

Ottawa County COVID-19 Epidemiology

September 1, 2022

Data as of August 27, 2022, unless otherwise indicated.

Executive Summary

- **Transmission in the US and in Michigan is stable and may be declining**
- **Ottawa County transmission signals are mixed**
 - Last week positivity **increased** to 19.5%, from 18.9% two weeks ago.
 - Weekly case counts **decreased** 2% (-25% two weeks ago), from 340 two weeks ago to 332 last week.
 - Cases among children **decreased** 4% (-31% two weeks ago), from 27 two weeks ago to 26 last week.
 - COVID-19 wastewater signals in Ottawa County are **decreasing** in Holland/Zeeland, Grand Haven/Spring Lake and Allendale. Based on national data and local clinical variant sampling, the Omicron subvariant BA.5 likely predominates.
 - Ottawa's CDC Community Level is LOW.
- **Ottawa-area and regional hospitals have adequate capacity**
 - In Ottawa County, 6% of all available beds and 0% of all ICU beds are occupied by COVID-19 patients.*
- **Pediatric hospitalization rates in the US are increasing, but are relatively low and stable in Michigan**
 - Regional pediatric hospitalization census remains low compared to the late 2021 and early 2022 Omicron surge; however, in recent weeks, daily pediatric hospitalization census has been increasing.
- **Of Ottawa County residents aged 6 months and older, 60.2% are fully vaccinated.**

*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

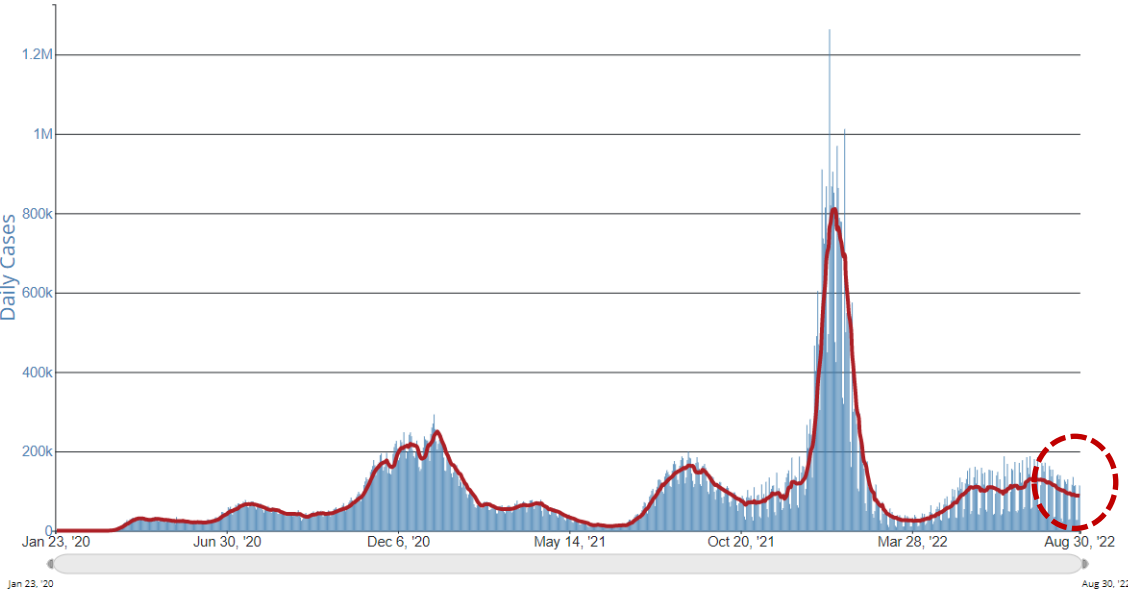
Metric	Goal	Week Ending				
		30-Jul-22	6-Aug-22	13-Aug-22	20-Aug-22	27-Aug-22
Positivity (All Ages)	NA	23.3%	24.1%	23.1%	18.9%	19.5%
Weekly Cases (All Ages)	<592	457	376	456	340	332
Weekly Cases in Children (0-17 years of age)	NA	45	46	39	27	26
Total Deaths (All Ages)	0	2	4	2	1	1
CDC COVID-19 Community Level (New)	Low	Low	Low	Low	Low	Low

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

Case Trends in the USA and Michigan

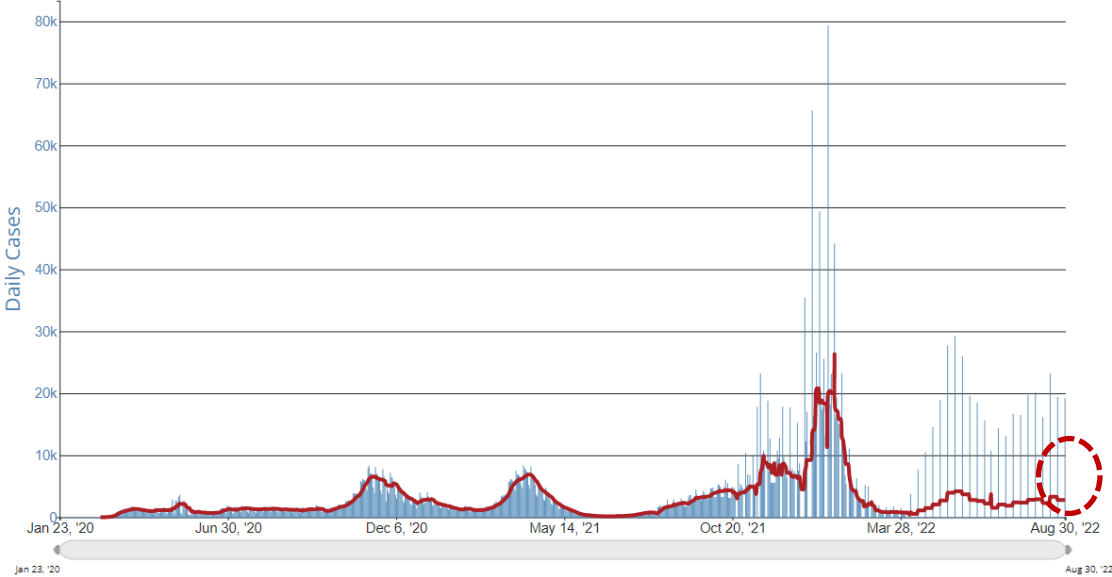
USA

Daily Trends in Number of COVID-19 Cases in The United States Reported to CDC



Michigan

Daily Trends in Number of COVID-19 Cases in Michigan Reported to CDC



Daily case counts in the US and Michigan remain lower than previous surges but may be increasing.

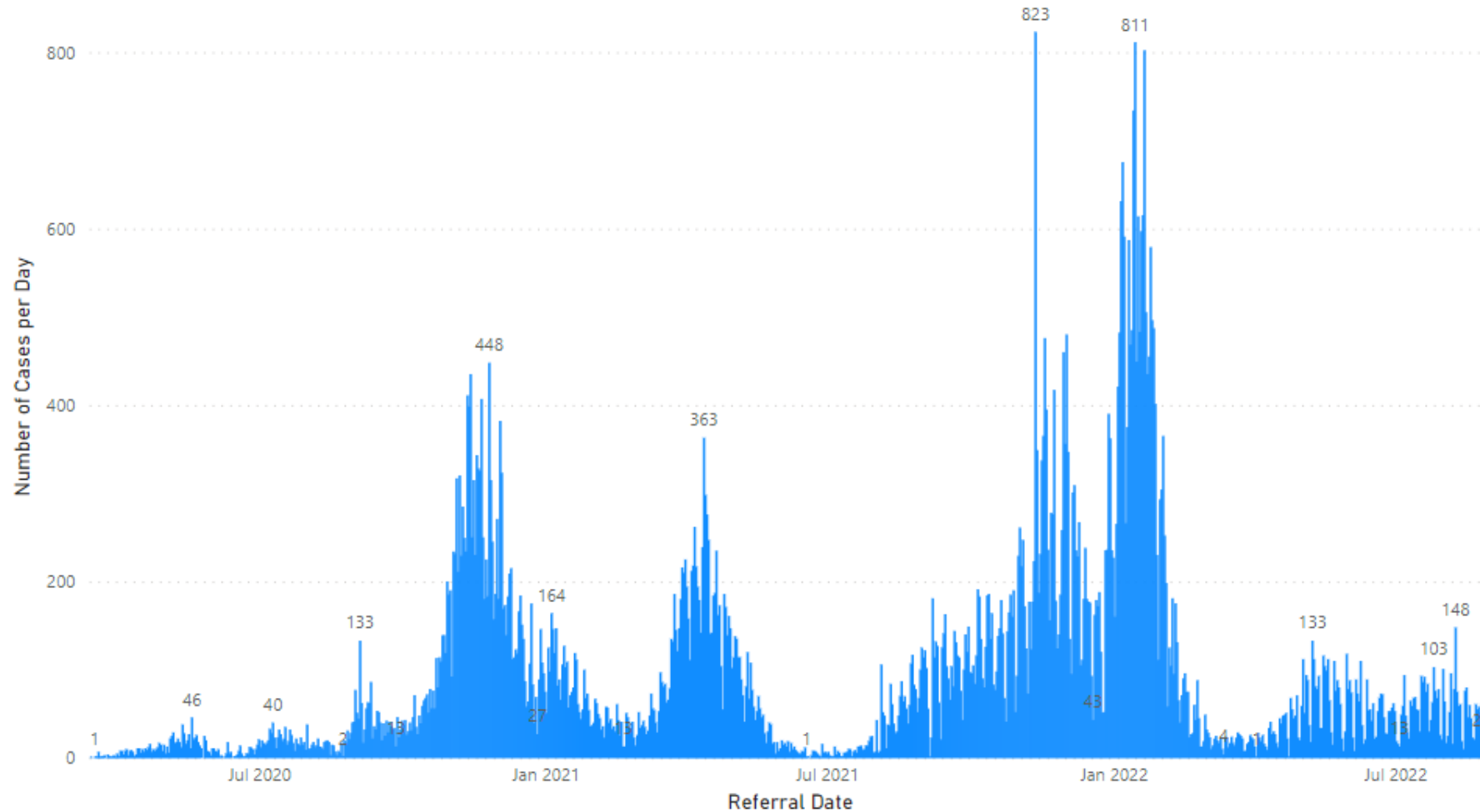
Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in an artificially lower number of cases.
Source: https://covid.cdc.gov/covid-data-tracker/#trends_dailycases

Data through August 30, 2022

Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 – August 31, 2022

Epidemiological Curve



Total Number of Cases
82,716

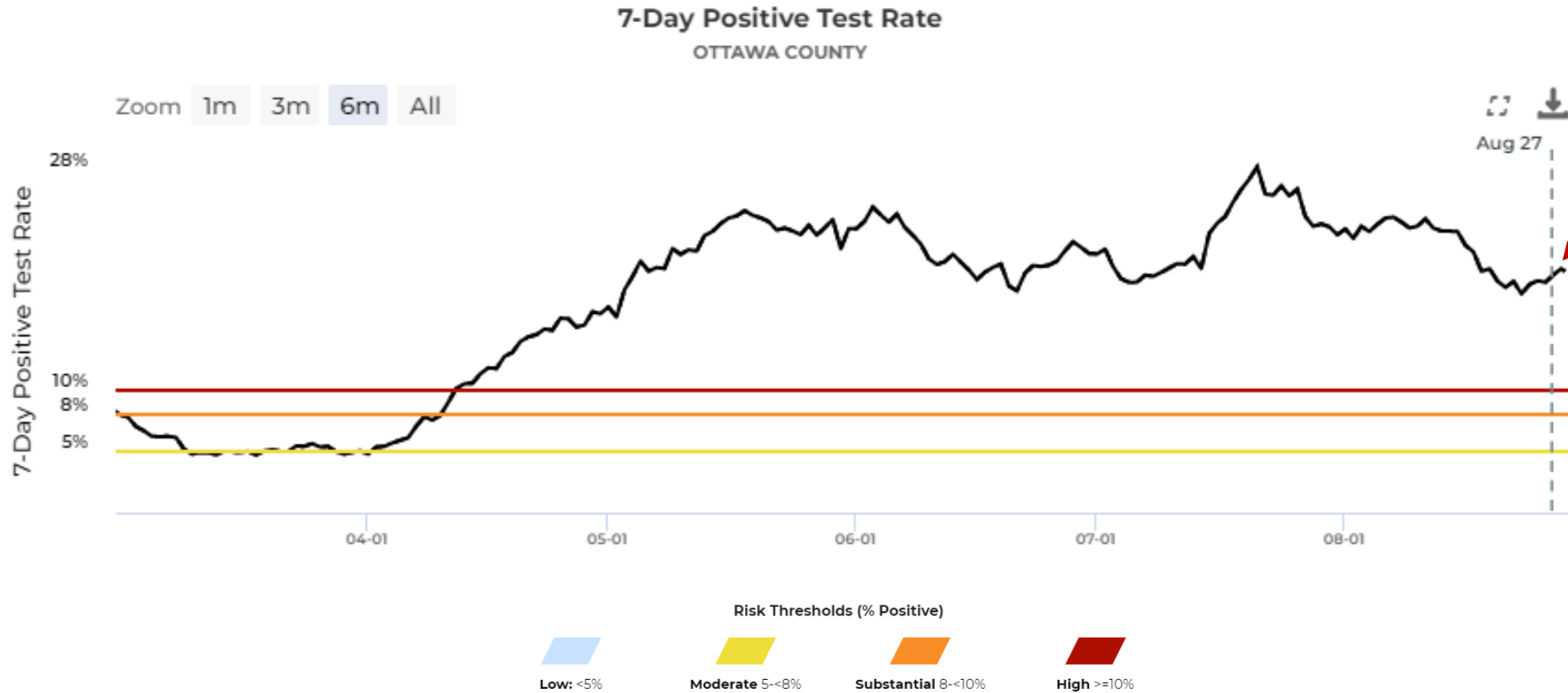
Currently, the 7-day average is about **41 cases per day**, a **decrease** from the approximately **46 cases per day** seen two weeks ago.

