

Ottawa County COVID-19 Epidemiology

November 3, 2021

Data as of October 30, 2021, unless otherwise indicated

Executive Summary

- **The US may be plateauing, while Michigan continues to increase**
- **Ottawa community transmission remains elevated**
 - Positivity increased to 17% over the last 2 weeks. The goal is to be less than 8%*.
 - Weekly case counts in Ottawa increased 9%, from 857 two weeks ago to 934 last week.
 - Cases among children increased 34%, from 165 two weeks ago to 221 last week.
- **Ottawa area and regional hospitals continue to see many COVID-19 patients**
 - In Ottawa County, 17% of all available beds are occupied by COVID-19 patients.**
 - About 30% of Ottawa County ICU beds are occupied by COVID-19 patients.**
 - At a large regional healthcare system, weekly hospital census for children with COVID-19 reached the highest level seen through the pandemic, a level attained only one other time in December 2020.
 - Staffing remains a challenge for many health systems.
 - In recent weeks more Ottawa County hospitals are reporting strain.
- **Pediatric hospitalizations across the US are improving, but some areas continue to see high hospitalization rates in children, including Michigan and other states in the Midwest**
- **Of eligible Ottawa County residents, 62% are completely vaccinated**

*After further analysis of Ottawa County case rate data, positivity data, and CDC Community Transmission Levels, on October 8, 2021, the Ottawa County Department of Public Health (OCDPH) relaxed one of the criteria that may be used to rescind the current school mask order. The criterion that set a threshold of a CDC Community Transmission Level of Low for 7 consecutive days was changed to a threshold of Moderate for 14 consecutive days.

**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.

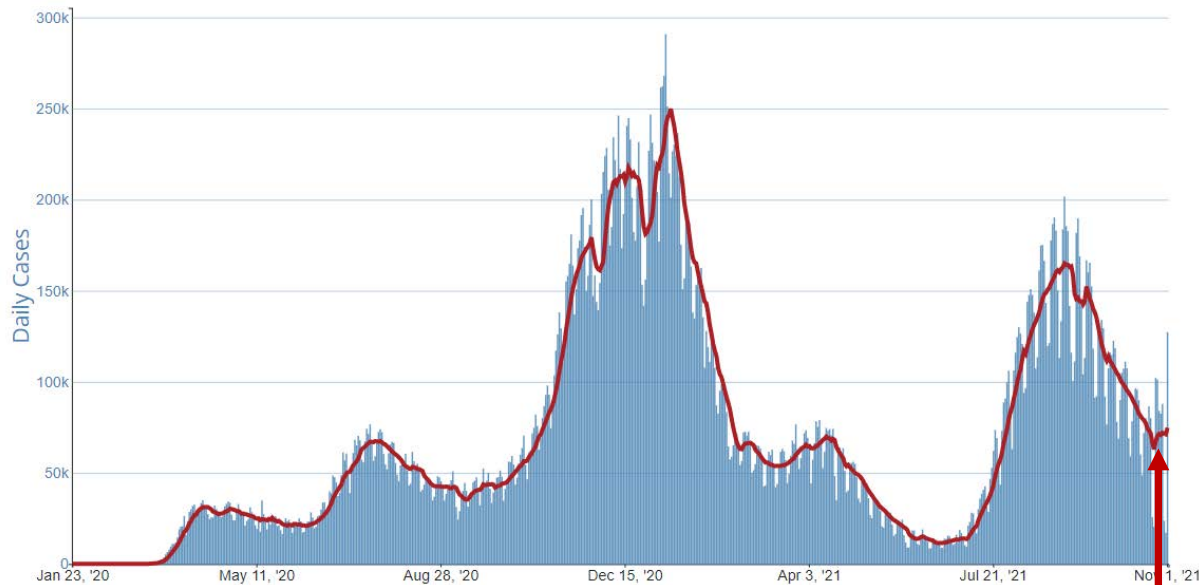
Ottawa County Metrics by Week

Metric	Goal	Week Ending				
		2-Oct-21	9-Oct-21	16-Oct-21	23-Oct-21	30-Oct-21
Positivity (All Ages)	<8%	12.0%	14.0%	16.0%	16.0%	17.3%
Weekly Cases (All Ages)	<147	744	912	966	857	934
Weekly Cases in Children (0-17 years of age)	NA	136	198	200	165	221
Total COVID-19 Hospitalizations (All Ages)	0	20	26	32	31	19
Total Deaths (All Ages)	0	8	8	9	8	4
CDC Risk Transmission Level	Moderate	High	High	High	High	High

Case Trends in the USA and Michigan

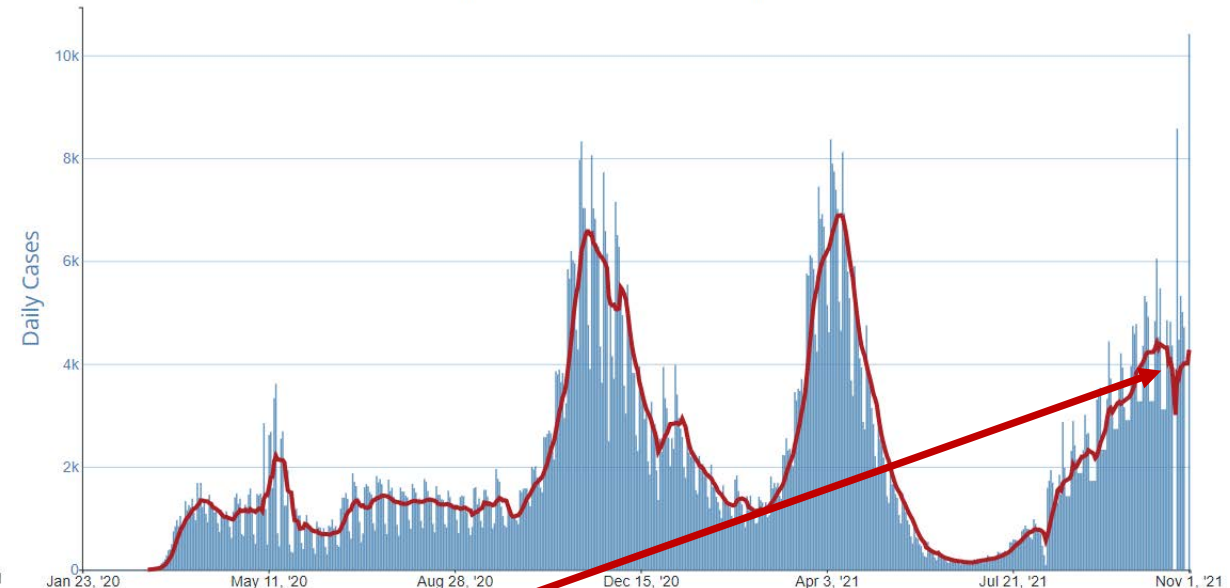
USA

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

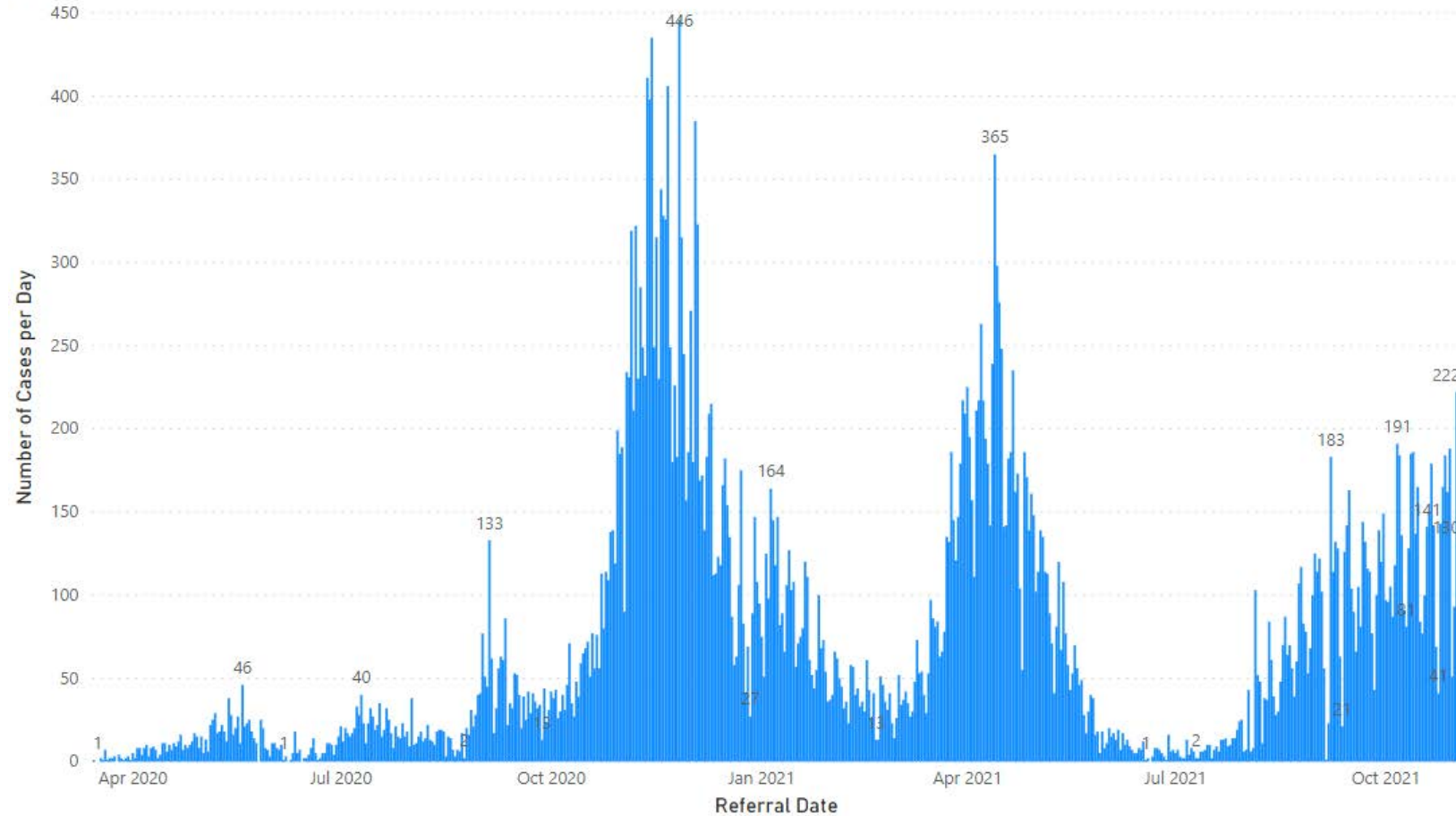


The US has plateaued while Michigan continues trending up.

Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 – November 2, 2021

Epidemiological Curve



Total Number of Cases
42,422

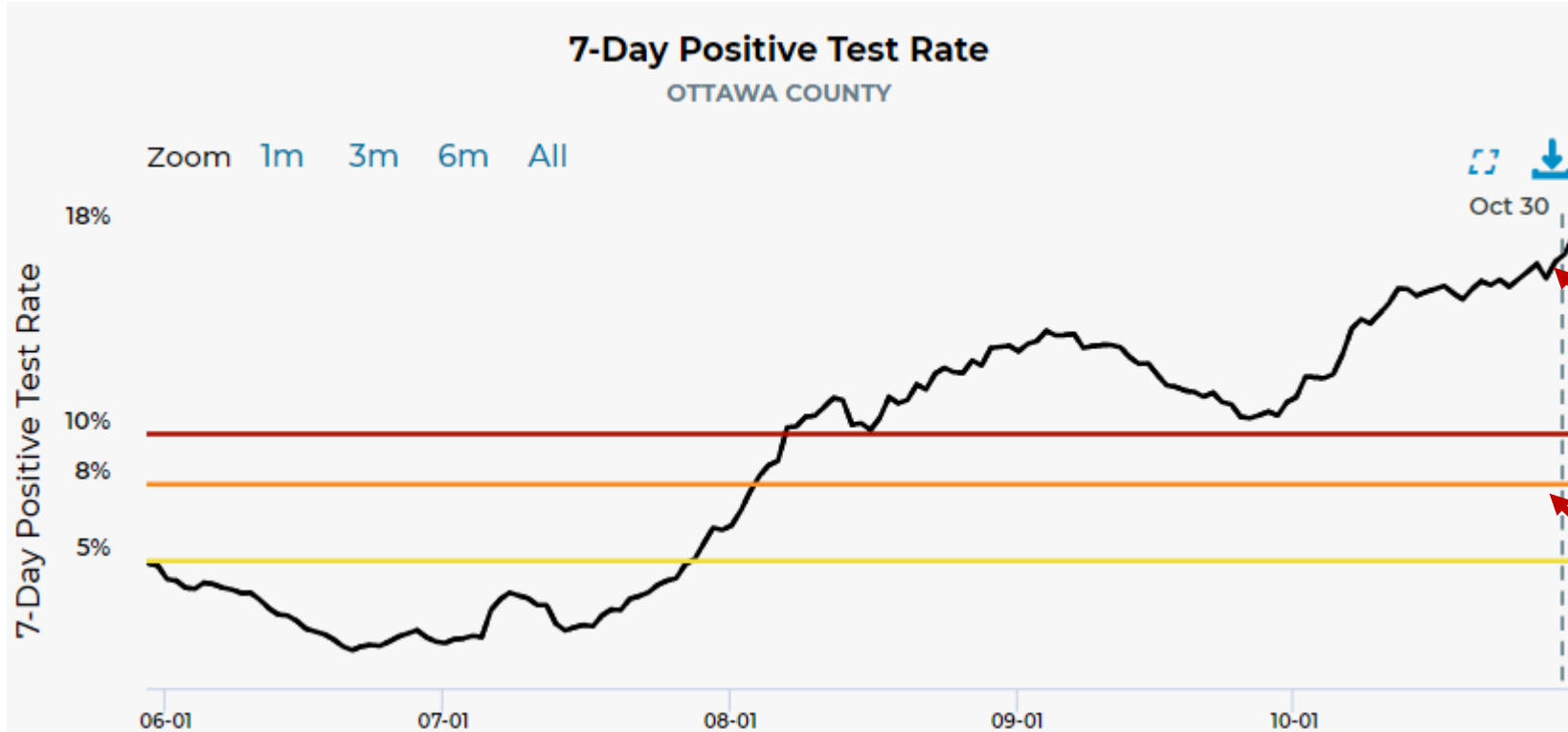
Currently the 7-day average is **147 cases per day**, higher than the 114 cases per day seen at a similar time last week. From week to week, cases increased 9% over the last 2 full weeks.

Note: As of November 2021, reports from local stores of a large grocery chain and a national pharmacy chain indicate that supplies of at-home COVID-19 tests remain in high demand. Use of at home tests likely reduces the number of positive tests reported to Public Health, resulting in an artificially deflated number of cases. Additionally, OCDPH has received reports of parents refusing COVID-19 testing for their children ill with respiratory symptoms, which may further deflate case data.

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

Test Positivity in Ottawa County

COVID-19 Cases by Day, Ottawa County, June 1, 2021 – October 30, 2021



Test positivity reached 17.3% on October 30, 2021.

The goal is to have less than 8% of tests coming back positive.

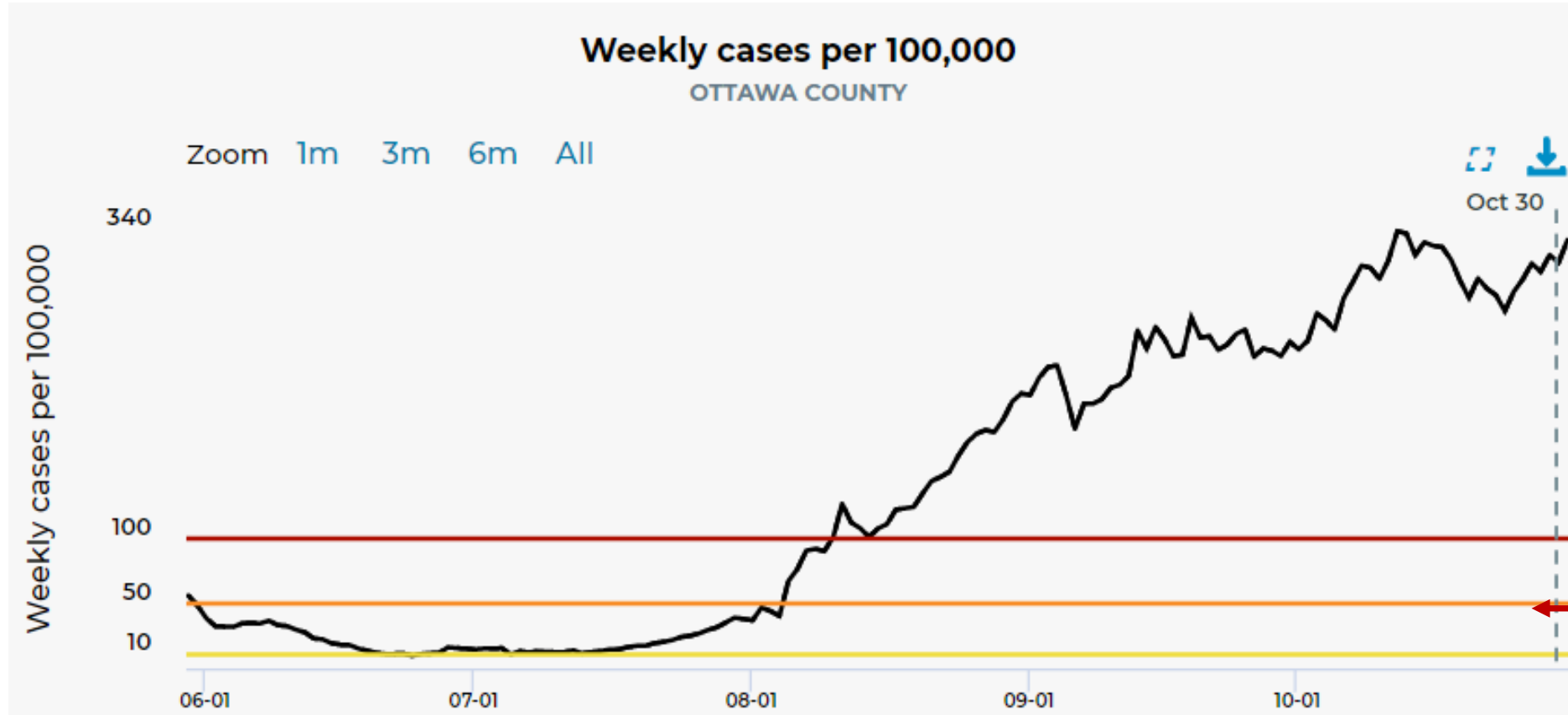


Note: Testing in Ottawa County has remained stable with 6000-8000 tests conducted each week over the last 2.5 months: [Testing Results | Ottawa County Covid-19 Case Summary Data \(arcgis.com\)](#)

Source: <https://www.mistartmap.info/cdc-indicators?area=county%3Aottawa>

Case Rates in Ottawa County – All Ages

COVID-19 Cases by Day, Ottawa County, June 1, 2021 – October 30, 2021



Case rates increased to 331 cases per week per 100,000 population.

The goal is to have less than 50 cases per week per 100,000 population. In Ottawa County, this would be about 21 cases per day or less.

