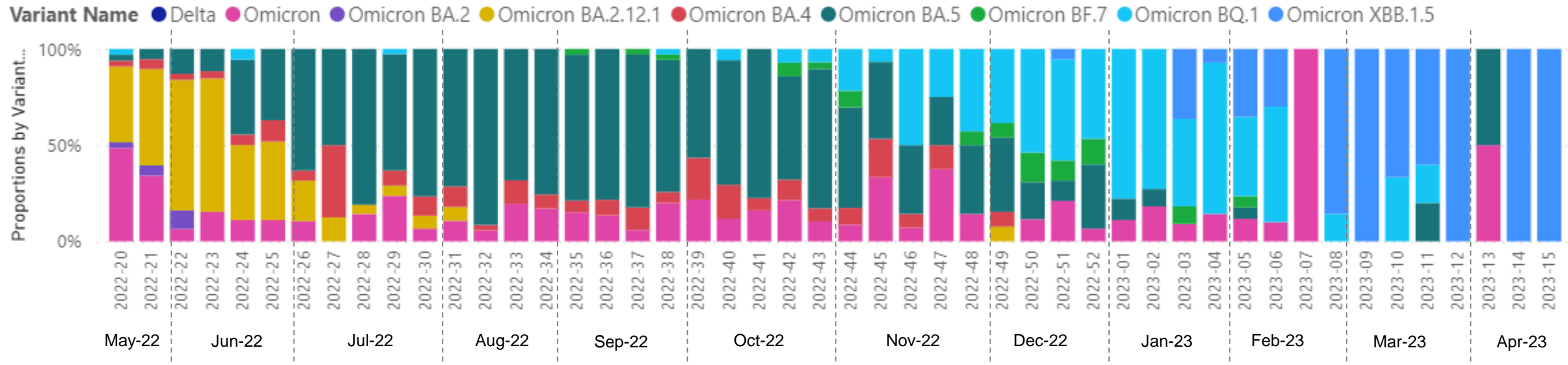
Notes: Completion is the percentage of people receiving at least 2 doses of Pfizer or Moderna or 1 dose of J&J. NovaVax doses are not included here.

Source: <https://www.michigan.gov/coronavirus/resources/covid-19-vaccine/covid-19-dashboard>

Data through April 26, 2023

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).

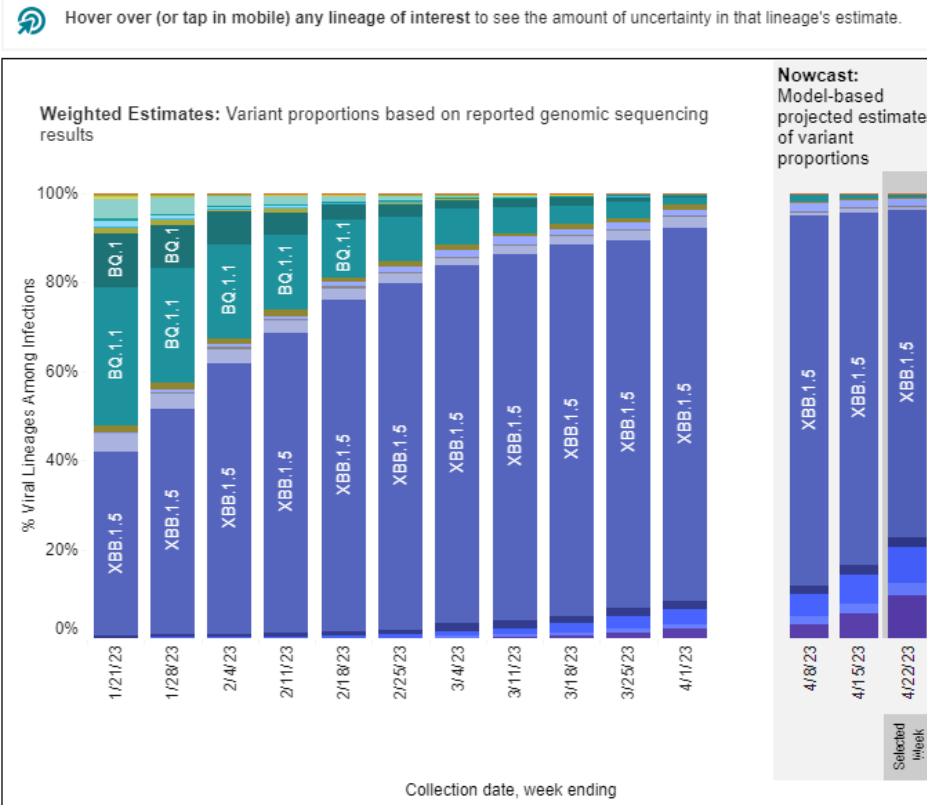
In mid-December 2021, the first **Omicron** positive sample was collected in an Ottawa County resident (data not displayed here), and **Omicron** continues to be detected into 2023, with more recent additions of the **Omicron subvariants** such as BQ.1 and XBB.1.5. Additional **Omicron subvariants**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