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, January 1, 2022 – August 27, 2022



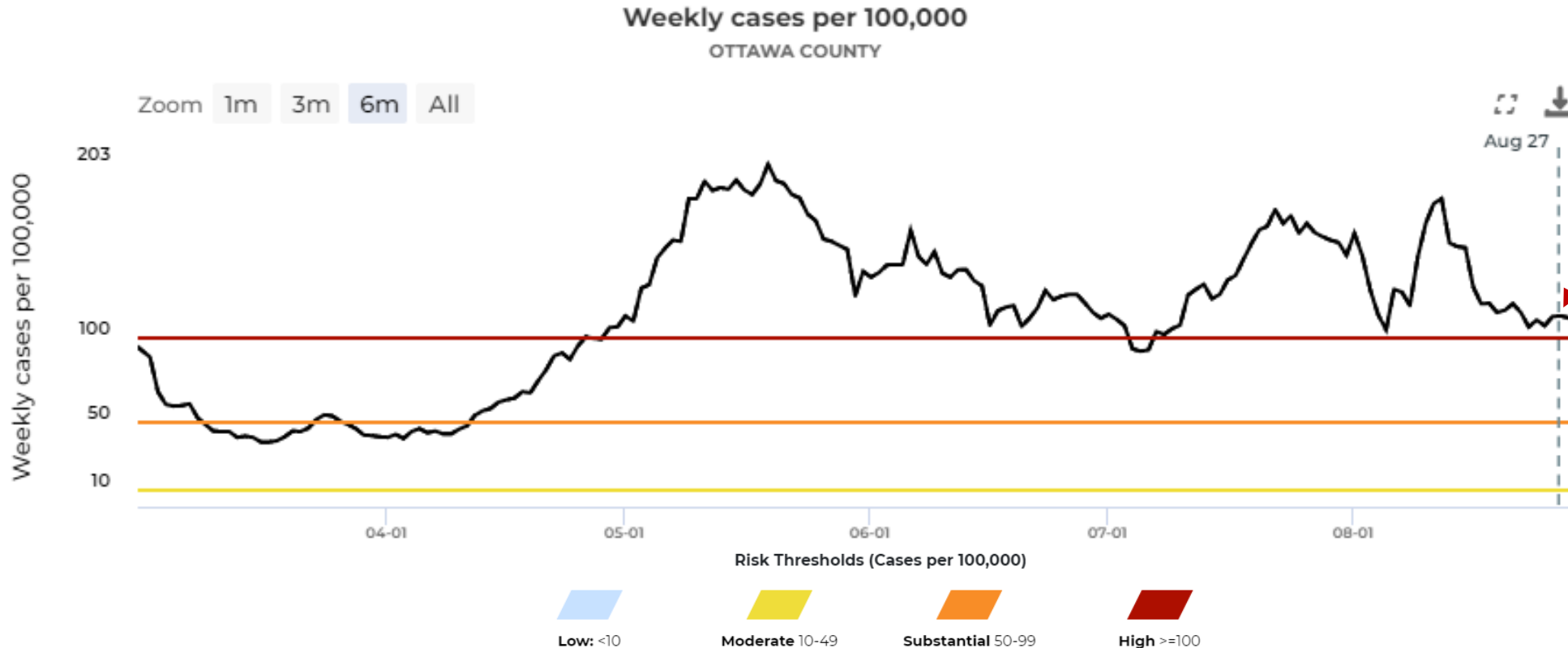
This visualization may change as CDC Community Transmission levels, metrics and/or metric thresholds/goals change.

Note: Testing data and can be found at the following sources: [Testing Results | Ottawa County Covid-19 Case Summary Data \(arcgis.com\)](#) & [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, January 1, 2022 – August 27, 2022



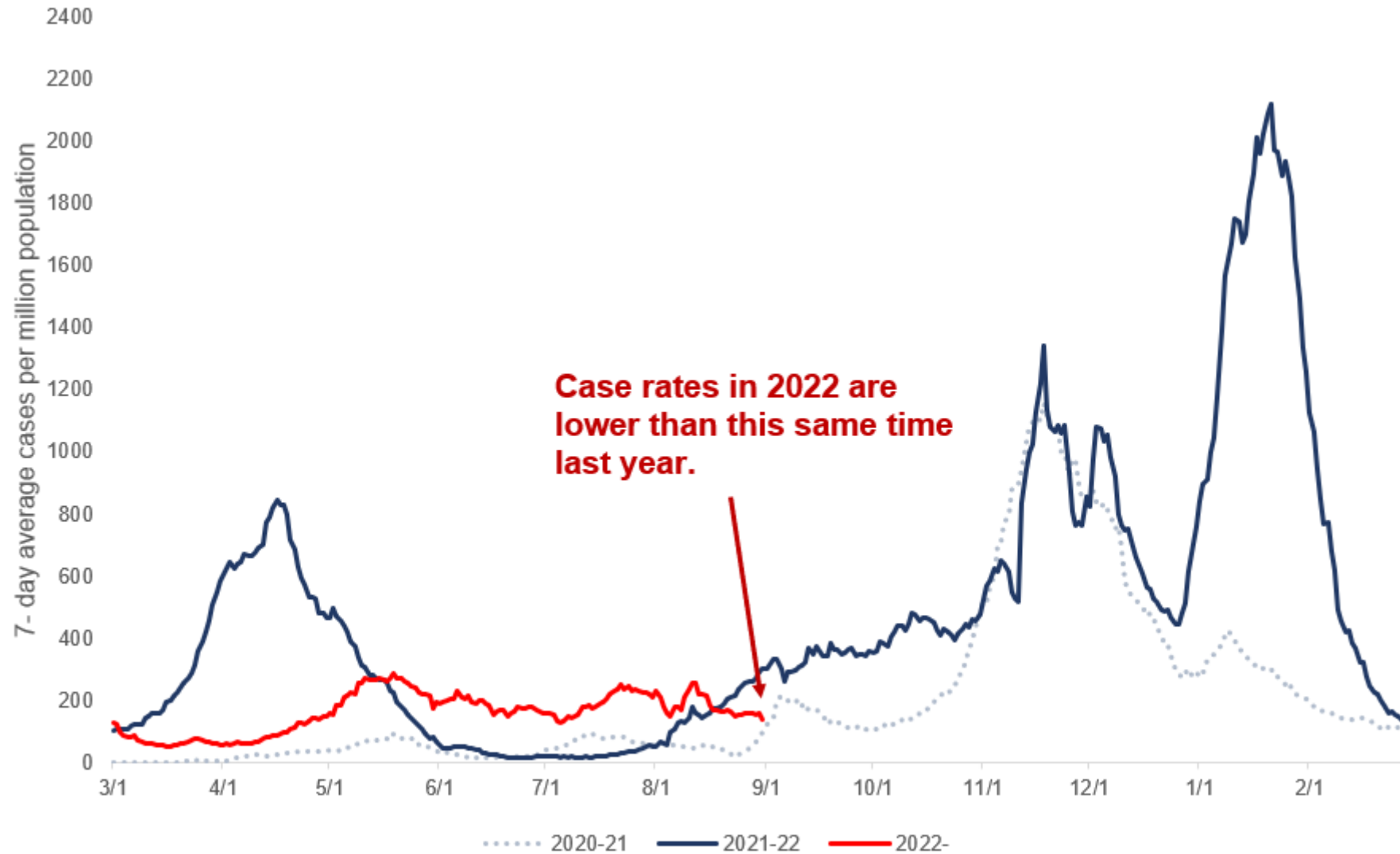
Case rates trended at **113.1** cases per week per 100,000 population (**lower than 116.5** the week prior).

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 Time Trends – Annual Comparison of Case



Case rates in 2022 are lower than this same time last year.

..... 2020-21 — 2021-22 — 2022-

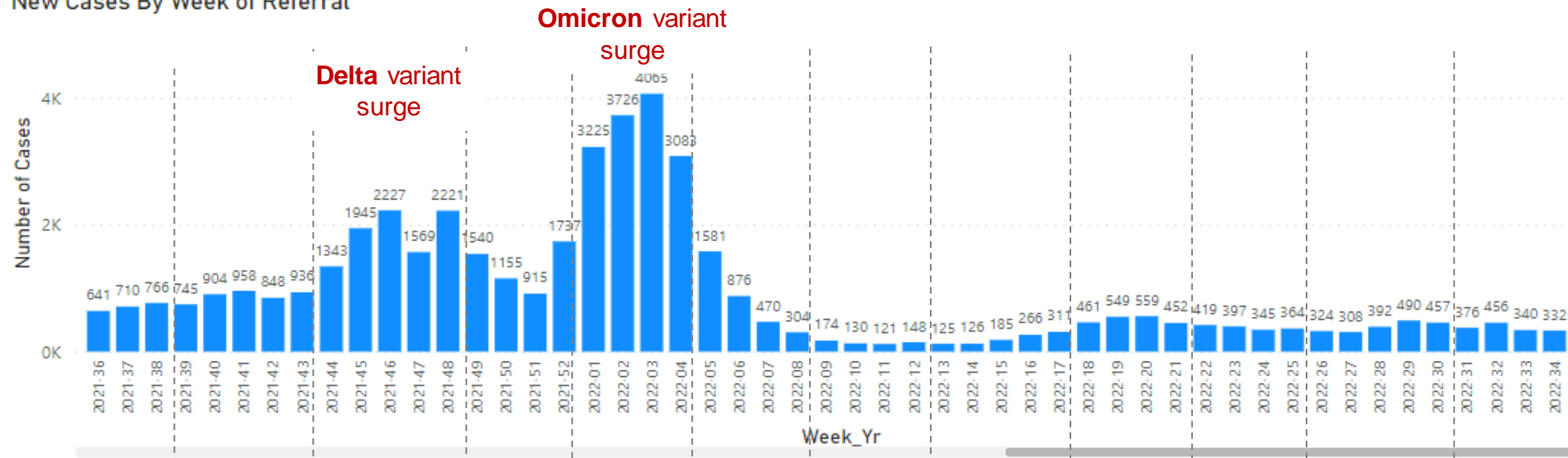
Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower case rates.

Source: Internal Data

Data through August 31, 2022

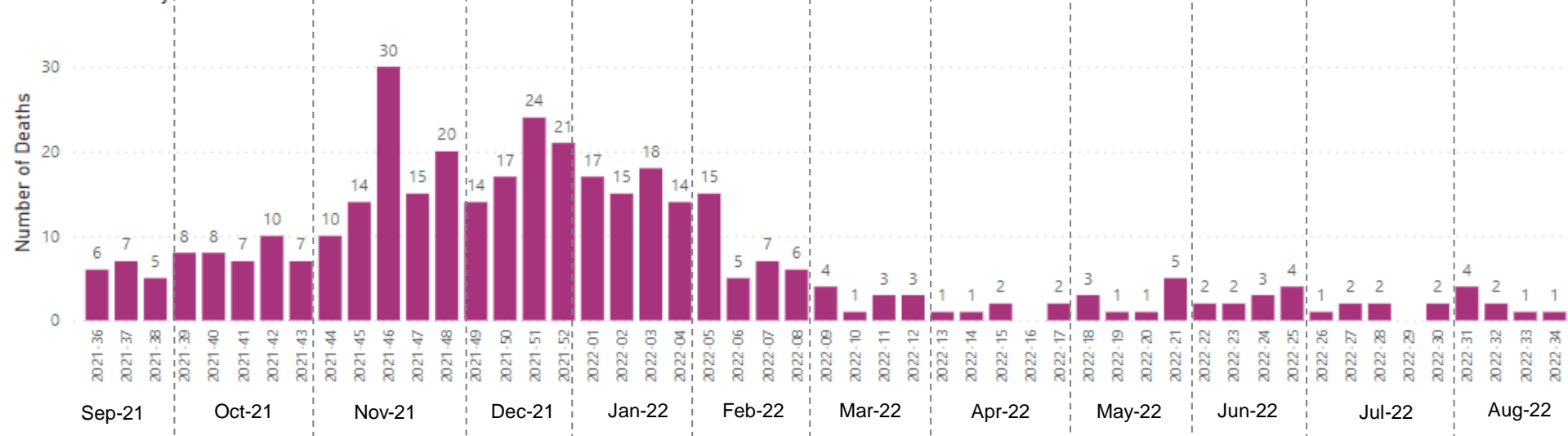
Ottawa County – Cases & Deaths by Week, All Ages

New Cases By Week of Referral



The weekly number of **cases decreased 2%** from week 33 to week 34.

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 **2 deaths per week**.

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.