Risk Thresholds (Cases per 100,000)



Low: <10



Moderate 10-49



Substantial 50-99

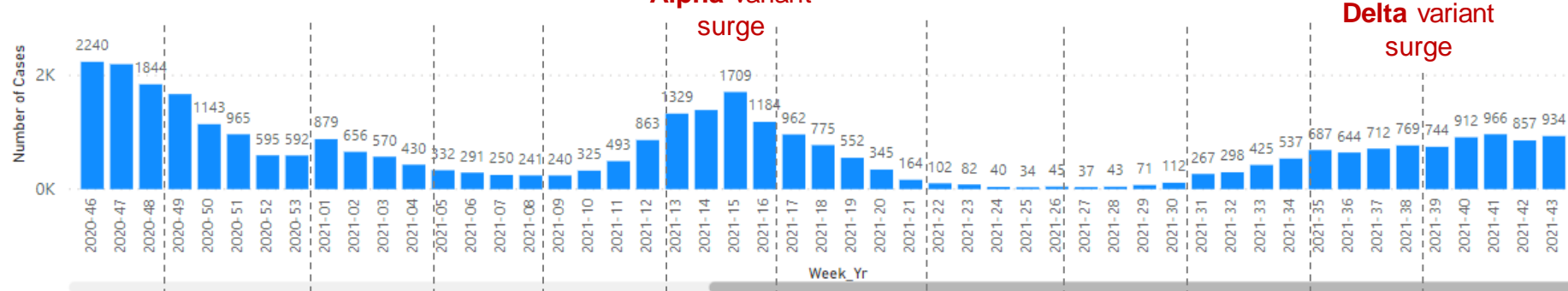


High >=100

Source: <https://www.mistartmap.info/cdc-indicators?area=county%3Aottawa>

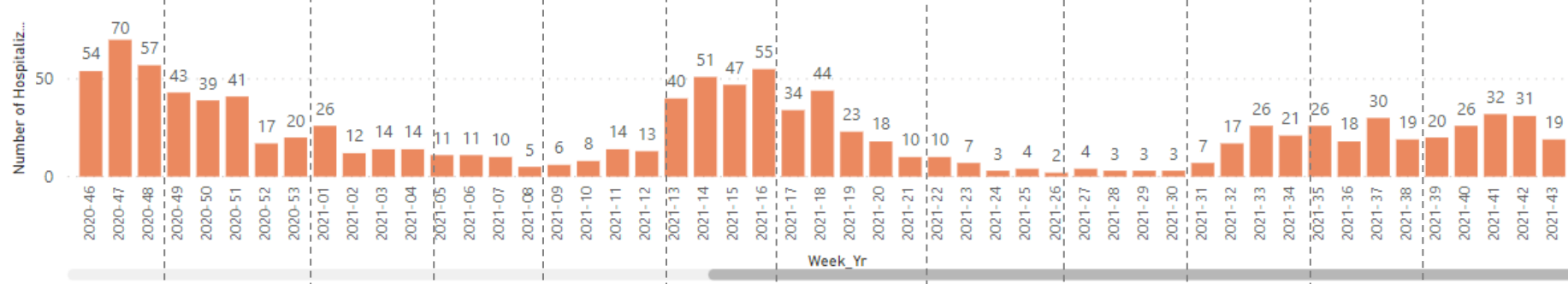
Ottawa County - Cases, Hospitalizations, & Deaths by Week, All Ages

New Cases By Week of Referral



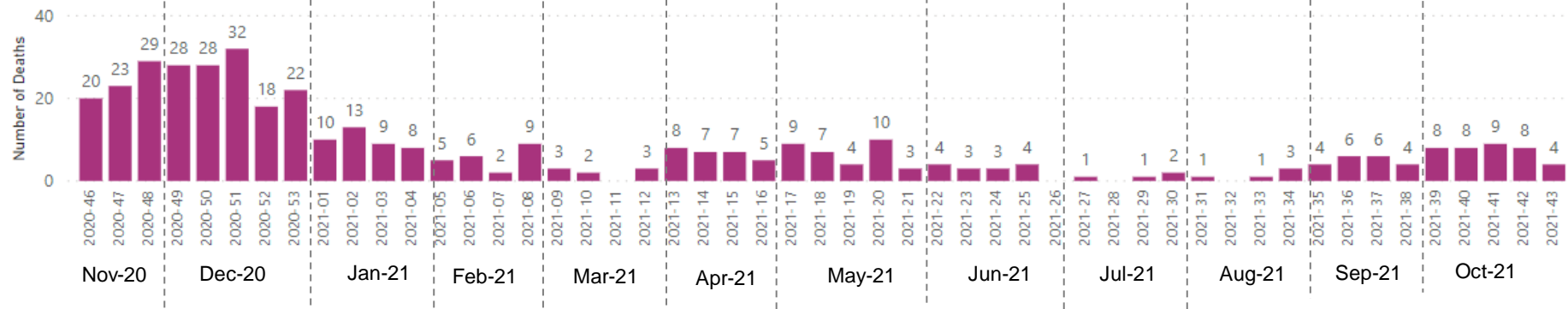
The weekly number of **cases** increased 9% last week.

New Hospitalizations by Week of Admission



The weekly number of **hospitalizations** has been increasing with an average of about **27 cases hospitalized** each week over the last month.

New Deaths by Week of Death



Weekly COVID-19 **deaths** are reaching levels experienced in the spring 2021 wave. Current weekly average of deaths over the last 4 weeks stands at about **7-8 deaths per week**.

Hospitalizations and deaths in recent weeks may increase as data is updated.

Hospitalizations are likely **underestimated** because:

- (i) Hospitalization status is obtained only by manual review, and
- (ii) Hospitalization may occur after public health interview.

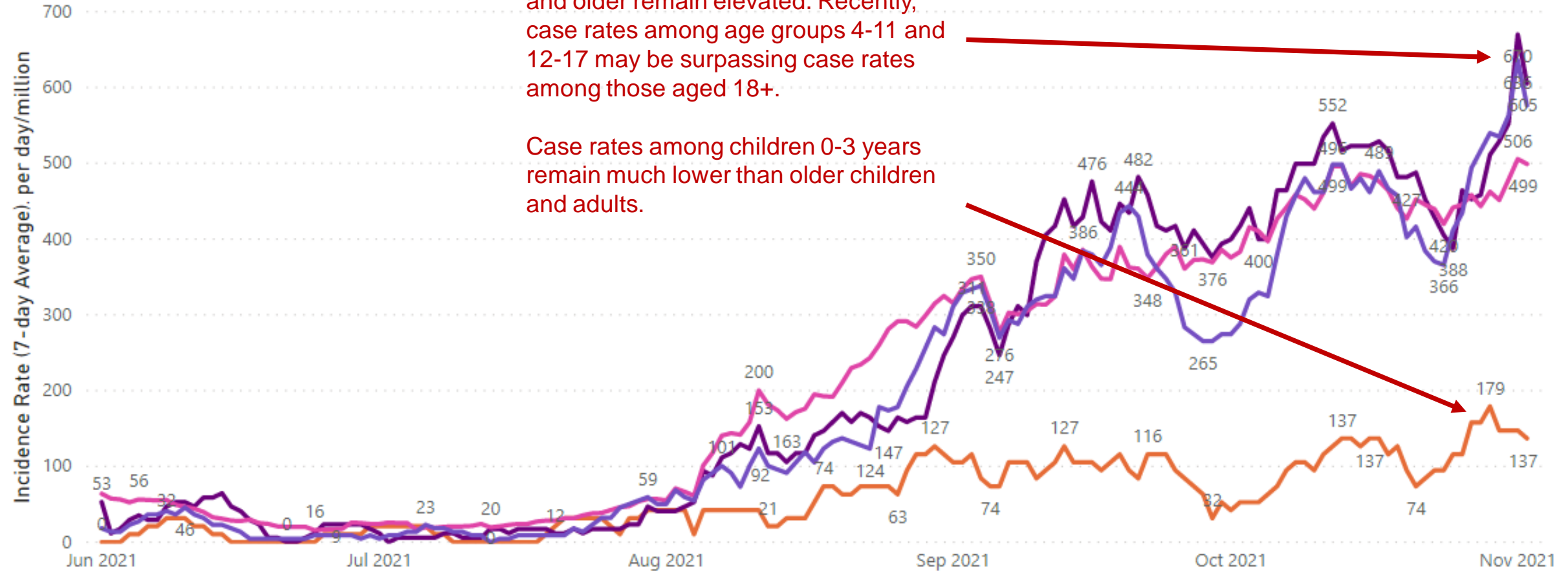
Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Ottawa County - Case Rate Trends – by Age

COVID-19 Case Rates by Age, includes School-Aged, June 2021 – November 2, 2021

Incidence Rate (7-day Average)