Variants – Clinical Samples from Across the USA

Weighted and Nowcast Estimates in United States for Weeks of 1/15/2023 – 4/22/2023



Nowcast Estimates in United States for 4/16/2023 – 4/22/2023

USA				
WHO label	Lineage #	US Class	%Total	95%PI
Omicron	XBB.1.5	VOC	73.6%	69.6-77.3%
	XBB.1.16	VOC	9.6%	6.7-13.6%
	XBB.1.9.1	VOC	7.9%	6.1-10.1%
	XBB.1.9.2	VOC	2.9%	2.1-4.0%
	XBB.1.5.1	VOC	2.2%	1.7-2.8%
	FD.2	VOC	1.6%	0.7-3.2%
	XBB	VOC	1.0%	0.6-1.8%
	BQ.1.1	VOC	0.7%	0.4-1.1%
	CH.1.1	VOC	0.4%	0.2-0.5%
	BQ.1	VOC	0.1%	0.0-0.1%
	BN.1	VOC	0.0%	0.0-0.0%
	BA.5	VOC	0.0%	0.0-0.0%
	BA.2.75	VOC	0.0%	0.0-0.0%
	BA.2	VOC	0.0%	0.0-0.0%
	BF.7	VOC	0.0%	0.0-0.0%
	BA.2.75.2	VOC	0.0%	0.0-0.0%
	BA.5.2.6	VOC	0.0%	0.0-0.0%
BF.11	VOC	0.0%	0.0-0.0%	
BA.4.6	VOC	0.0%	0.0-0.0%	
Other	Other*		0.1%	0.0-0.1%

The **Omicron** variant and its subvariants are estimated to account for more than 99% of all clinical samples collected in the United States the week ending April 22, 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 the lineages shown and their sublineages, sublineages of XBB are aggregated to XBB. Except XBB.1.5.1 and FD.2, 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.1.9.2 and XBB.1.16 were aggregated to XBB; FD.2 was aggregated to XBB.1.5. Lineages BA.2.75.2, XBB, XBB.1.5, XBB.1.5.1, FD.2, XBB.1.9.1, XBB.1.9.2, XBB.1.16, BN.1, BA.4.6, BF.7, BF.11, BA.5.2.6 and BQ.1.1 contain the spike substitution R346T.

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
Fewer than 200	New COVID-19 admissions per 100,000 population (7-day total)	<10.0	10.0-19.9	≥20.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
200 or more	New COVID-19 admissions per 100,000 population (7-day total)	NA	<10.0	≥10.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	NA	<10.0%	≥10.0%

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.

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*.

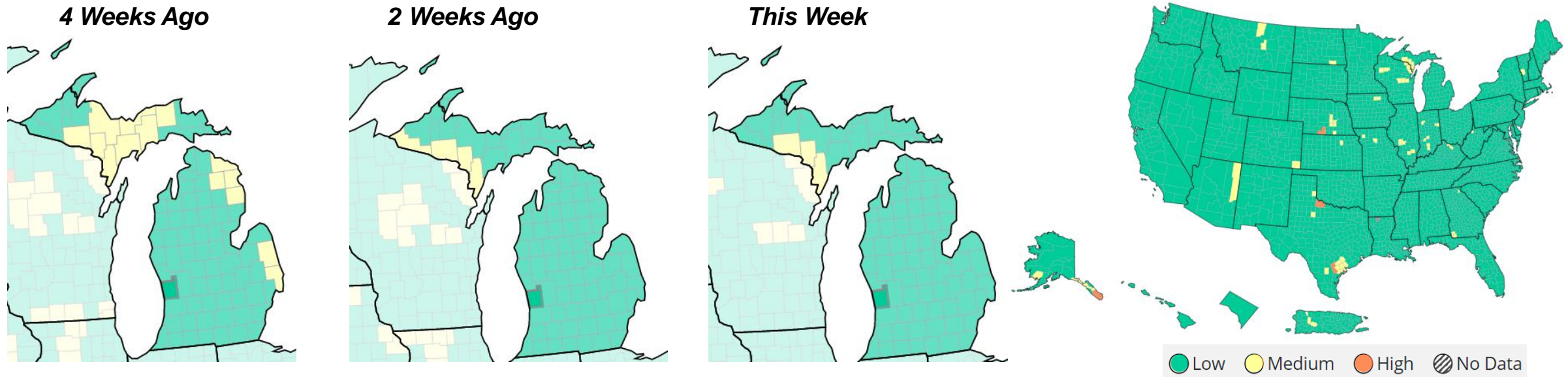
Source: <https://www.cdc.gov/coronavirus/2019-ncov/science/community-levels.html>