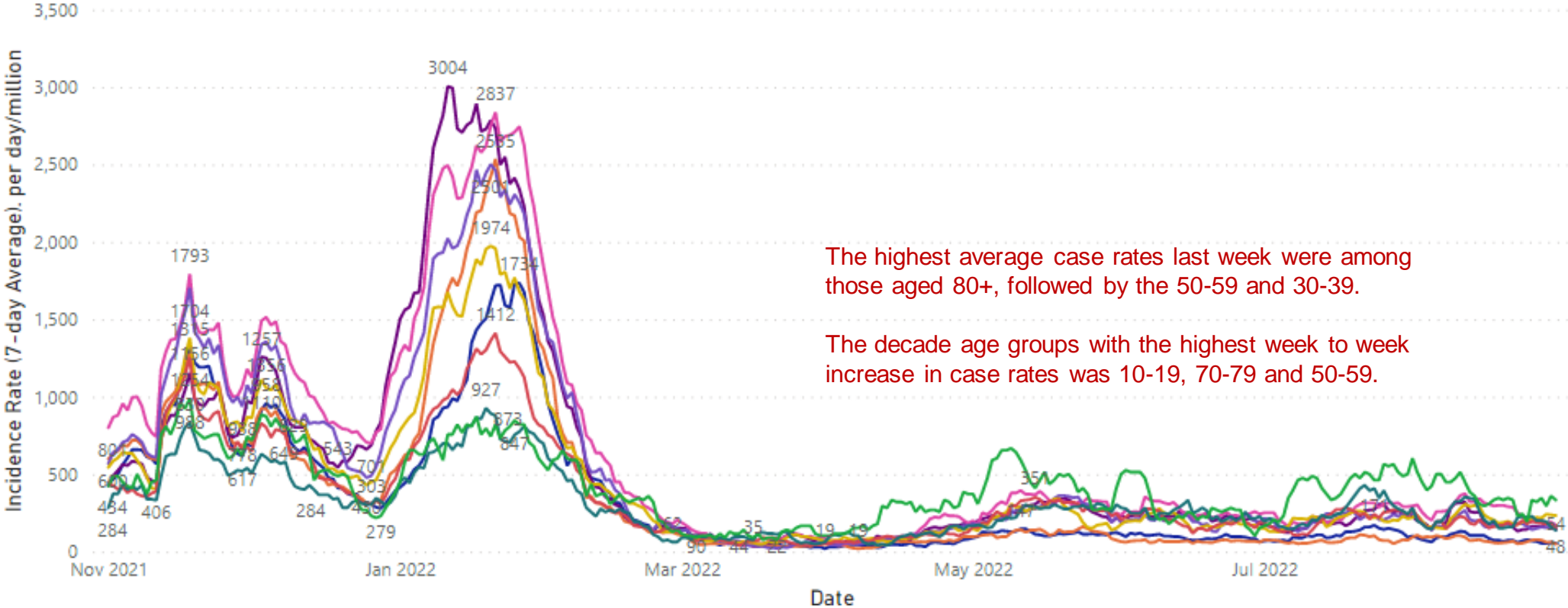
Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Ottawa County Case Rate Trends by Age Decade

COVID-19 Case Rates by Age, November 2021 – August 31, 2022

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+, followed by the 50-59 and 30-39.

The decade age groups with the highest week to week increase in case rates was 10-19, 70-79 and 50-59.

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 August 31, 2022

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 32 (August 21, 2022 – August 27, 2022)

Age Decade (Years)	Average Daily Cases	Average Daily Case Rate	One Week % Rate Change
0-9	2.4	66.0	0%
10-19	3.4	77.5	33%
20-29	7.4	164.3	-5%
30-39	7.6	211.2	-29%
40-49	5.0	150.6	-15%
50-59	7.7	221.0	17%
60-69	6.0	184.1	8%
70-79	4.1	200.5	32%
80+	3.6	320.7	-4%

Age groups with highest average case rates last week:

1. 80+
2. 50-59
3. 30-39

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

1. 10-19
2. 70-79
3. 50-59

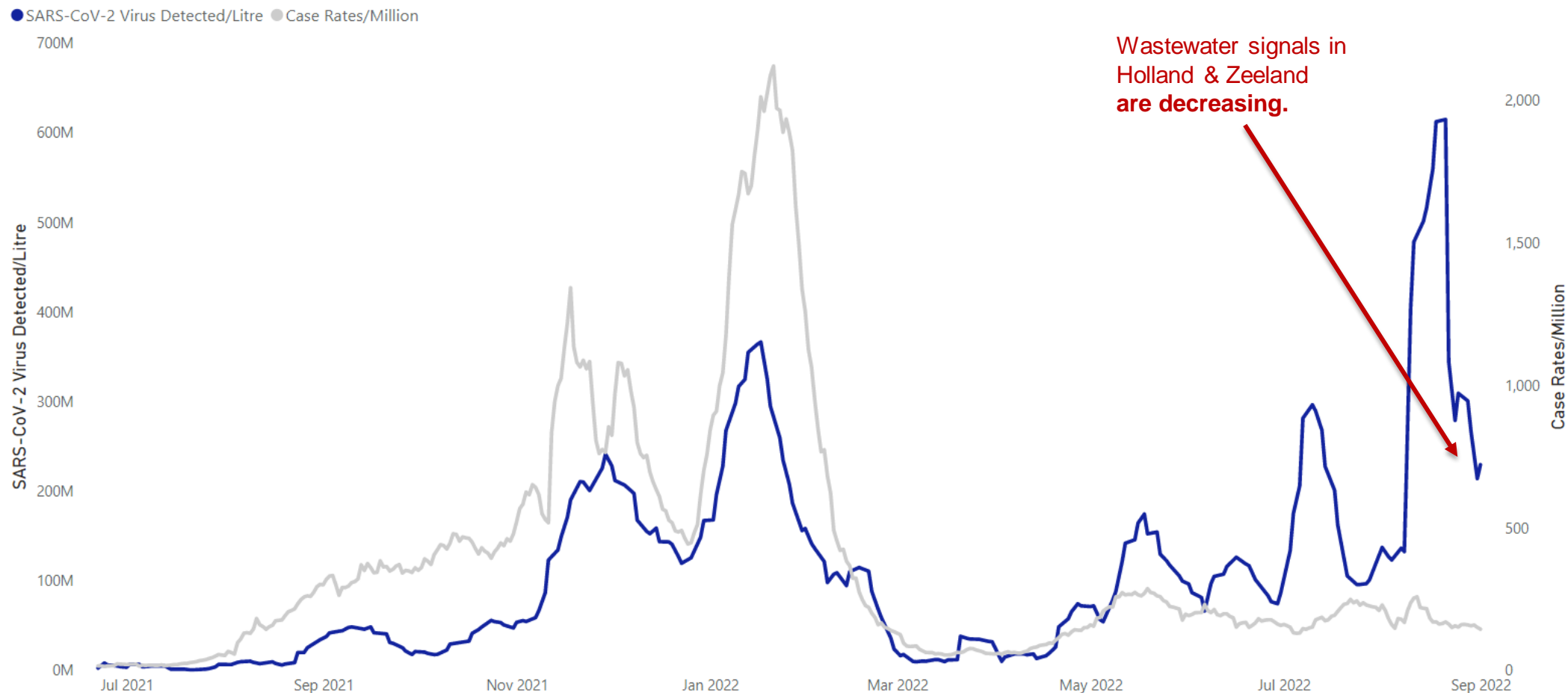
Notes: Average daily cases is calculated by summing the weekly total number of cases and dividing by seven. Cases counted in weeks of interest reflect referral date. Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in artificially lower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

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

Data as of August 31, 2022

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 are decreasing.

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)

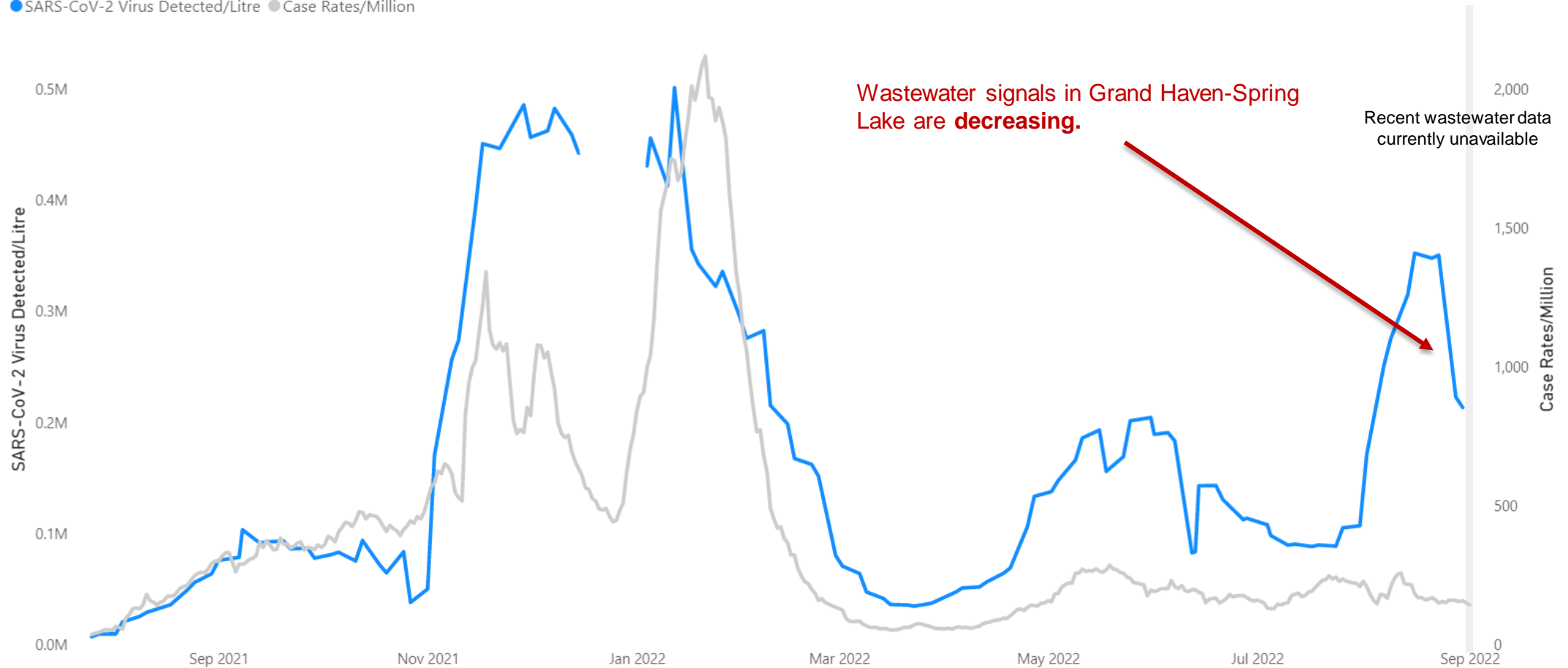
Additional Information: [Michigan COVID-19 Wastewater Surveillance Pilot Project \(arcgis.com\)](https://arcgis.com), [Coronavirus - Sentinel Wastewater Epidemiology Evaluation Project \(SWEEP\) \(michigan.gov\)](https://michigan.gov)

Data through September 1, 2022

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.

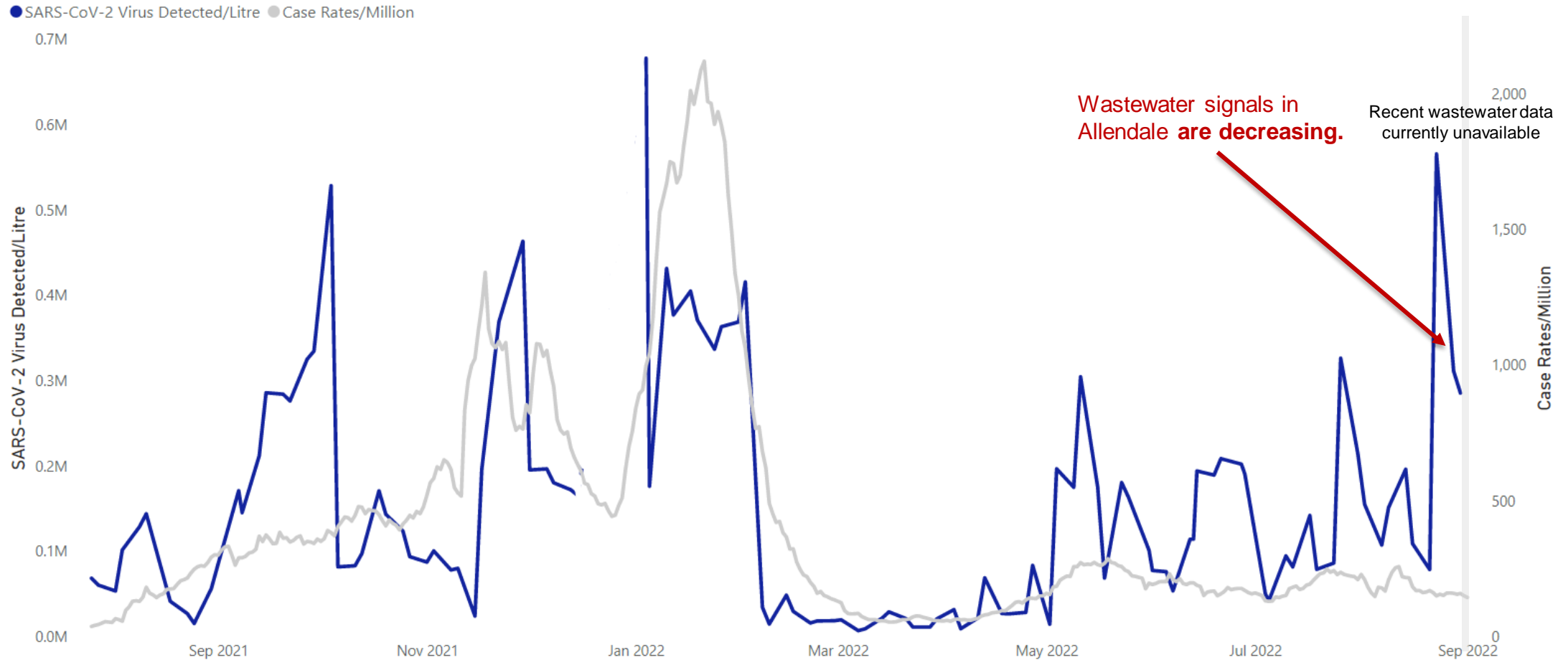
Source: Grand Valley State University Annis Water Resources Institute as part of the MDHHS SEWER-Network, Richard Rediske, Ph.D. (redisker@gvsu.edu)

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 August 30, 2022

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 August 30, 2022

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
18-Jun-22	314	-12%	31	-23%	345	-13%
25-Jun-22	331	5%	33	6%	364	6%
2-Jul-22	292	-12%	32	-3%	324	-11%
9-Jul-22	274	-6%	34	6%	308	-5%
16-Jul-22	354	29%	38	12%	392	27%
23-Jul-22	428	21%	62	63%	490	25%
30-Jul-22	412	-4%	45	-27%	457	-7%
6-Aug-22	330	-20%	46	2%	376	-18%
13-Aug-22	417	26%	39	-15%	456	21%
20-Aug-22	313	-25%	27	-31%	340	-25%
27-Aug-22	306	-2%	26	-4%	332	-2%

Weekly case counts among **children decreased 4%** last week, and cases in **adults decreased 2%**.