rategroup ● 0-3 ● 12-17 ● 18+ ● 4-11

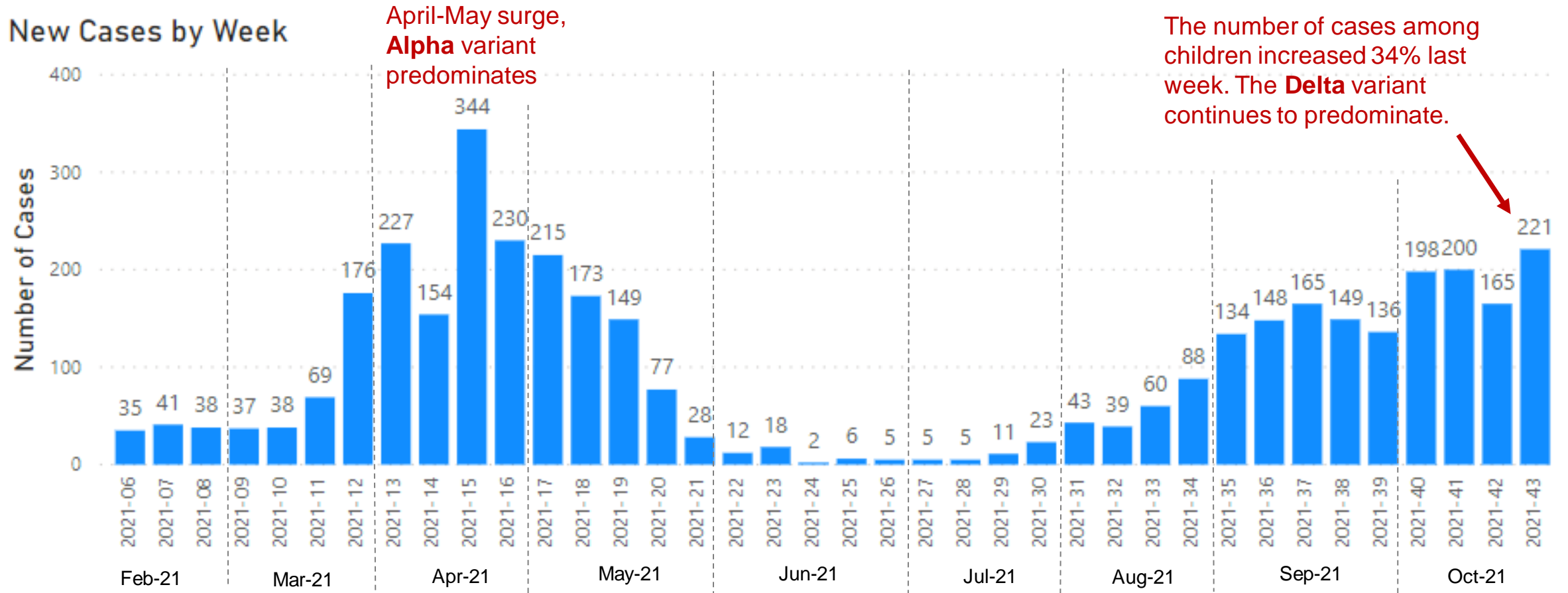


Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Data as of November 2, 2021

Ottawa County Weekly Case Counts – Children (0-17)

COVID-19 Cases Among Minors (0-17 years), by Week, January 2021 – October 30, 2021



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

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
3-Jul-21	40		5		45	
10-Jul-21	32	-20%	5	0%	37	-18%
17-Jul-21	38	19%	5	0%	43	16%
24-Jul-21	60	58%	11	120%	71	65%
31-Jul-21	89	48%	23	109%	112	58%
7-Aug-21	224	152%	43	87%	267	138%
14-Aug-21	259	16%	39	-9%	298	12%
21-Aug-21	365	41%	60	54%	425	43%
28-Aug-21	449	23%	88	47%	537	26%
4-Sep-21	553	23%	134	52%	687	28%
11-Sep-21	496	-10%	148	10%	644	-6%
18-Sep-21	547	10%	165	11%	712	11%
25-Sep-21	620	13%	149	-10%	769	8%
2-Oct-21	608	-2%	136	-9%	744	-3%
9-Oct-21	714	17%	198	46%	912	23%
16-Oct-21	765	7%	200	1%	966	6%
23-Oct-21	692	-10%	165	-18%	857	-11%
30-Oct-21	713	3%	221	34%	934	9%

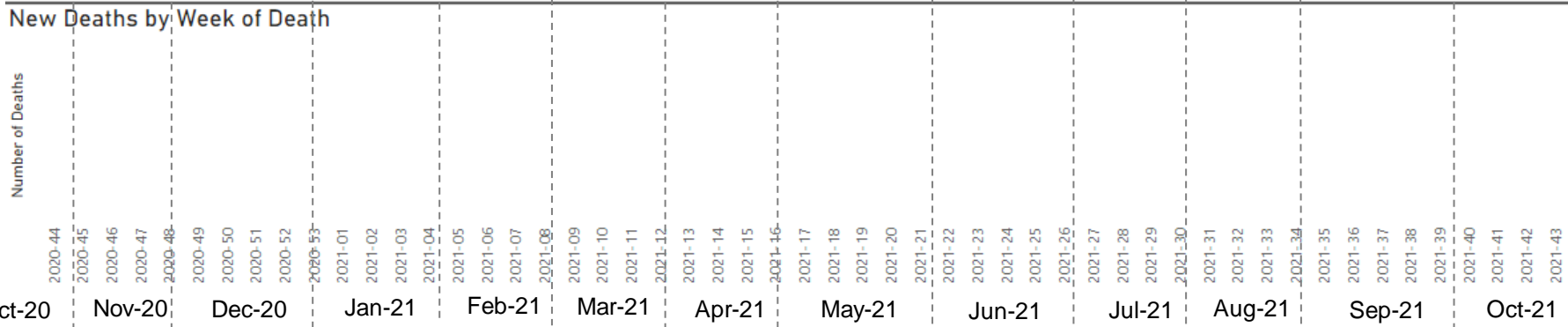
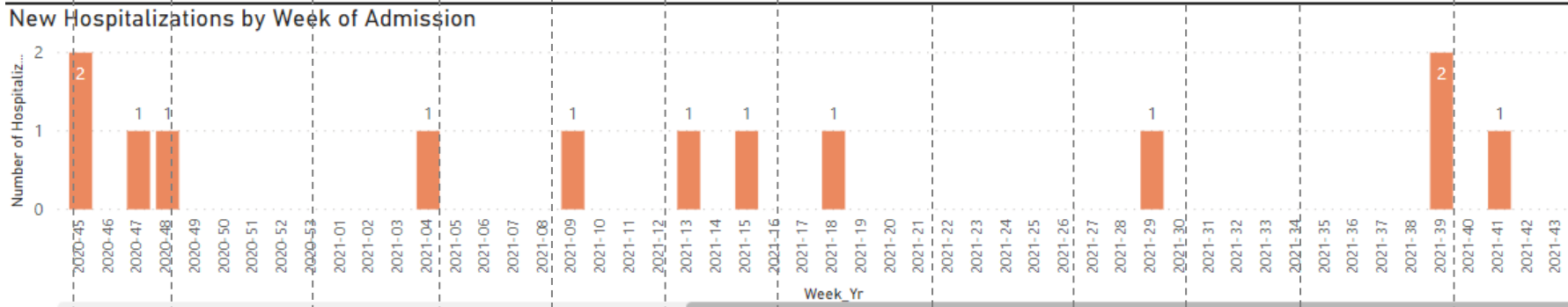
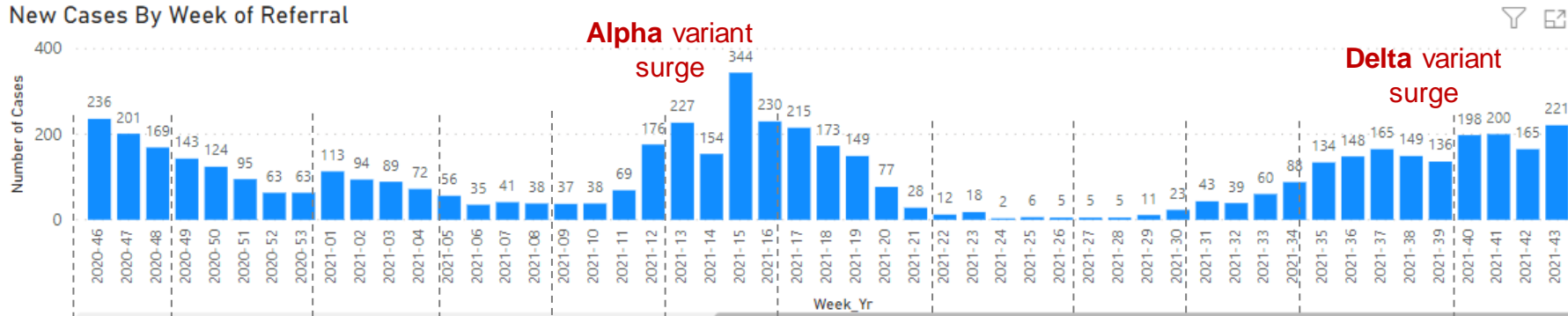
Adults

Children

Weekly case counts among children increased 34% last week, and cases in adults increased 3%.

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

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



The weekly number of cases among children increased 34% in the last 2 full weeks.

Hospitalizations are likely **underestimated** because:

- (i) Hospitalization status is obtained only by manual review, and
- (ii) Hospitalization may occur after public health interview.

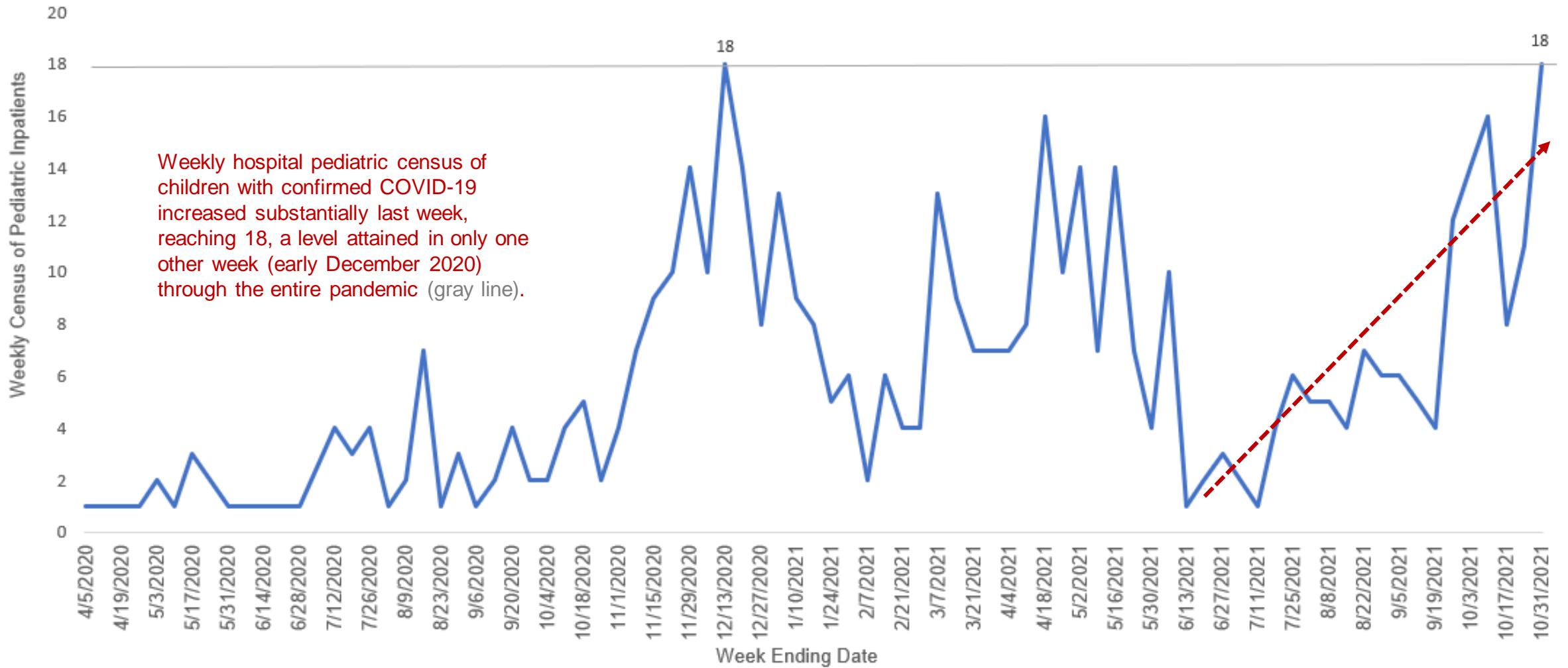
Through the 2020-2021 school year nearly all school-aged children were in environments with:

- universal masking
- cohorting
- online learning
- social distancing
- mandatory quarantine for all close contacts
- testing (for high school athletes)

These mitigation strategies likely reduced case counts and hospitalizations among children.

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

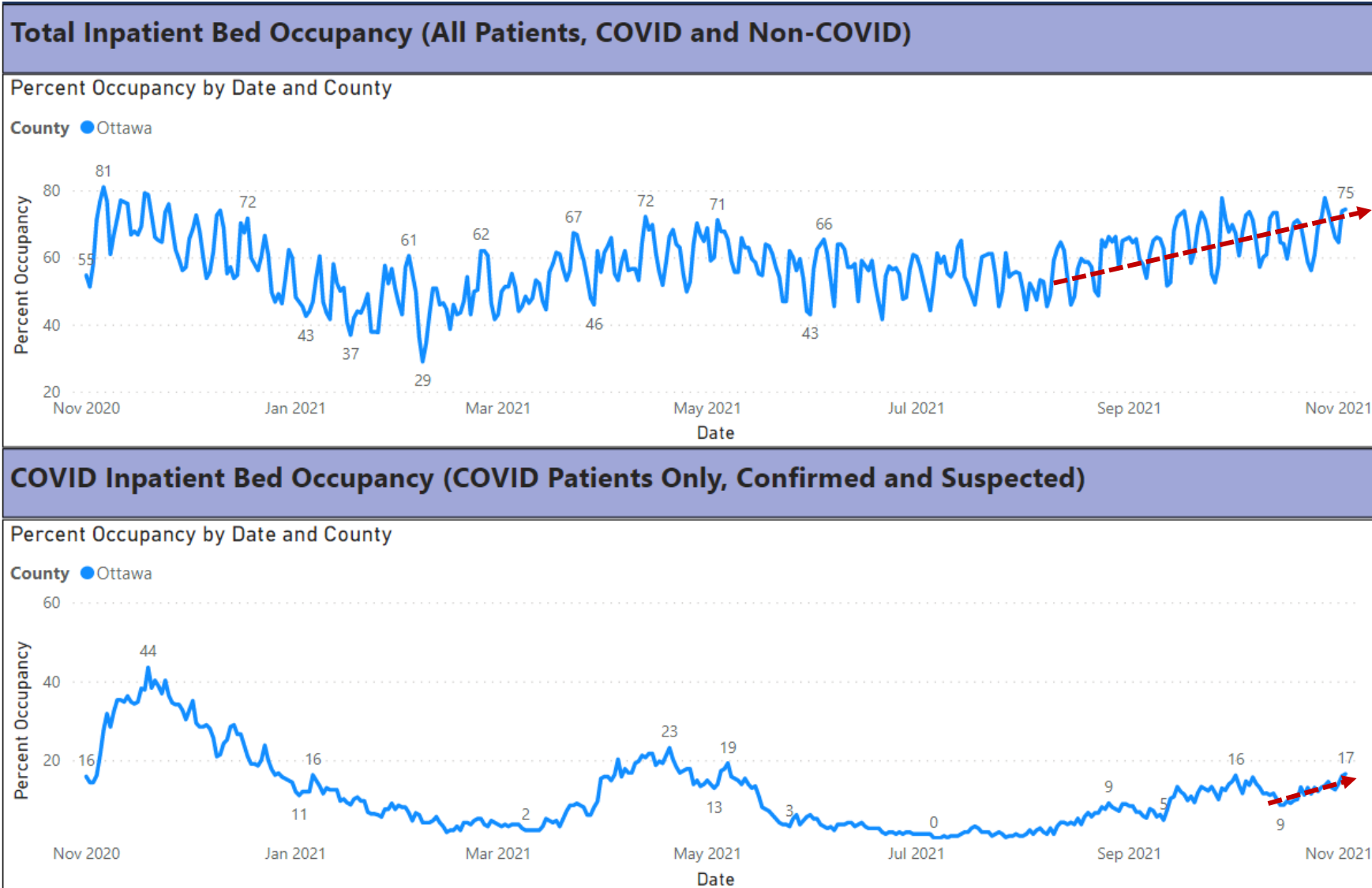
Weekly Hospital Pediatric Census – A Regional Healthcare System



Note: Data above includes persons younger than 18 years of age with confirmed COVID-19 hospitalized at a large regional healthcare system. Patients may be listed in more than one week. Data may change as information is updated.

Data through October 31, 2021

Ottawa County Hospital Capacity – All Beds



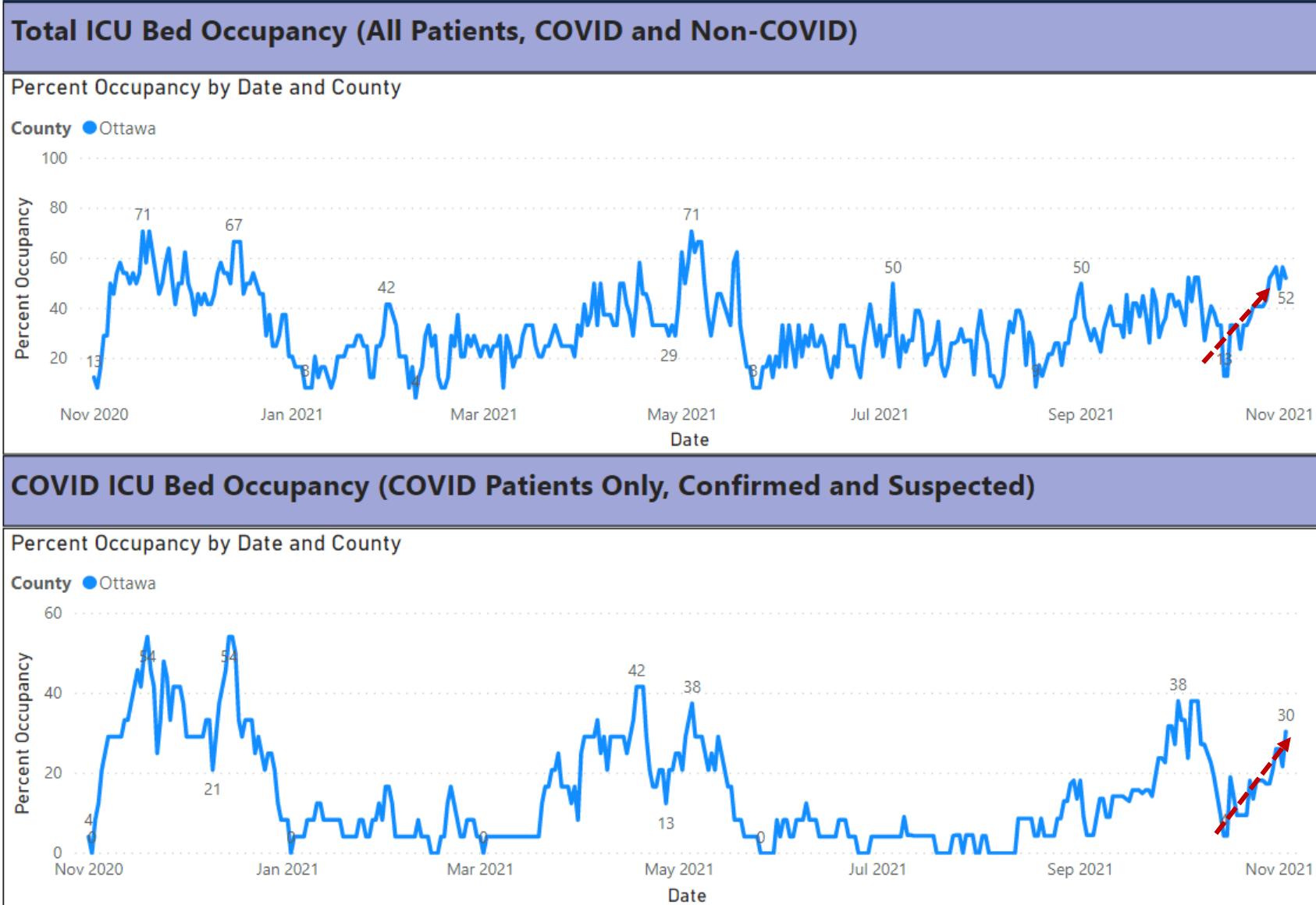
Total hospital bed occupancy is **increasing**, as is the proportion of beds occupied by COVID-19 patients.

Currently **17%** of all inpatient beds are occupied by COVID-19 patients.