CDC Community Levels – Ottawa County

- Current Community Level in Ottawa – **LOW**
 - Ottawa and Michigan’s CDC Community Levels can be viewed on the [CDC website](#) and on the [MI Safe Start Map](#).

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%**




Data updated by CDC on April 28, 2023
Ottawa Hospitalization data as of April 25, 2023

Source: [CDC COVID Data Tracker: Community Levels](#)

COVID-19 Community Transmission Levels

Determining Transmission Risk

If the two indicators suggest different transmission levels, the higher level is selected

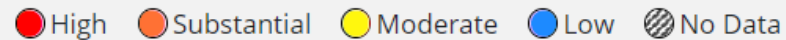
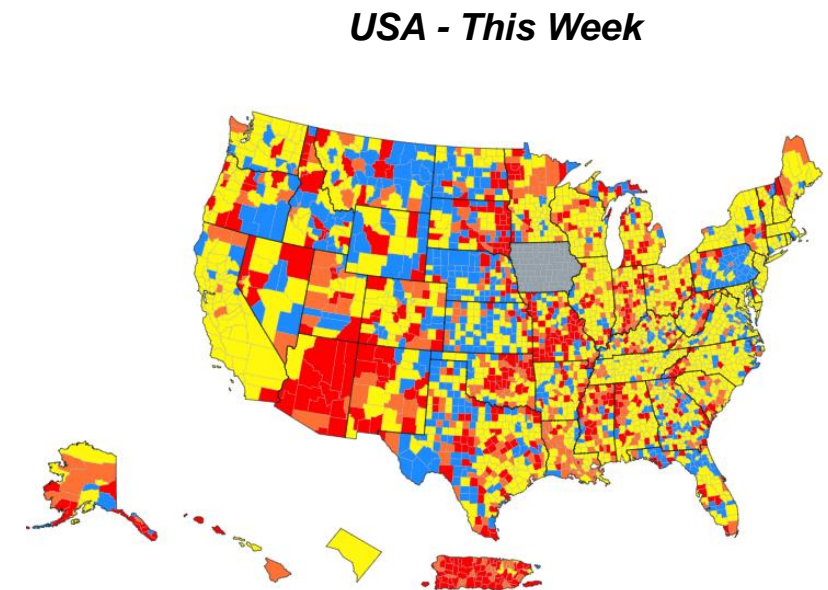
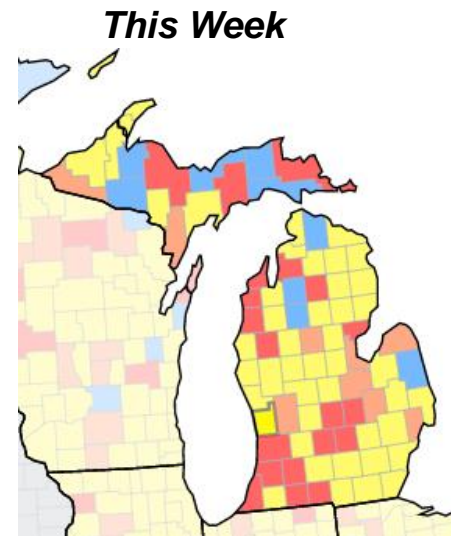
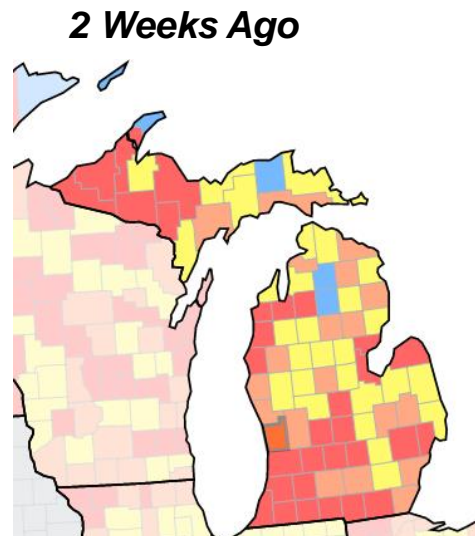
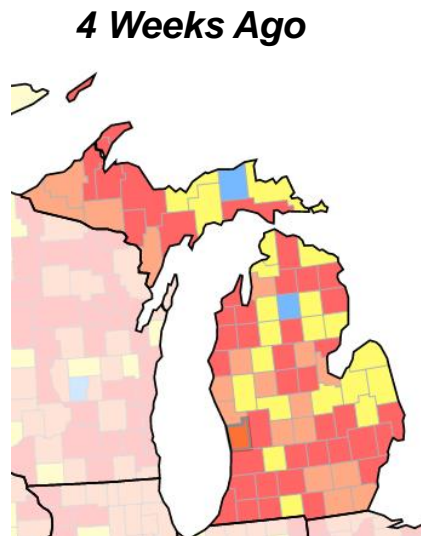