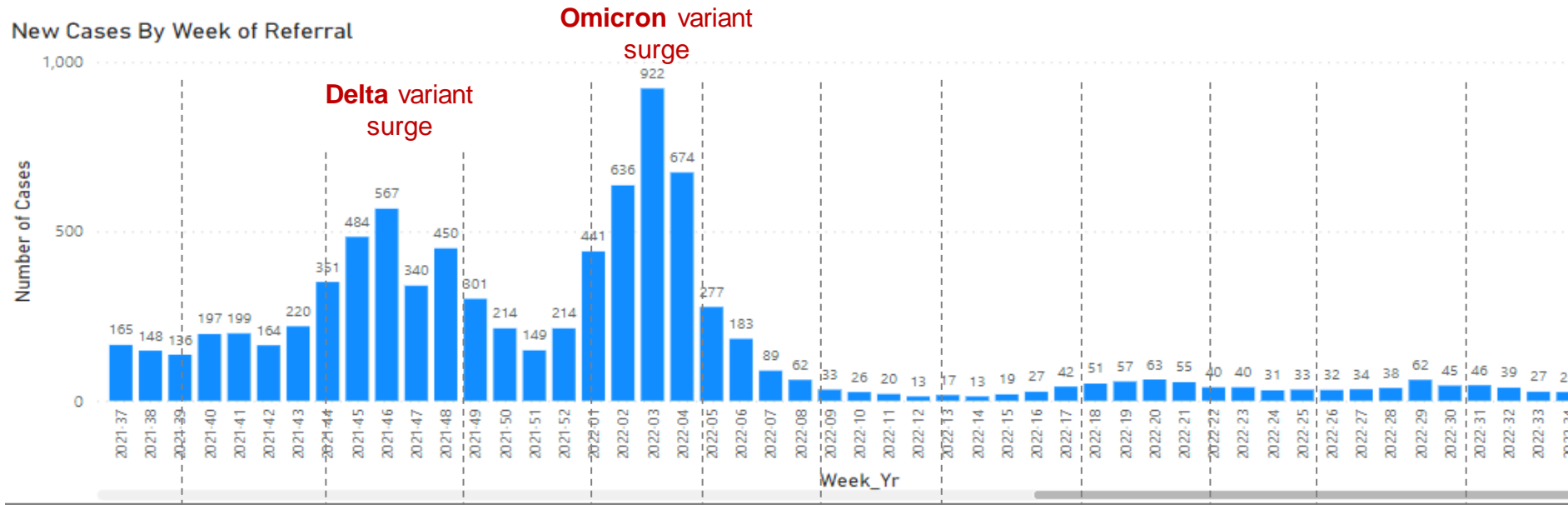
Adults

Children

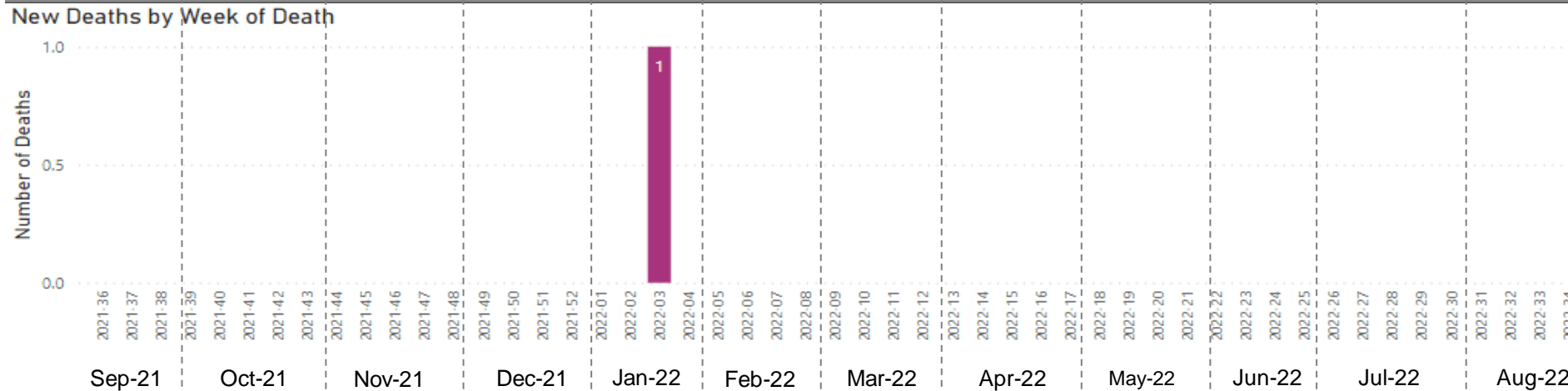
Note: Use of at home tests since late 2021 likely reduces the number of positive tests reported to Public Health, resulting in an artificially lower number of cases.

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

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



The weekly number of cases among children **decreased 4%** from week 33 to week 34.



The first COVID-19 associated death in a child occurred in January of 2022. The death was identified as a COVID-19 associated death in June of 2022, after the death certificate was completed.

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.

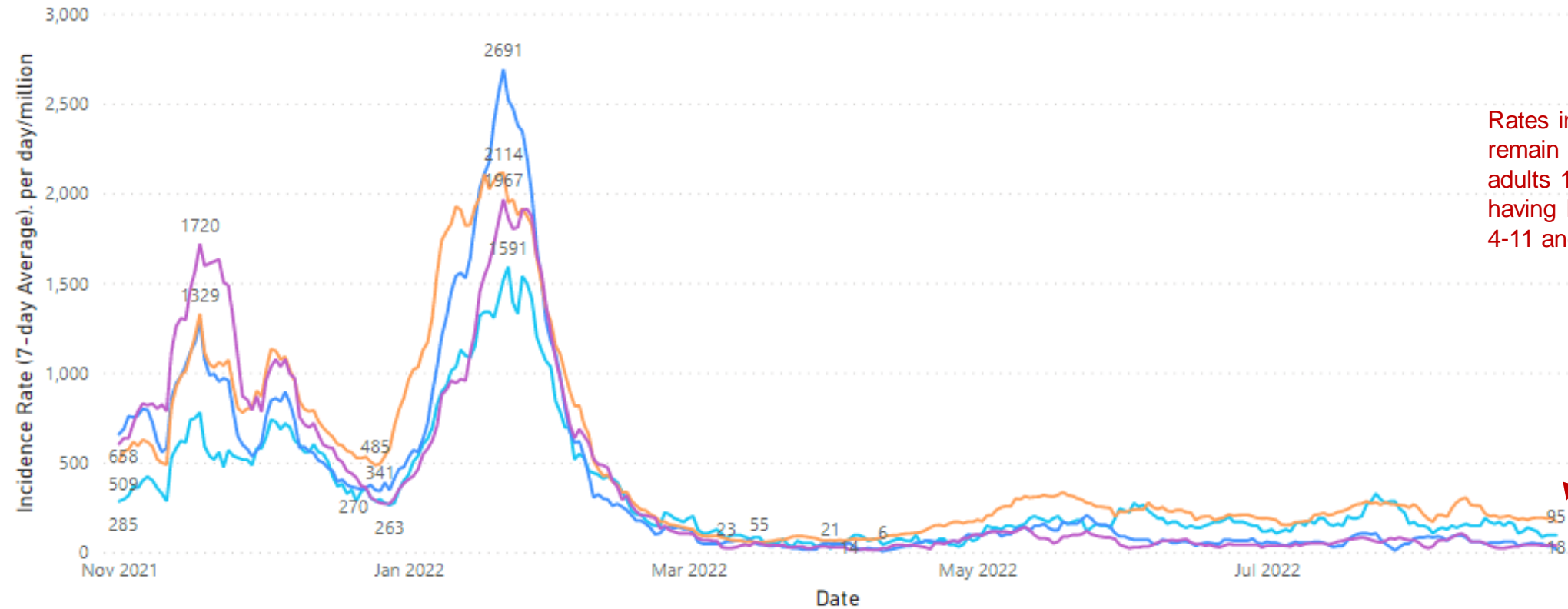
Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Ottawa County - Case Rate Trends – by Age

COVID-19 Case Rates by Age, includes School-Aged, November 2021 – August 31, 2022

Incidence Rate (7-day Average)

rategroup ● 0-3 ● 12-17 ● 18+ ● 4-11



Rates in all age groups remain relatively low, with adults 18+ and those 0-3 having higher rates than the 4-11 and 12-17 age groups.