Source: EMResources

Data through November 3, 2021

Ottawa County Hospital Capacity – ICU Beds



Overall ICU bed occupancy is **increasing**.

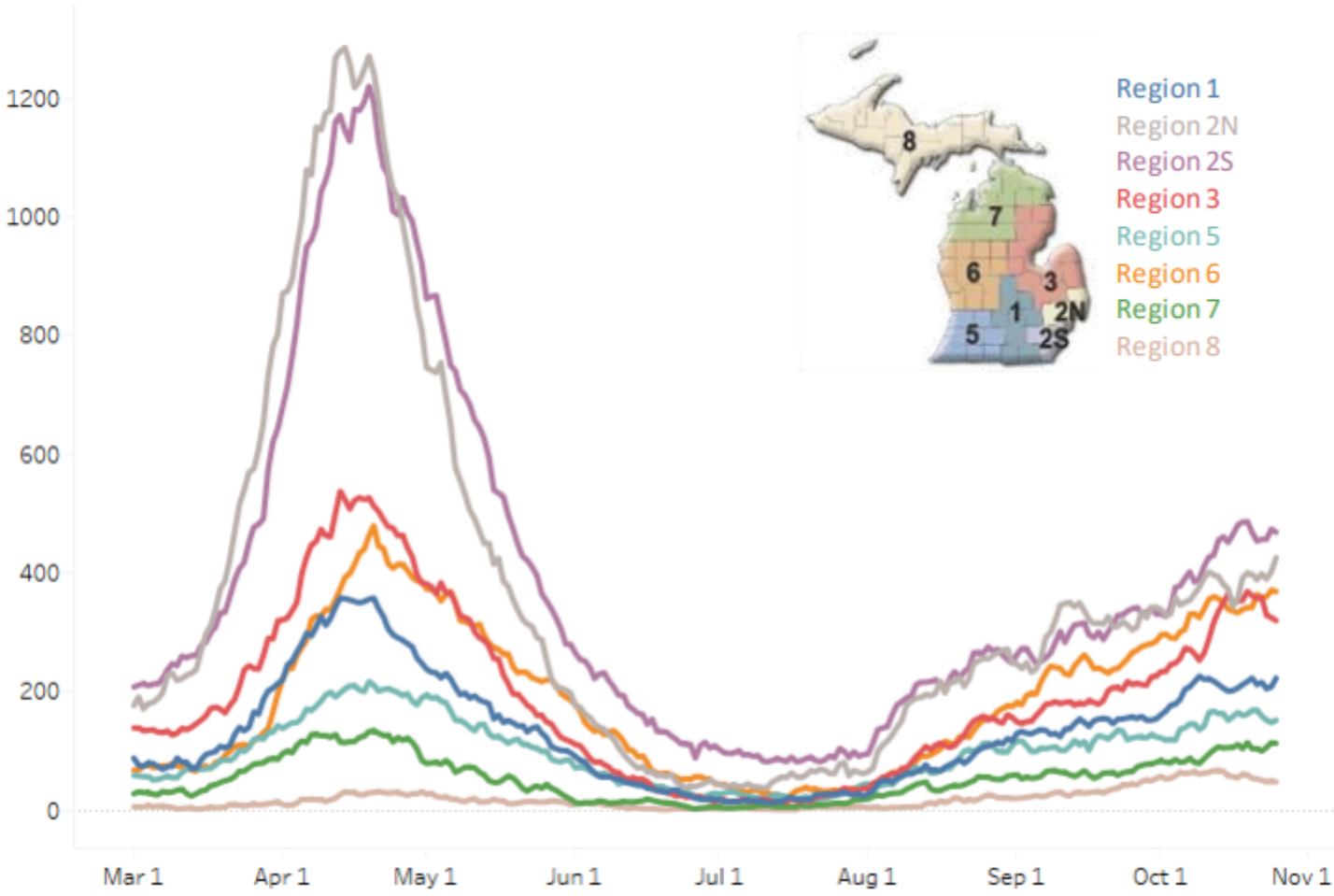
The proportion of ICU beds occupied by COVID-19 patients is **increasing**. Currently, **30%** of ICU beds are occupied by COVID-19 patients.

Source: EMResources

Data through November 3, 2021

Statewide Hospitalization Trends: Regional COVID+ Census

Hospitalization Trends 3/1/2021 – 10/25/2021
Confirmed Positive by Region



Hospitalizations for COVID+ patients have increased in some regions (1, 2N, 6, 7) while decreasing in other regions (2S, 3, 5,8)

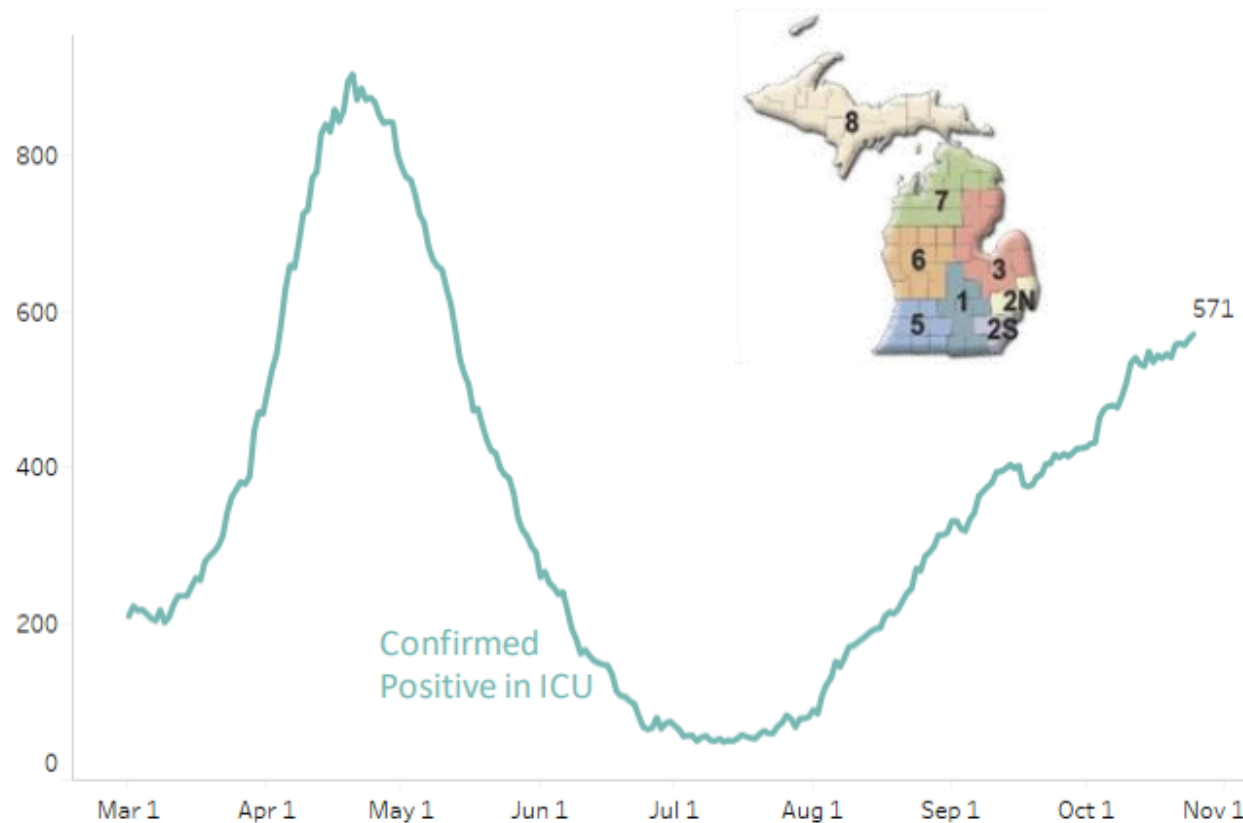
Regions 1, 2S, 3, 6 and 7 have greater than 200/M population hospitalized.

Region	COVID+ Hospitalizations (% Δ from last week)	COVID+ Hospitalizations / MM
Region 1	222 (5%)	205/M
Region 2N	425 (9%)	192/M
Region 2S	468 (-4%)	210/M
Region 3	319 (-10%)	281/M
Region 5	151 (-6%)	158/M
Region 6	368 (9%)	251/M
Region 7	112 (9%)	224/M
Region 8	47 (-22%)	151/M

Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20211026_Data_and_modeling_update_vFINAL_739491_7.pdf

Statewide Hospitalization Trends: ICU COVID+ Census

Hospitalization Trends 3/1/2021 – 10/25/2021
Confirmed Positive in ICUs



Overall, the census of COVID+ patients in ICUs has increased 6% from last week. ICU census has decreased in Regions 7 and 8.

Regions 1, 2S, and 3 have overall adult ICU occupancy greater than or equal to 85%. Regions 1, 6, 7 have >30% of ICU beds occupied with COVID+ patients.