	Low	Moderate	Substantial	High
New cases per 100,000 persons in the past 7 days*	<10	10-49.99	50-99.99	≥ 100
Percentage of positive NAATs tests during the past 7 days**	<5%	5-7.99%	8-9.99%	≥ 10.0%

Source: https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=all_states&data-type=Risk

CDC Community Transmission Levels – Ottawa County

- Current Community Transmission Level in Ottawa – **MODERATE**
 - Ottawa and Michigan’s CDC Community Transmission Levels can be viewed on [CDC’s website](#) and on the [MI Safe Start Map](#).
- Current Data:
 - Case Rate (per 100k pop 7-day total) = **24.7**
 - Percent Test Positivity (last 7 days) = **7.7%**



Data updated by CDC on April 28, 2023
Rate data for Ottawa as of April 26, 2023
Positivity data for Ottawa as of April 24, 2023

Source: [CDC COVID Data Tracker: Community Transmission](#)

COVID-19 News Headlines

What Does the End of the COVID-19 Public Health Emergency Mean for Health Benefits?

<https://blog.dol.gov/2023/03/29/what-does-the-end-of-the-covid-19-public-health-emergency-mean-for-health-benefits>

New COVID-19 subvariant referred to as Arcturus on the rise in Australia. This is what we know about it

<https://www.abc.net.au/news/2023-04-27/new-covid19-subvariant-arcturus-on-rise-australia/102268756>

CDC signs off on 2nd dose of omicron Covid boosters for older adults

<https://www.nbcnews.com/health/health-news/cdc-omicron-booster-2nd-dose-older-adults-rcna79568>

Michigan reports 3,867 new COVID cases, 54 deaths over last week

<https://www.clickondetroit.com/health/2023/04/19/michigan-reports-3867-new-covid-cases-54-deaths-over-last-week/>

Science Roundup

Association of Physical Activity With SARS-CoV-2 Infection and Severe Clinical Outcomes Among Patients in South Korea

<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2804046>



A nested case-control study performed in South Korea found an association between moderate to vigorous physical activity and lower risk of severe COVID-19 outcomes.

Safety, Immunogenicity, and Efficacy of the NVX-CoV2373 COVID-19 Vaccine in Adolescents

<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2804216>



The findings from this randomized clinical trial suggest that the NVX-CoV2373 (Novavax) COVID-19 vaccine is safe, immunogenic and effective in preventing COVID-19, including the Delta variant, among adolescents.

Neutralizing Monoclonal Antibody Use and COVID-19 Infection Outcomes

<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2803990>



A retrospective cohort study found that neutralizing monoclonal antibodies (nMAbs) used as treatment for COVID-19 was safe, and associated with reduced risk for ED visits, hospitalization, and death, but not hospitalization during the Omicron BA.1 period of the pandemic.

The Association of Reported Experiences of Racial and Ethnic Discrimination in Health Care with COVID-19 Vaccination Status and Intent — United States, April 22, 2021–November 26, 2022

<https://www.cdc.gov/mmwr/volumes/72/wr/mm7216a5.htm>



The findings from this study suggest the need for strategies to address inequitable healthcare experiences to help improve trust, adherence to recommendations, and mitigate COVID-19-related health disparities.