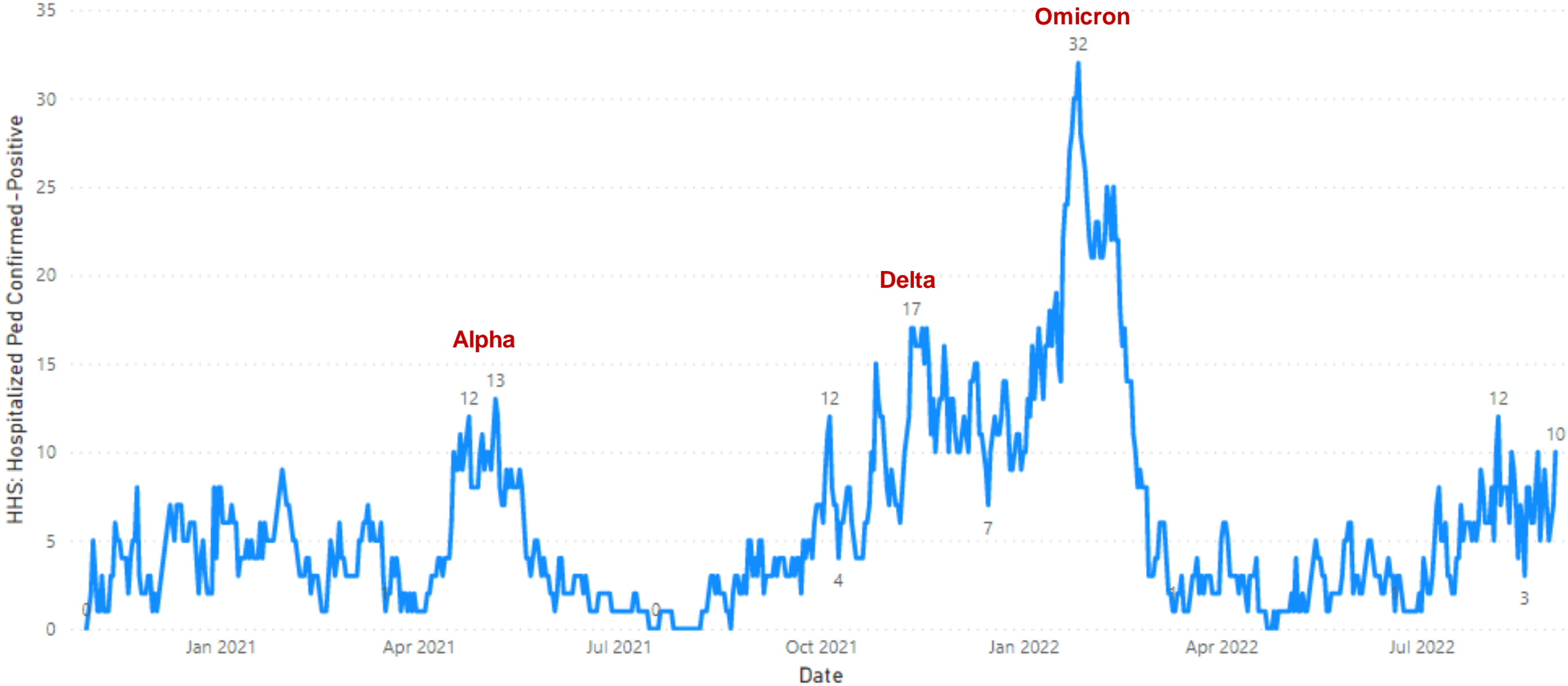
Data as of August 31, 2022

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

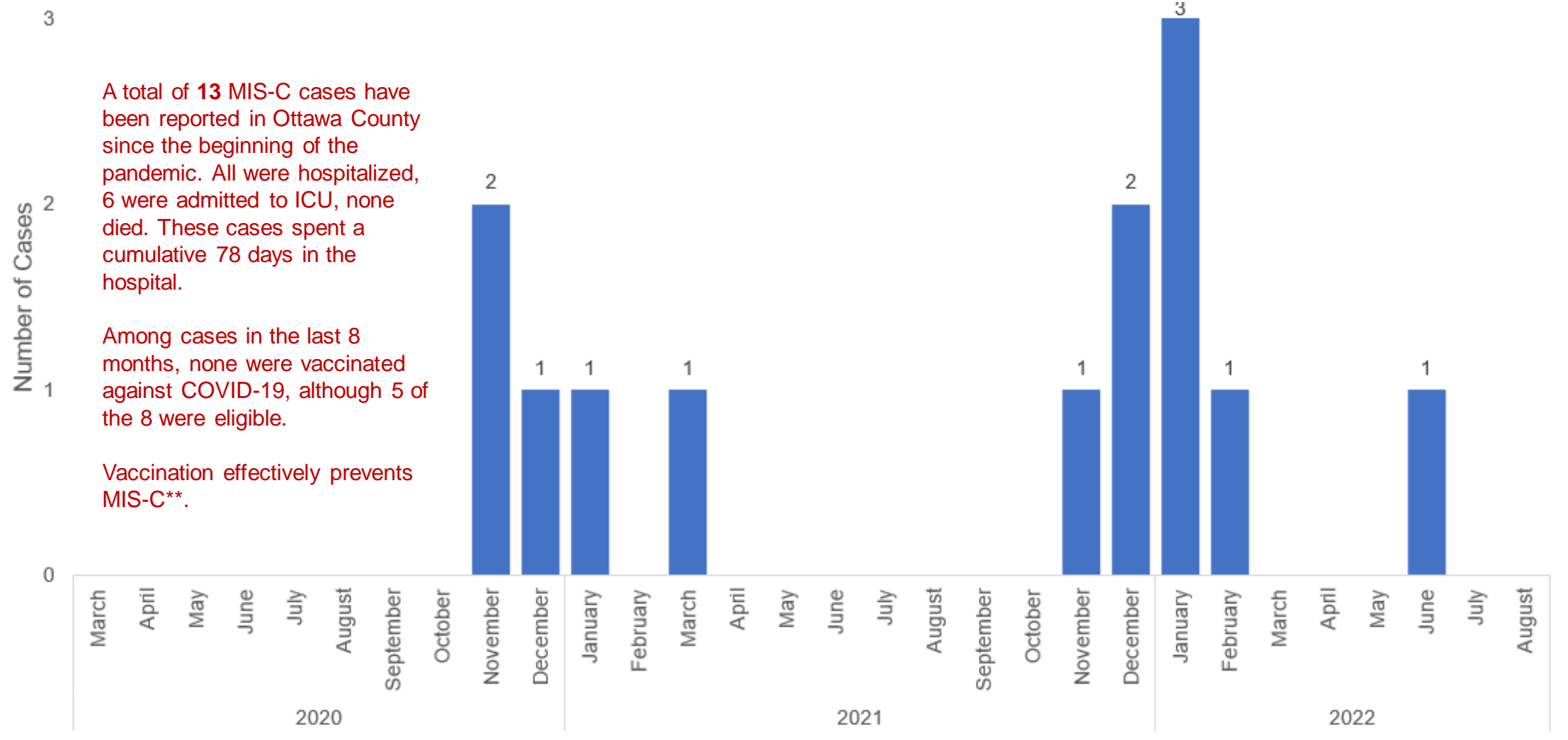
HHS: Hospitalized Ped Confirmed-Positive by Date



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 August 31, 2022

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. All were hospitalized, 6 were admitted to ICU, none died. These cases spent a cumulative 78 days in the hospital.

Among cases in the last 8 months, none were vaccinated against COVID-19, although 5 of the 8 were eligible.

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>

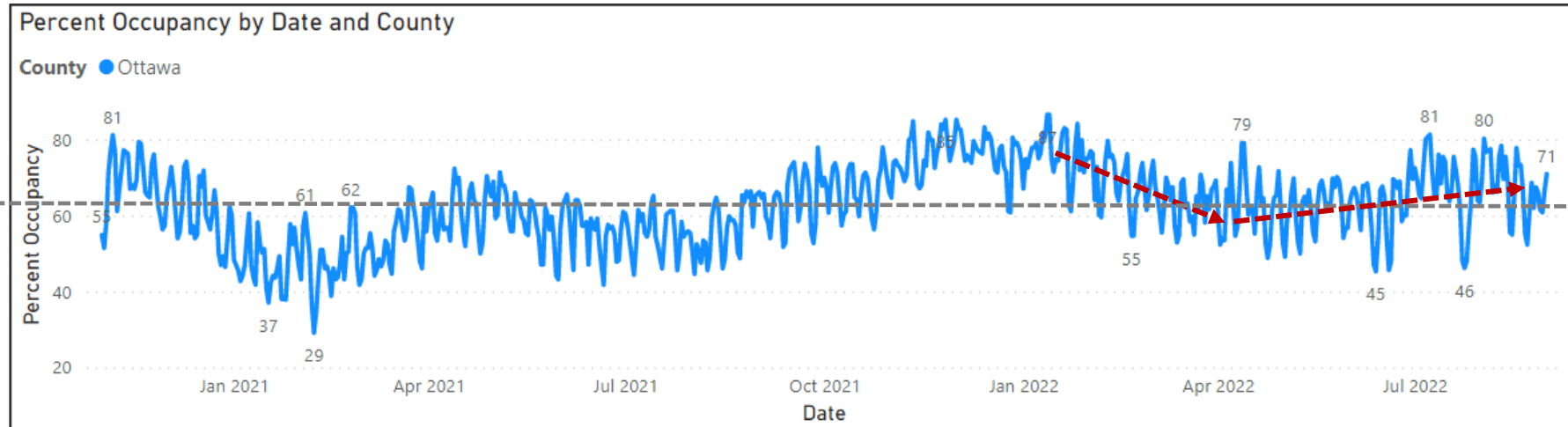
**Sources: [MMWR](#) & [The Lancet](#)

Data through August 31, 2022

Ottawa County Hospital Capacity – All Beds

Pandemic Average

62%



Total hospital bed occupancy is currently **above the pandemic average**.

COVID Inpatient Bed Occupancy (COVID Patients Only, Confirmed and Suspected)

12%



Currently **6%** of all inpatient beds are occupied by COVID-19 patients.

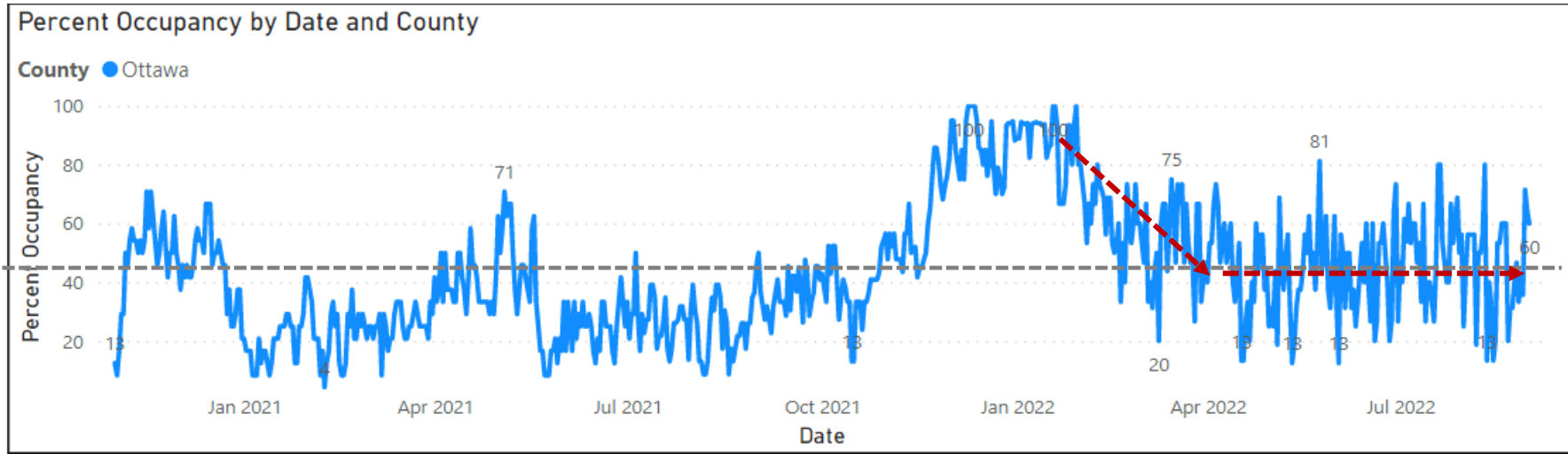
Source: EMResources

Data through August 31, 2022

Ottawa County Hospital Capacity – ICU Beds

Pandemic Average

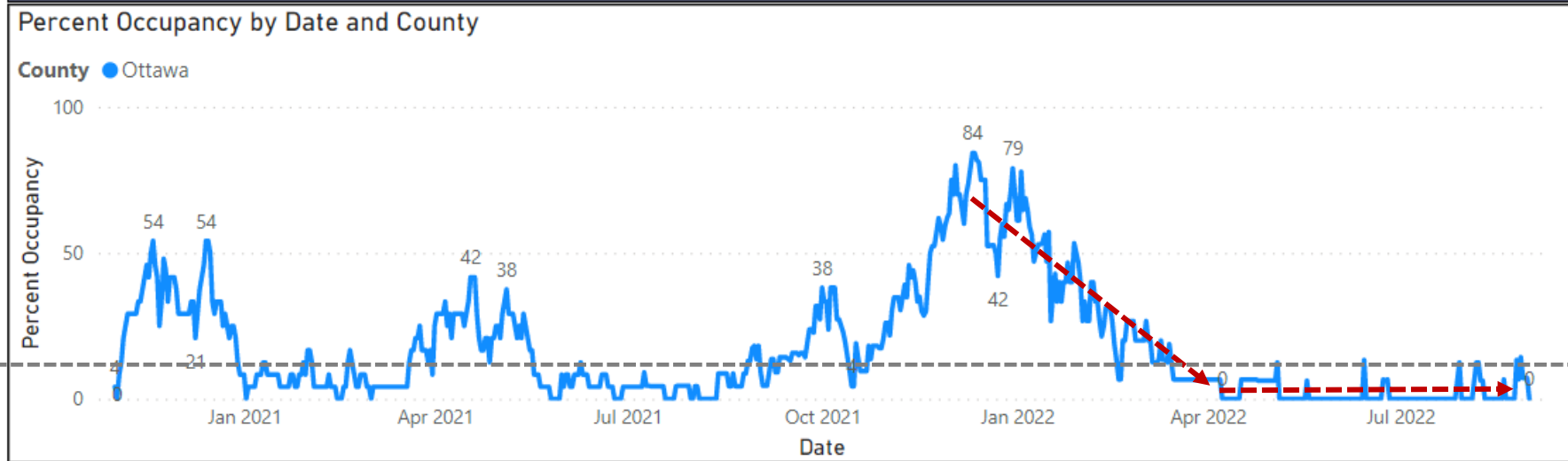
42%



Total ICU bed occupancy varies considerably by day. As of late August, ICU bed occupancy was **above the pandemic average**

COVID ICU Bed Occupancy (COVID Patients Only, Confirmed and Suspected)

18%



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

Source: EMResources

Data through August 31, 2022

Ottawa County Age-Standardized Rates of COVID-19 Cases, Hospitalizations, & Deaths by Vaccination Status

Unvaccinated people aged 5 years and older had:

4.3x

Risk of Becoming a COVID-19 Case

AND

10.9x

Risk of Dying from COVID-19

8.7 x

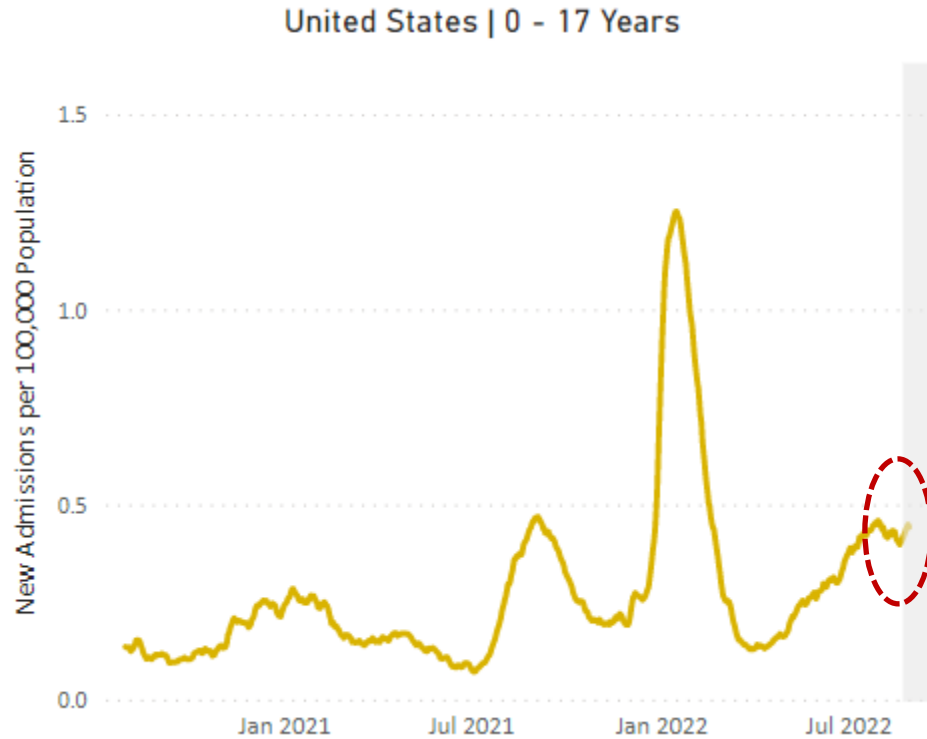
Risk of Being Hospitalized for COVID-19

in August 2022, compared to people vaccinated with at least a primary series.

Notes: For comparison to the nation please see: <https://covid.cdc.gov/covid-data-tracker/#rates-by-vaccine-status>

Methods: Both probable and confirmed cases were included, denominators were obtained from CDC Wonder (2019), and standardized population is 2000 US population. Methods may be refined, resulting in updated data.