Region	Adult COVID+ in ICU (% Δ from last week)	Adult ICU Occupancy	% of Adult ICU beds COVID+
Region 1	64 (19%)	87%	33%
Region 2N	95 (0%)	76%	16%
Region 2S	137 (11%)	86%	19%
Region 3	91 (11%)	92%	27%
Region 5	37 (3%)	77%	20%
Region 6	87 (7%)	84%	38%
Region 7	44 (-17%)	82%	31%
Region 8	16 (-6%)	60%	25%

Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20211026_Data_and_modeling_update_vFINAL_739491_7.pdf

Pediatric Hospitalization Rates – USA, Georgia, Michigan

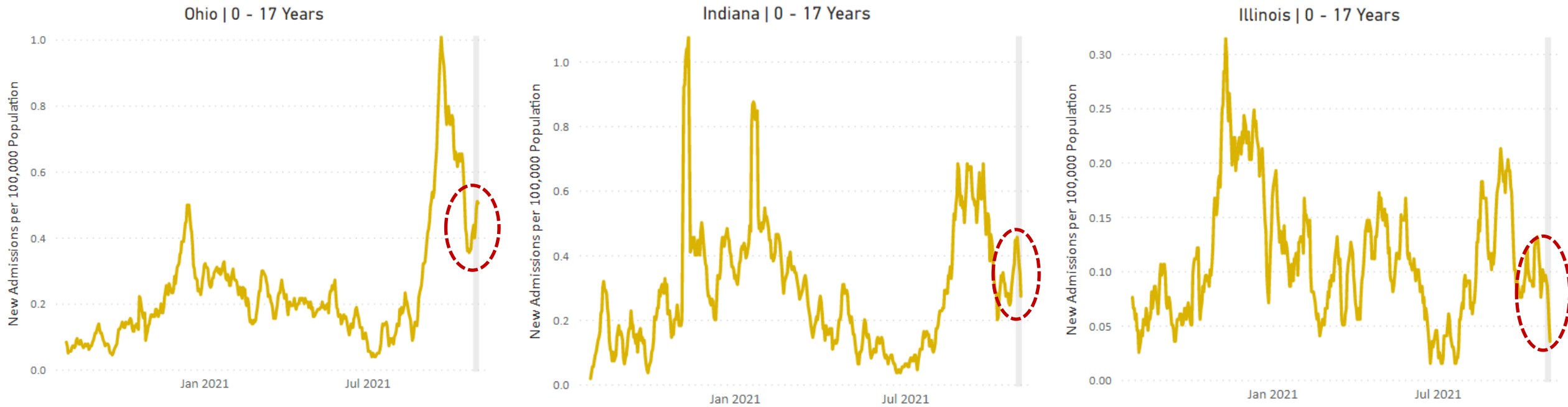


Pediatric hospitalization rates across the United States and most southern states (such as Georgia) have decreased substantially. Michigan pediatric hospitalization rates continue to increase.

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

Accessed November 2, 2021

Pediatric Hospitalization Rates – Select Midwest States

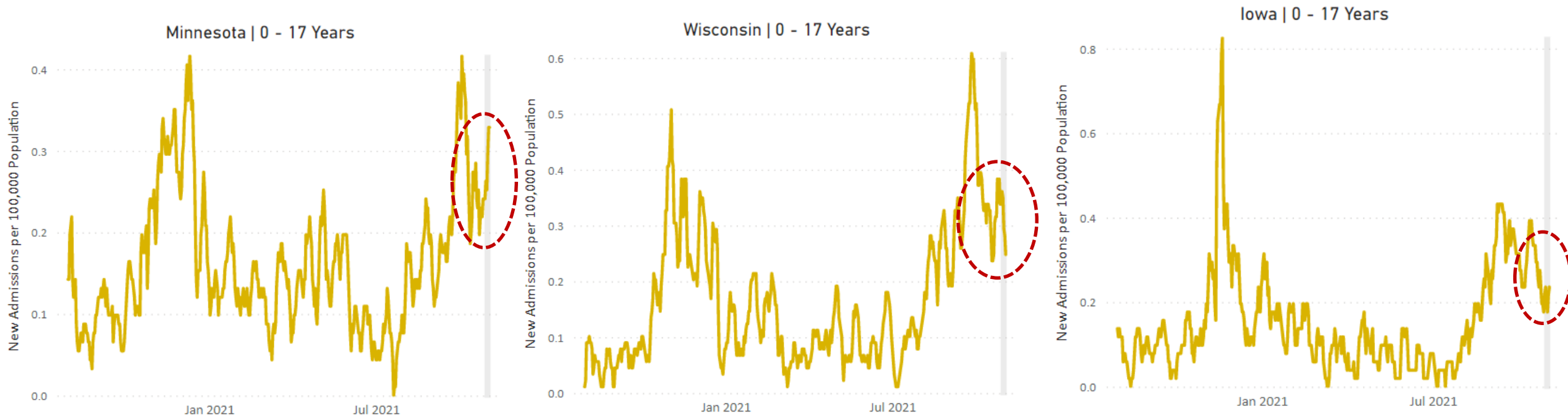


Pediatric hospitalization rates in some states across the Midwest are elevated. Ohio remains higher than usual and is showing a recent rebound. Indiana and Illinois pediatric hospitalization rates have reversed from recent surges, but Indiana continues to track sideways.

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

Accessed November 3, 2021

Pediatric Hospitalization Rates – Select Midwest States

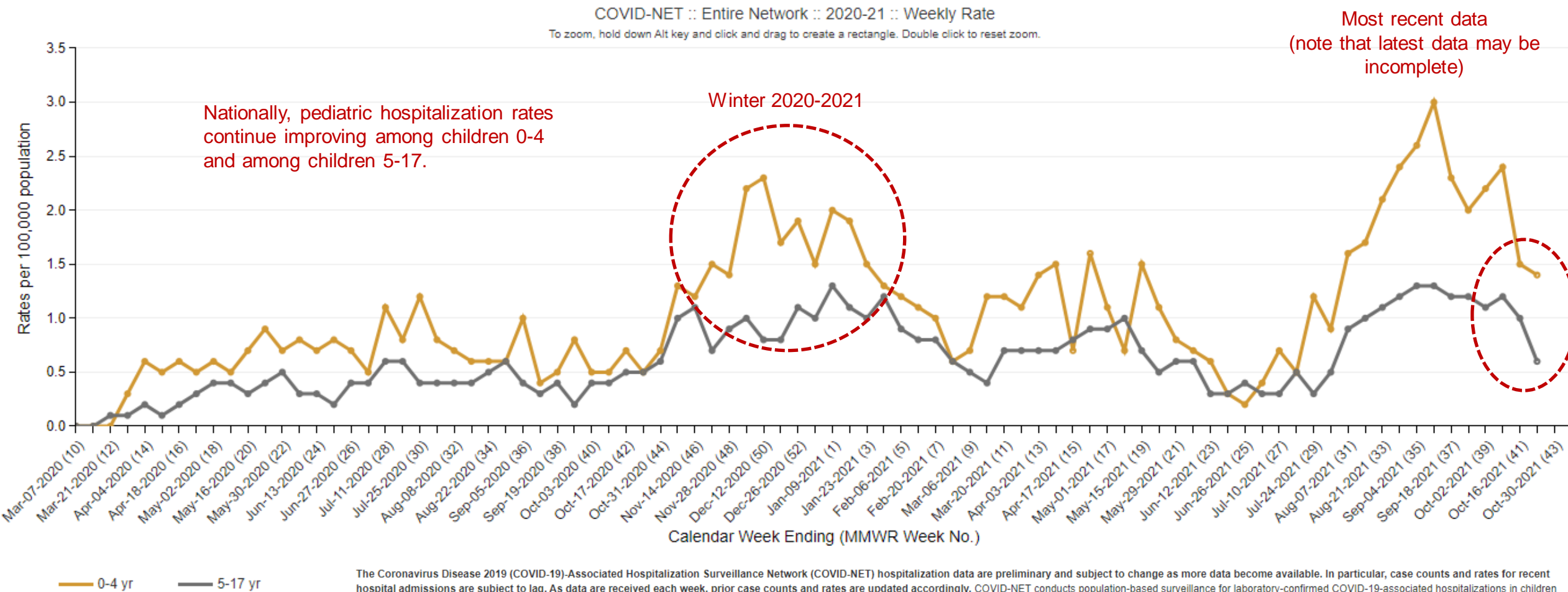


Pediatric hospitalization rates in Minnesota, and Wisconsin remain elevated, with modest improvement in Iowa.

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

Accessed November 3, 2021

Pediatric Hospitalization Rates by Age Group – USA

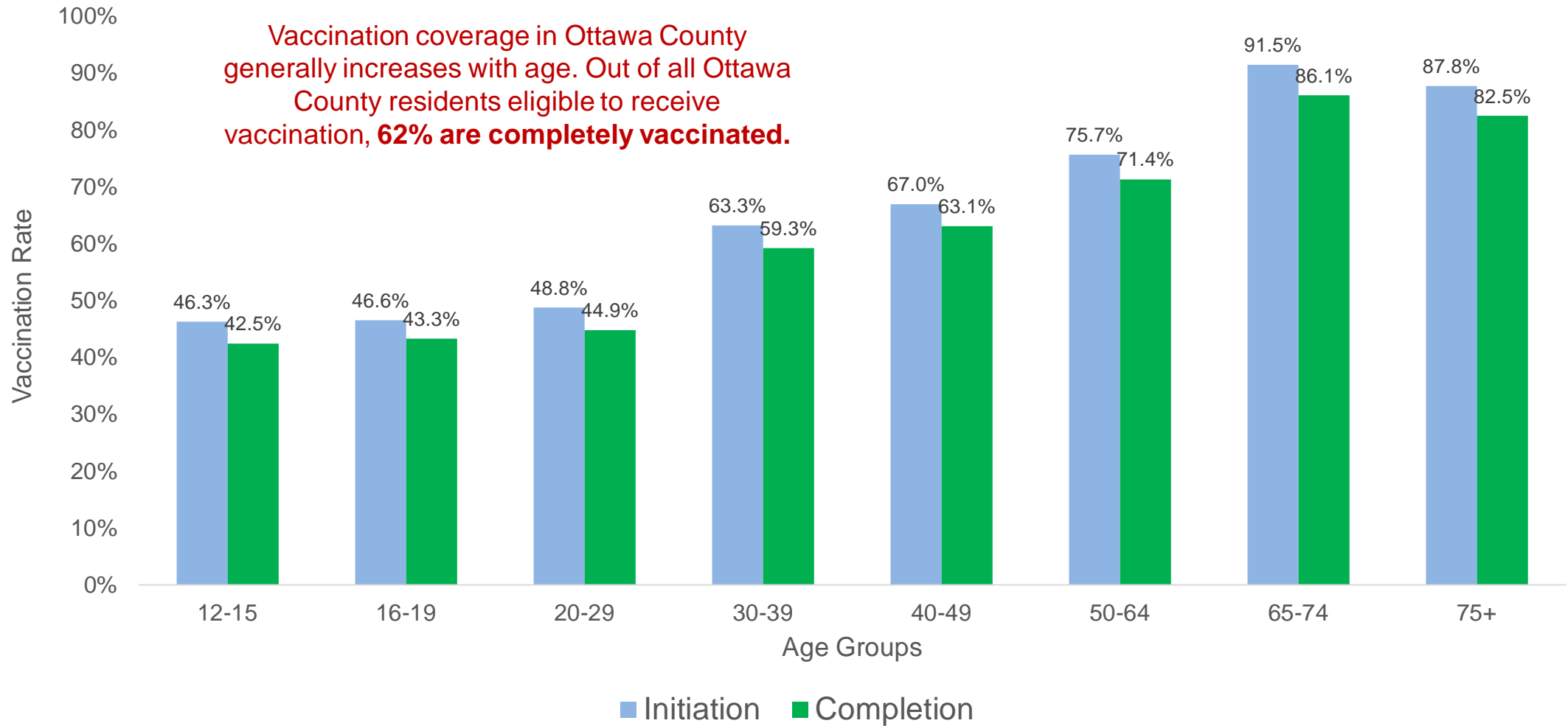


The Coronavirus Disease 2019 (COVID-19)-Associated Hospitalization Surveillance Network (COVID-NET) hospitalization data are preliminary and subject to change as more data become available. In particular, case counts and rates for recent hospital admissions are subject to lag. As data are received each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