Pediatric Hospitalization Rates – USA, Michigan



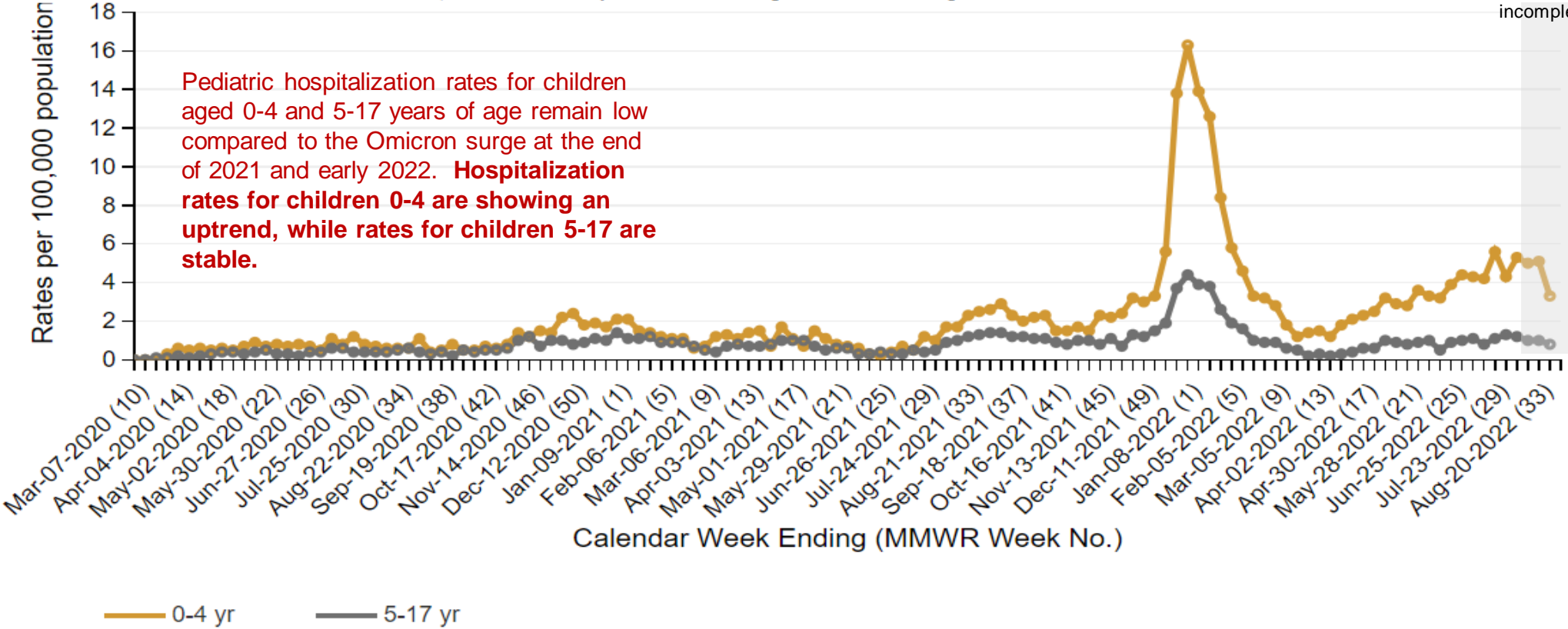
Pediatric hospitalization rates across the US continue increasing. **Rates in Michigan may also be increasing.**

Pediatric Hospitalization Rates by Age Group – USA

COVID-NET :: Entire Network :: 2020-21 :: Weekly Rate

To zoom, hold down Alt key and click and drag to create a rectangle. Double click to reset zoom.

Recent data may be incomplete



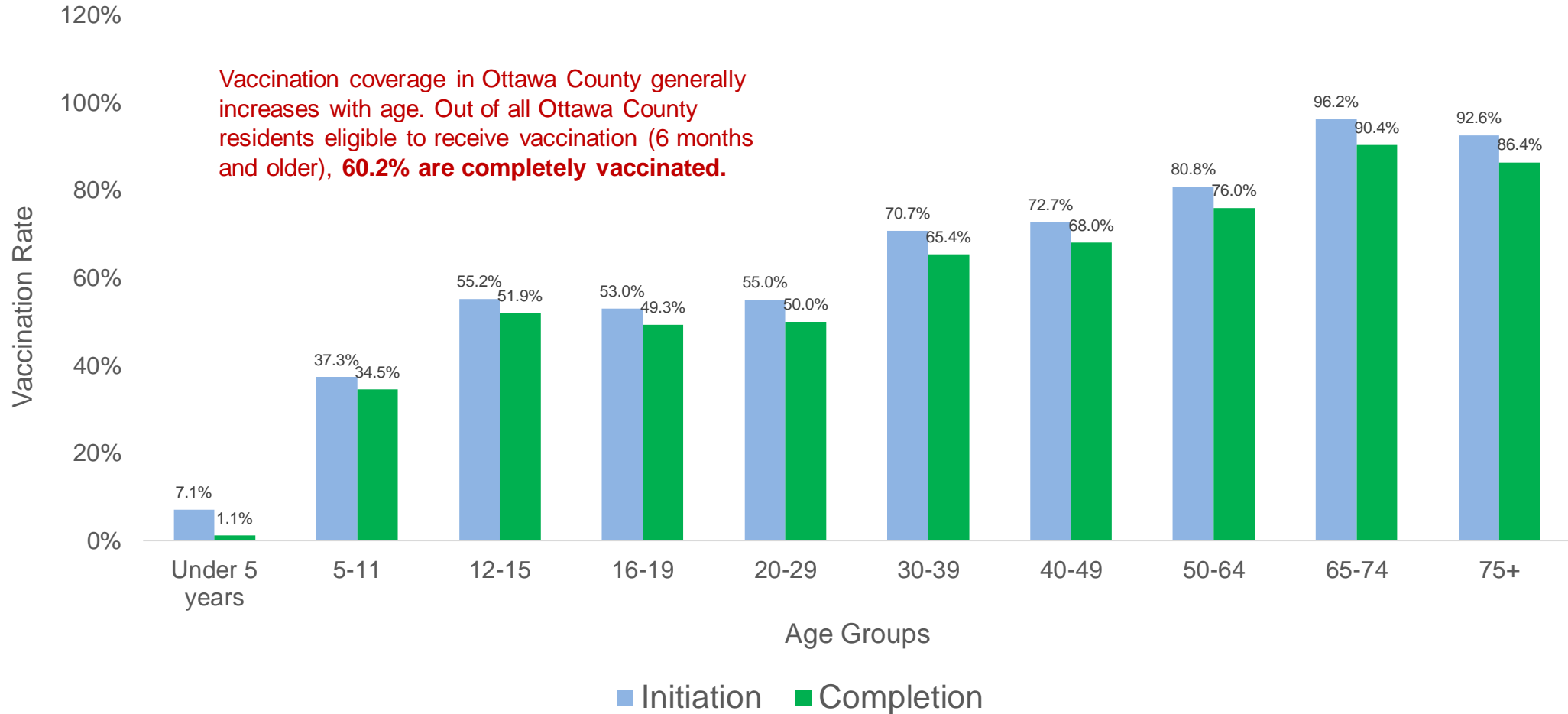
The Coronavirus Disease 2019 (COVID-19)-Associated Hospitalization Surveillance Network (COVID-NET) hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. Lag for COVID-NET case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

Starting MMWR week 48, MD data are temporarily removed from weekly rate calculations.

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

Accessed September 1, 2022

Vaccination Coverage by Age



Notes:

Completion is the percentage of people receiving at least 2 doses of Pfizer or Moderna or 1 dose of J&J.

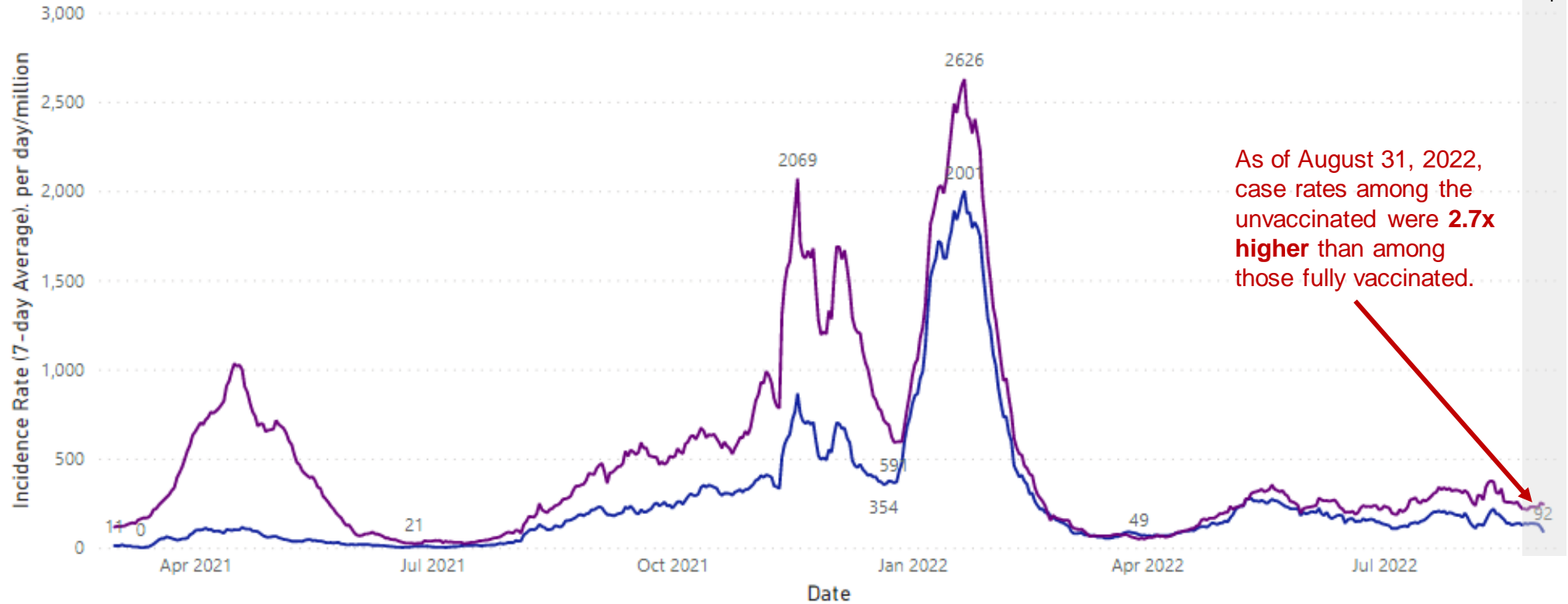
Source: <https://www.michigan.gov/coronavirus/resources/covid-19-vaccine/covid-19-dashboard>

Data through August 31, 2022

Ottawa County COVID-19 Vaccination Breakthrough Case Trends

Incidence Rate (7-day Average)

rategroup ● Fully Vaccinated ● Unvaccinated



Recent data may be incomplete

As of August 31, 2022, case rates among the unvaccinated were **2.7x higher** than among those fully vaccinated.

Method: Daily case counts were obtained from the MDSS and summarized by referral date. Cases were compared to data from the State of Michigan immunization database to confirm COVID-19 vaccination status. Counts of persons completely vaccinated in Ottawa County were compiled from the Michigan COVID-19 vaccination dashboard. The total population denominator was obtained from CDC Wonder; the 2019 population estimate was used. Daily COVID-19 case rates were calculated and averaged over the previous 7 days; a rate of cases per day per million population was used. Cases ineligible for vaccination are included in this data. On December 22, 2021 this figure was updated to compare fully vaccinated and unvaccinated persons, to align more closely with [CDC data](#); partially vaccinated persons were excluded. Fully vaccinated is defined as 2 or more doses of an mRNA vaccination or at least one dose of J&J.

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. Children aged 6 months to 4 years to be included in future reports.

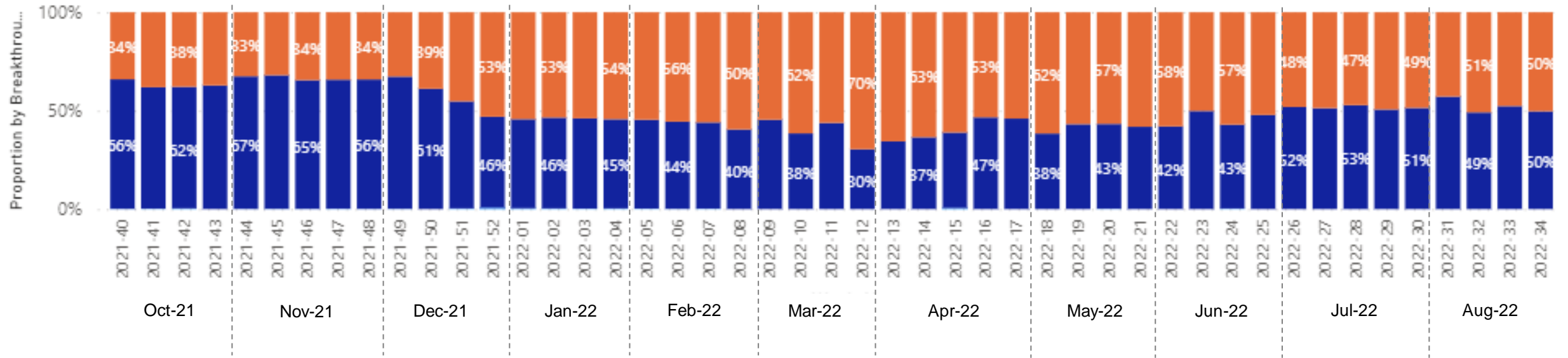
Sources: Michigan Department of Health and Human Services, Michigan Disease Surveillance System
 MDHHS COVID-19 Dashboard: <https://www.michigan.gov/coronavirus/stats>

Ottawa County COVID-19 Vaccination Breakthrough Case Trends

By Week

Breakthrough Proportions by Week

Vaccine_Breakthrough ● NO ● YES

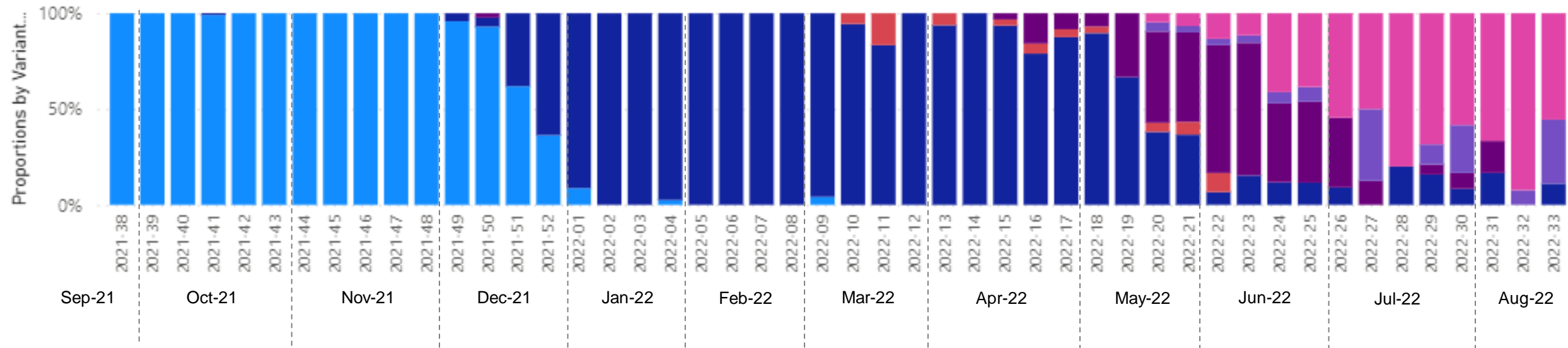


Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Variants – Clinical Samples from Ottawa County Residents

Variant Proportions by Week

Variant Name ● Alpha ● Delta ● Epsilon ● Gamma ● Omicron ● Omicron BA.2 ● Omicron BA.2.12.1 ● Omicron BA.4 ● Omicron BA.5



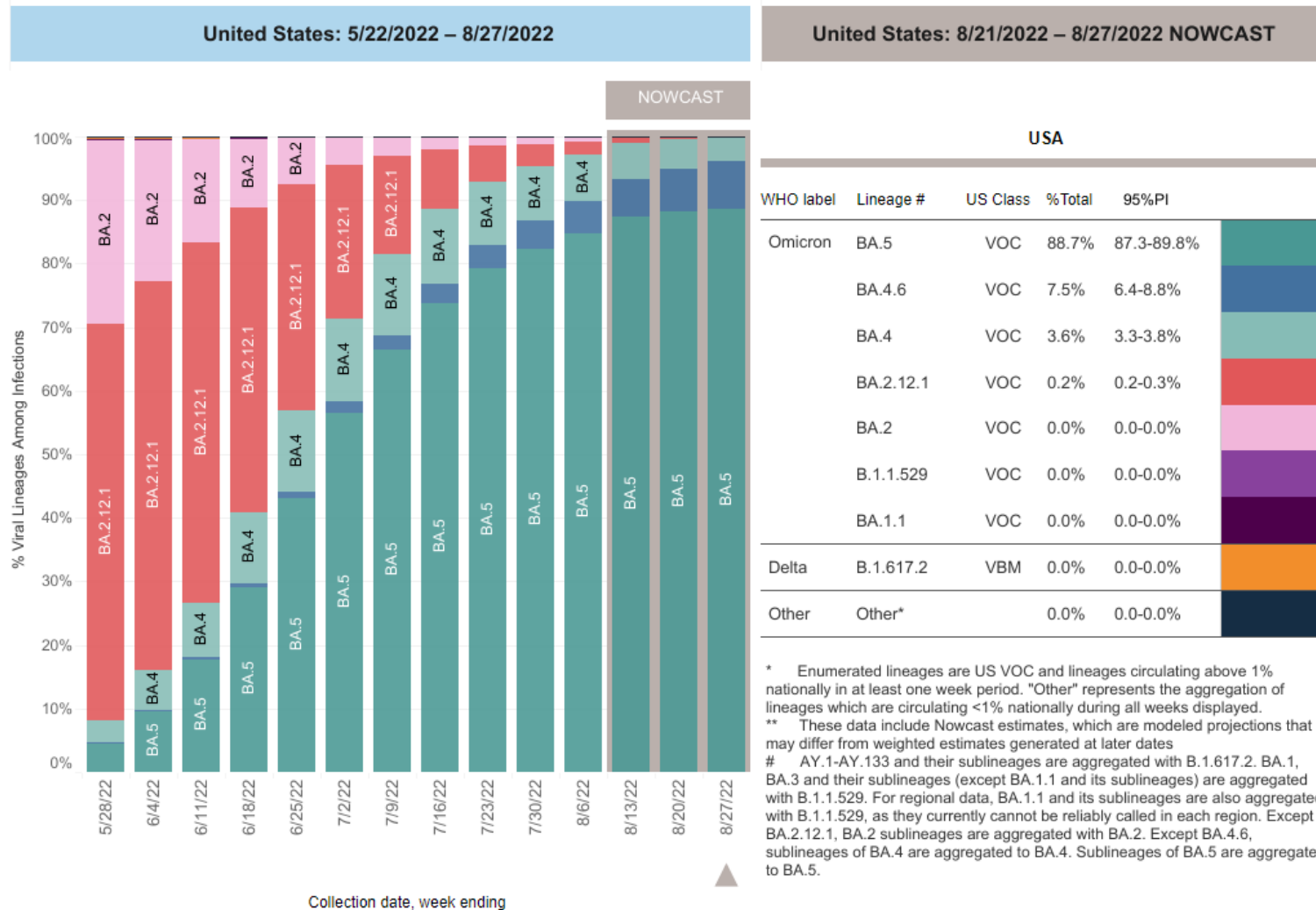
By the end of July 2021, all clinical samples* tested were identified as the **Delta** variant and from late July through early December 2021, all clinical samples submitted for variant testing continued to be identified as the **Delta** variant.

In mid-December 2021, the first **Omicron** positive sample was collected in an Ottawa County resident, and **Omicron** continues to be detected into 2022, with more recent additions of the **Omicron subvariants** BA.2.12.1 and BA.4/5 (first detected in clinical samples in late May 2022).

* 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



The **Omicron** variant and its subvariants are estimated to account for 100% of all clinical samples collected in the United States the week ending August 27, 2022.

The BA.5 subvariant currently predominates.

Variants – Wastewater Sampling – Holland/Zeeland

Y = Detected
N = Not Detected

Sample Date	Site	Delta	Omicron
07/03/2022	North Holland	N	Y
07/04/2022	Zeeland	N	Y
07/06/2022	North Holland	N	Y
07/10/2022	North Holland	N	Y
07/11/2022	Zeeland	N	Y
07/13/2022	North Holland	N	Y
07/14/2022	Zeeland	N	Y
07/17/2022	North Holland	N	Y
07/18/2022	Zeeland	N	Y
07/21/2022	Zeeland	N	Y
07/21/2022	North Holland	N	Y
07/24/2022	North Holland	N	Y
07/25/2022	Zeeland	N	Y
07/27/2022	North Holland	N	Y
07/28/2022	Zeeland	N	Y
07/31/2022	North Holland	N	Y
08/01/2022	Zeeland	N	Y
08/03/2022	North Holland	N	Y
08/04/2022	Zeeland	N	Y
08/07/2022	North Holland	N	Y
08/08/2022	Zeeland	N	Y
08/10/2022	North Holland	N	Y
08/11/2022	Zeeland	N	Y
08/14/2022	North Holland	N	Y
08/15/2022	Zeeland	N	Y
08/17/2022	North Holland	N	Y
08/18/2022	Zeeland	N	Y
08/24/2022	North Holland	N	Y
08/25/2022	Zeeland	N	Y
08/28/2022	North Holland	N	Y
08/29/2022	Zeeland	N	Y

The **Delta** variant was consistently detected in Holland and Zeeland wastewater samples through all of November and December of 2021 (data not displayed here).

The **Omicron** variant has been detected in wastewater in Holland and Zeeland since early January 2022, with renewed, frequent detection through May (January through June not displayed here). Detection remains consistent through July and August.

Source: Hope College Global Water Research Institute as part of the MDHHS SEWER-Network, Aaron Best, Ph.D. (best@hope.edu)

COVID-19 Community Levels

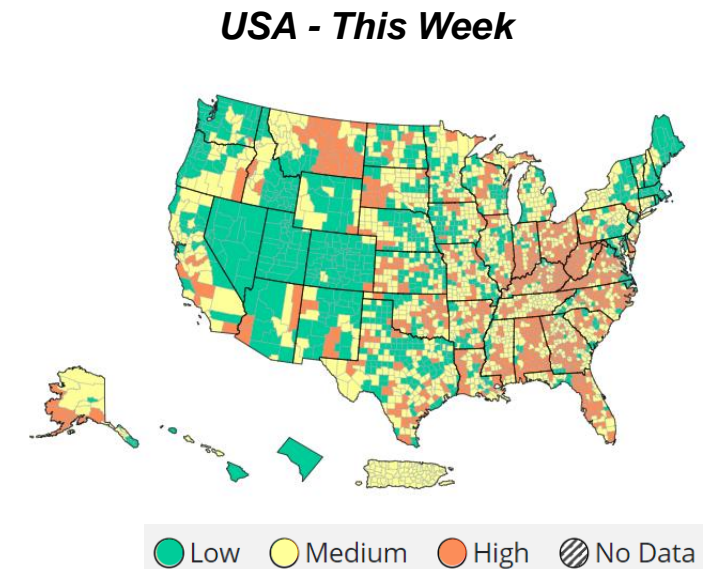
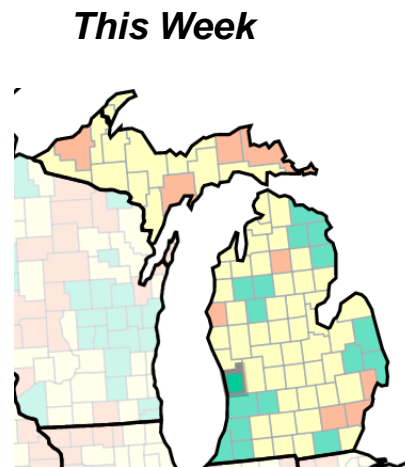
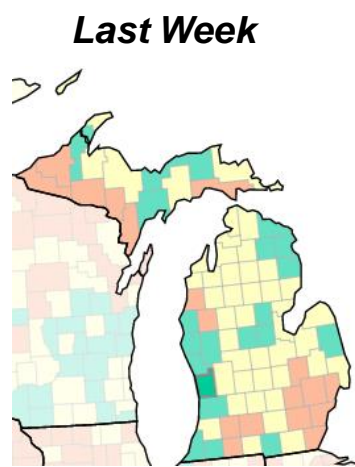
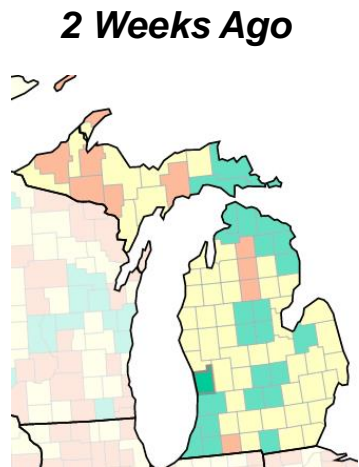
COVID-19 Community Levels – Use the Highest Level that Applies to Your Community				
New COVID-19 Cases Per 100,000 people in the past 7 days	Indicators	Low	Medium	High
Fewer than 200	New COVID-19 admissions per 100,000 population (7-day total)	<10.0	10.0-19.9	≥20.0
	Percent of staffed inpatient beds 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%

Note: The COVID-19 community level is determined by the higher of the new admissions and inpatient beds 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**
- Michigan CDC Community Levels can now be viewed on the [MI Safe Start Map](#)
- Current Data:
 - Case Rate (per 100k pop 7-day total) = **114.79**
 - COVID-19 Hospital Admissions (per 100K pop 7-day total) = **4.6**
 - COVID-19 Inpatient Hospital Bed Utilization (7-day average) = **6.5%**



COVID-19 Case Rates by County Across the US

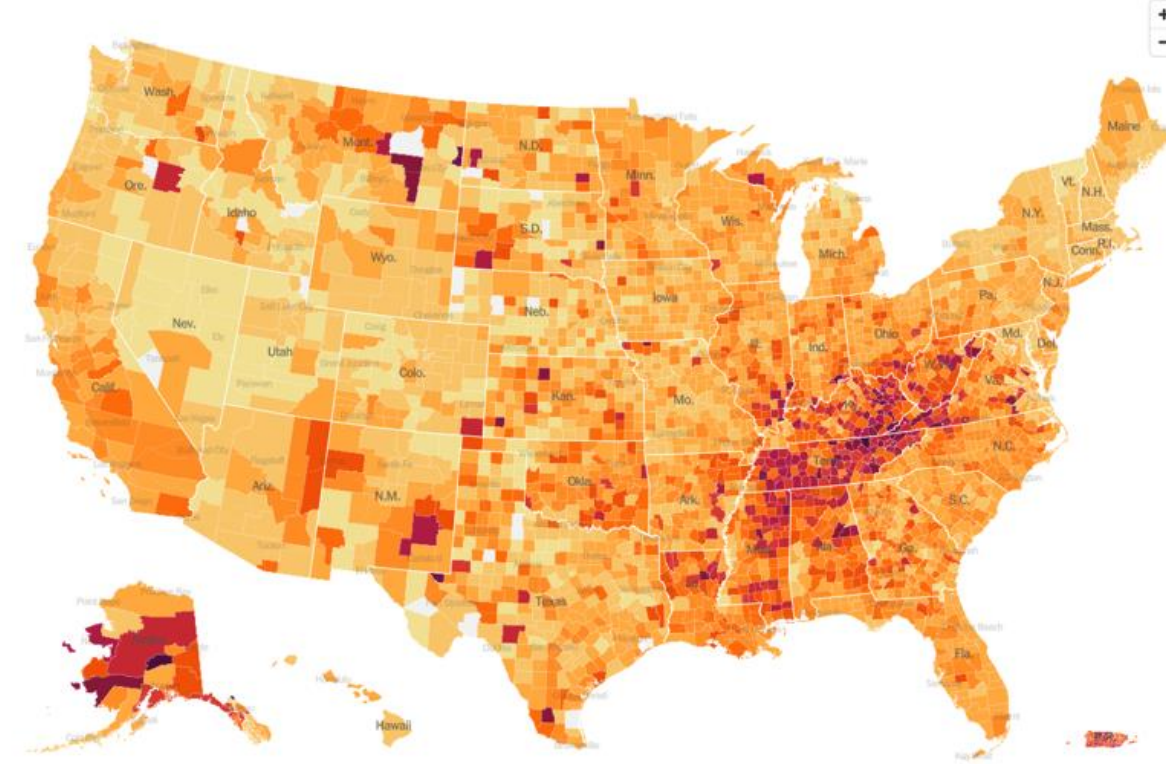
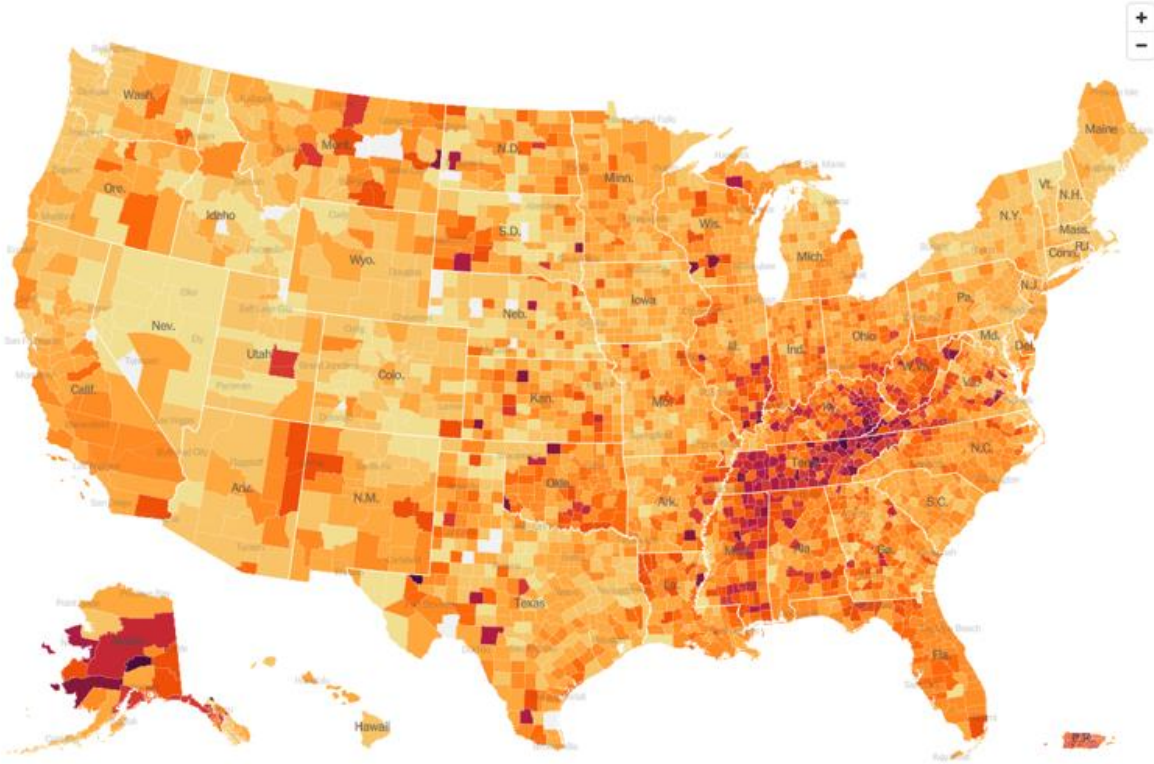
Last Week

This Week

Hot spots



Hot spots



Case rates across the nation
may be increasing.

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

Accessed August 30, 2022

USA & MI

Spread

Children

Hospitalizations

Vaccinations

Variants

Risk Levels

Other

Media

Science
Roundup

COVID-19 Hospitalization Rates by County Across the US

Last Week

This Week

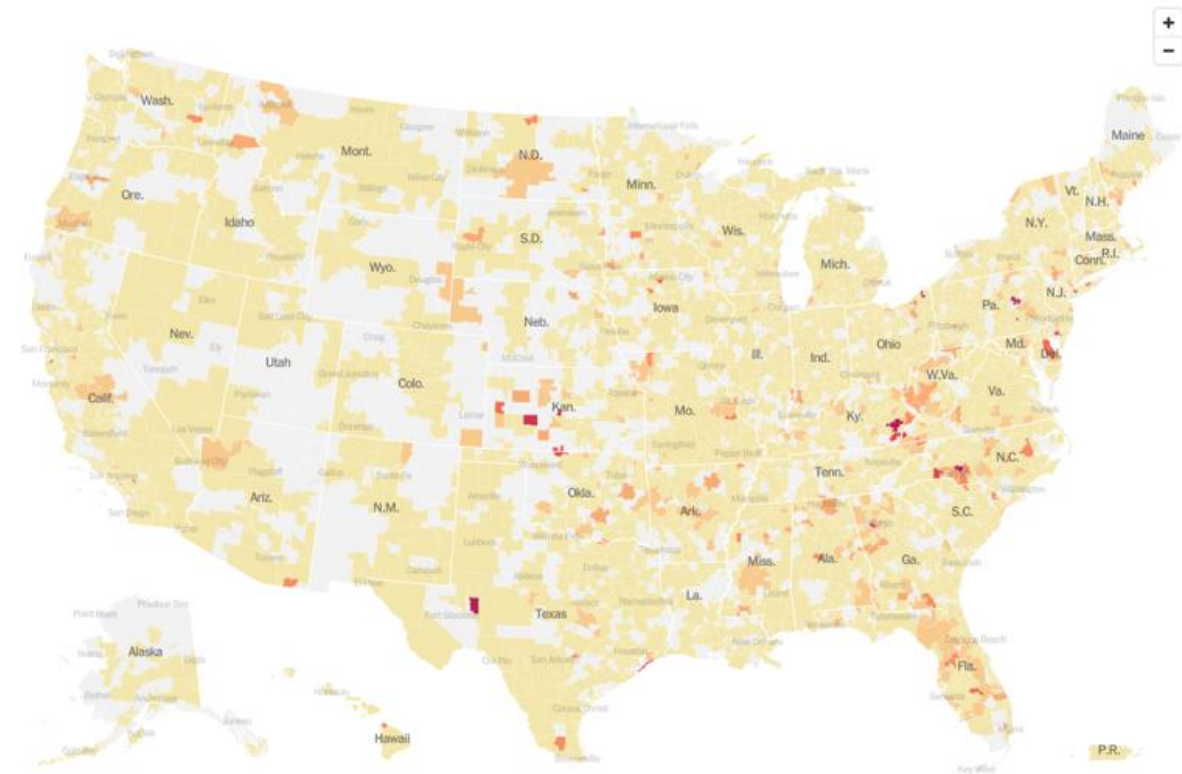
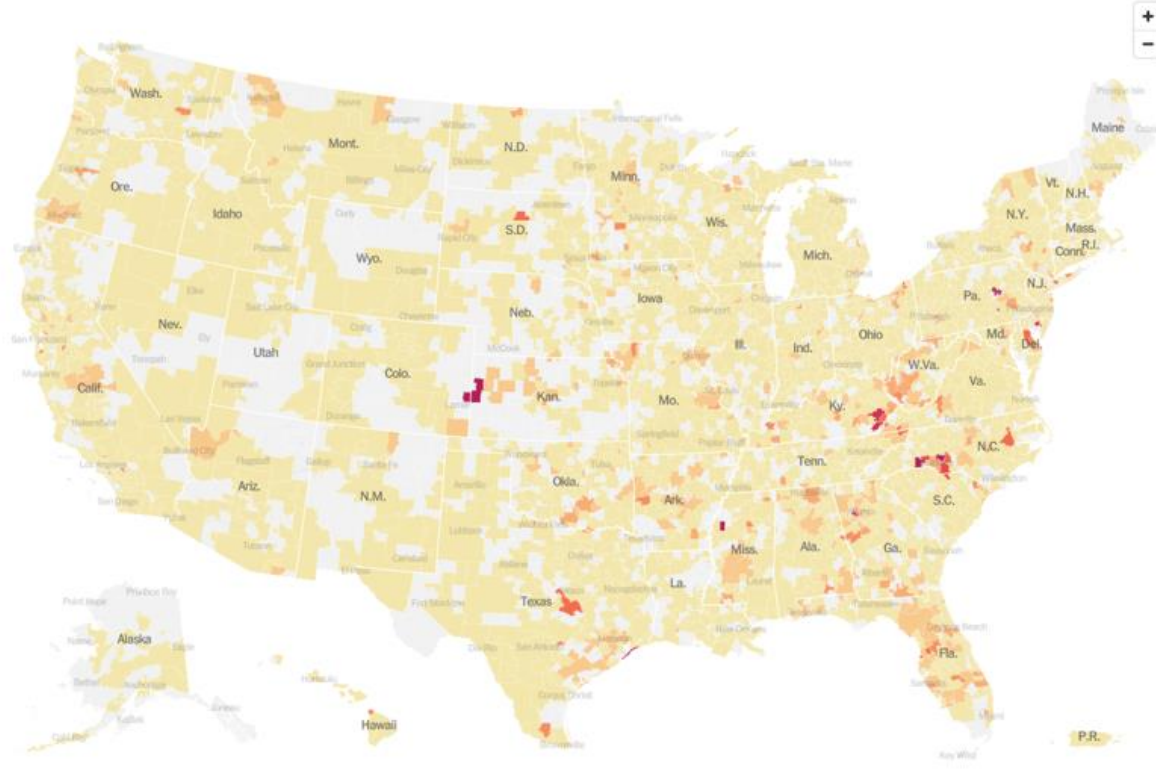
Current hospitalizations

COVID-19 PATIENTS PER 100,000 PEOPLE
20 30 40 50 60 70 80 NO DATA



Current hospitalizations

COVID-19 PATIENTS PER 100,000 PEOPLE
20 30 40 50 60 70 80 NO DATA



Hospitalization rates remain relatively low across most of the nation, with increases in some areas.

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

Accessed August 30, 2022

USA & MI

Spread

Children

Hospitalizations

Vaccinations

Variants

Risk Levels

Other

Media

Science Roundup

COVID-19 News Headlines

Michigan reports 19,414 new COVID cases, 135 new deaths

[Michigan reports 19,414 new COVID cases, 135 new deaths - mlive.com](#)

Spectrum Health relaxing COVID-era visitor restrictions at West Michigan hospitals

[Visitor rules relaxed at Spectrum Health West Michigan locations \(hollandsentinel.com\)](#)

US government to end free at-home Covid test program this week

[Free Covid-19 tests: US government to end at-home test program this week - CNNPolitics](#)

Coronavirus Tracker | CDC: 'High' COVID-19 risk drops to nine Michigan counties

[Michigan covid cases, coronavirus vaccine numbers, MI COVID-19 map | Bridge Michigan](#)

Pfizer and BioNTech Announce Updated COVID-19 Vaccine Data Supporting Efficacy in Children 6 Months through 4 Years of Age

[Pfizer and BioNTech Announce Updated COVID-19 Vaccine Data Supporting Efficacy in Children 6 Months through 4 Years of Age | Pfizer](#)

Coronavirus (COVID-19) Update: FDA Authorizes Moderna, Pfizer-BioNTech Bivalent COVID-19 Vaccines for Use as a Booster Dose

[FDA Authorizes Moderna, Pfizer-BioNTech Bivalent COVID-19 Vaccines for Use as a Booster Dose](#)

Science Roundup

Assessing the impact of COVID-19 on mortality: A population-based matched case-control study

[https://www.clinicalmicrobiologyandinfection.com/article/S1198-743X\(22\)00453-0/fulltext](https://www.clinicalmicrobiologyandinfection.com/article/S1198-743X(22)00453-0/fulltext)

← Results from this study from 2020 – prior to the availability of COVID-19 vaccinations – found that people that tested positive for COVID-19 had a threefold increased risk of death, regardless of underlying disorders.

Randomized Trial of Metformin, Ivermectin, and Fluvoxamine for Covid-19

[Randomized Trial of Metformin, Ivermectin, and Fluvoxamine for Covid-19 | NEJM](#)

← In this double-blind, randomized, placebo-controlled trial, investigators found that among overweight or obese outpatients with COVID-19, none of three repurposed drugs (metformin, ivermectin, and fluvoxamine) reduced the risk of serious disease including the occurrence of hypoxemia, ED visit, hospitalization, or death associated with COVID-19

Laboratory-Confirmed COVID-19–Associated Hospitalizations Among Adults During SARS-CoV-2 Omicron BA.2 Variant Predominance — COVID-19–Associated Hospitalization Surveillance Network, 14 States, June 20, 2021–May 31, 2022

[Laboratory-Confirmed COVID-19–Associated Hospitalizations Among Adults During SARS-CoV-2 Omicron BA.2 Variant Predominance — COVID-19–Associated Hospitalization Surveillance Network, 14 States, June 20, 2021–May 31, 2022 | MMWR \(cdc.gov\)](#)

← Findings in this report suggest that increased hospitalization rates among adults aged ≥65 years compared with rates among younger adults were most pronounced during the Omicron BA.2-predominant period. In addition, hospitalization rates among unvaccinated adults were approximately triple those of vaccinated adults.

Safety Monitoring of Pfizer-BioNTech COVID-19 Vaccine Booster Doses Among Children Aged 5–11 Years — United States, May 17–July 31, 2022

[Safety Monitoring of Pfizer-BioNTech COVID-19 Vaccine Booster Doses Among Children Aged 5–11 Years — United States, May 17–July 31, 2022 | MMWR \(cdc.gov\)](#)

← This study was conducted to analyze the effect of booster doses of BNT162b2 in US children aged 5-11 years old. The study showed that local and systemic reactions were common among the study participants after Pfizer-BioNTech third dose vaccination (e.g., injection site pain, fatigue, headache), but reports of serious adverse events were rare. No reports of myocarditis or death after 3rd dose were received.