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

Accessed November 3, 2021

Vaccination Coverage by Age



Note: The previously posted vaccination rate goal of 70% was removed from this illustration. As more transmissible COVID-19 variants emerge, vaccination rates higher than 70% are likely needed to slow COVID-19 transmission in the community.

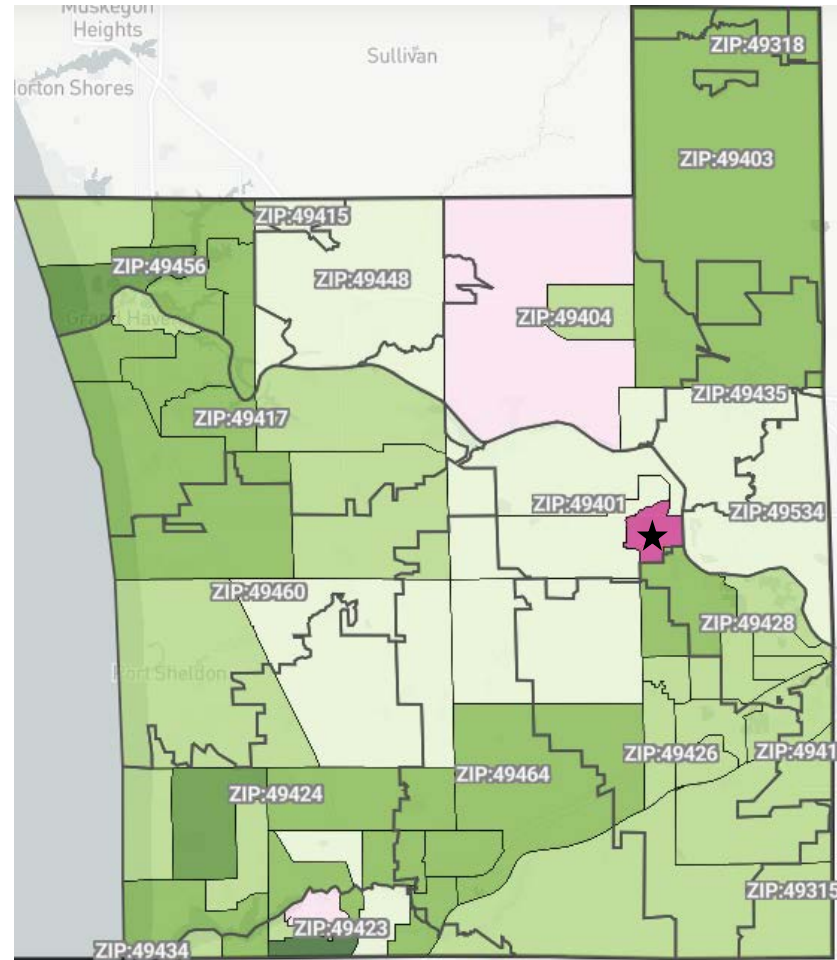
Source: https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

Data through October 30, 2021

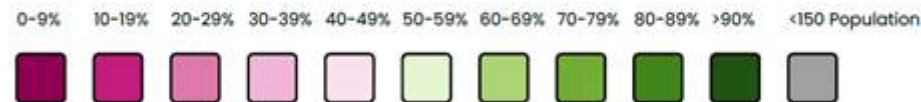
Vaccination Coverage by Place of Residence

Fully vaccinated: % Ages 16+ years

Vaccination rates vary across Ottawa County, but most areas have at least 50% of the population aged 16+ completely vaccinated.



Color coded by: Fully Vaccinated (% Ages 16+)



★ The vaccination rate for this census tract is likely underestimated because census estimates in this tract may be inflated by seasonal students at a large university.

Source: MI-Lighthouse Internal Dashboard

Cumulative Cases by Vaccination Status, Ottawa County, January 15, 2021 – October 30, 2021

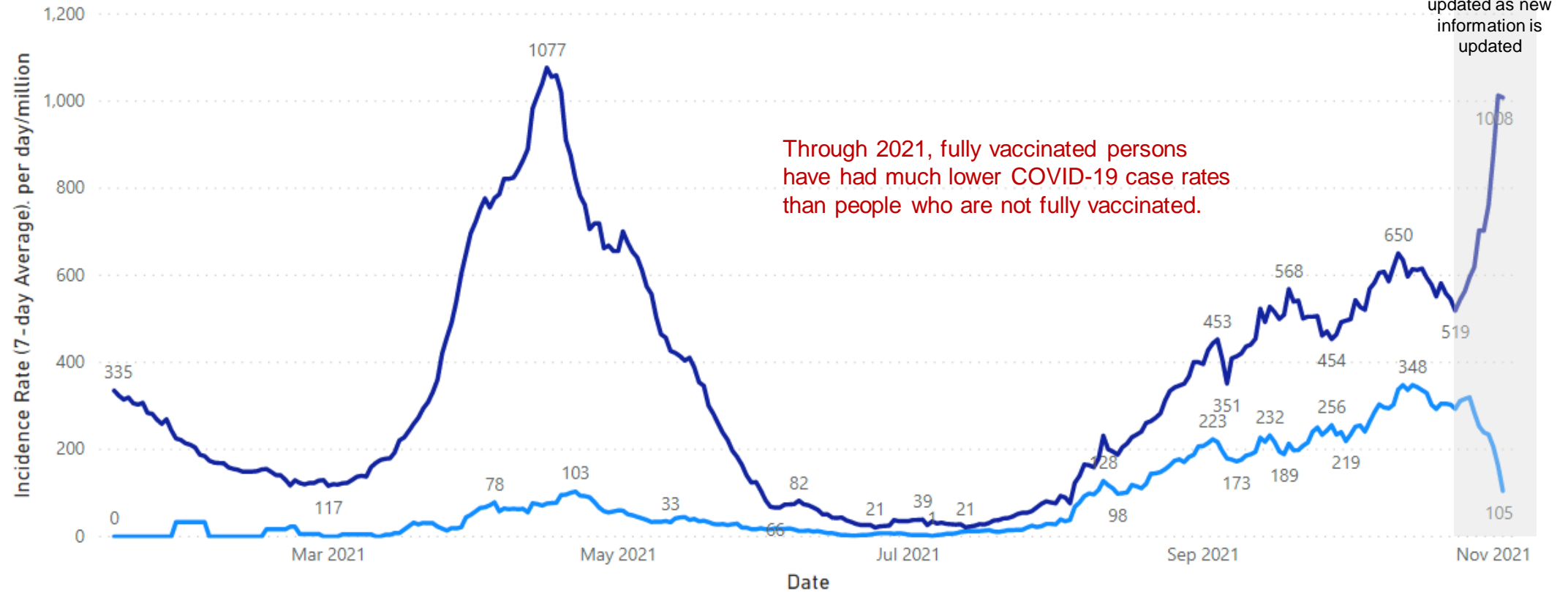
Fully Vaccinated People (152,195)		
Cases	Hospitalizations	Deaths
Percent of Cases in People Not Fully Vaccinated (18,698 / 21,936) 85.2%	Percent of Hospitalizations in People Not Fully Vaccinated (634 / 774) 81.9%	Percent of Deaths in People Not Fully Vaccinated (129 / 167) 77.2%
Total Cases Not Fully Vaccinated 18,698	Total Hospitalized Not Fully Vaccinated 634	Total Deaths Not Fully Vaccinated 129
Total Breakthrough Cases 3,238	Total Breakthrough Hospitalizations 140	Total Breakthrough Deaths 38
Percent of Fully Vaccinated People who Developed COVID-19 (3,238 / 152,195) 2.128%	Percent of Fully Vaccinated People who were Hospitalized for COVID-19 (129 / 152,195) 0.092%	Percent of Fully Vaccinated People who Died of COVID-19 (38 / 152,195) 0.025%
Percent of Cases who were Fully Vaccinated (3,238 / 21,936) 14.8%	Percent of Hospitalizations who were Fully Vaccinated (140 / 774) 18.1%	Percent of Deaths who were Fully Vaccinated (38 / 167) 22.8%
Total Cases 21,936	Total Hospitalizations 774	Total Deaths 167

Sources:
Michigan Department of Health and Human Services, Michigan Disease Surveillance System
MDHHS COVID-19 Dashboard: https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

Ottawa County COVID-19 Vaccination Breakthrough Case Trends

Incidence Rate (7-day Average)

rategroup ● Fully Vaccinated ● Not Fully Vaccinated



Data in shaded area may be updated as new information is updated

Through 2021, fully vaccinated persons have had much lower COVID-19 case rates than people who are not 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.

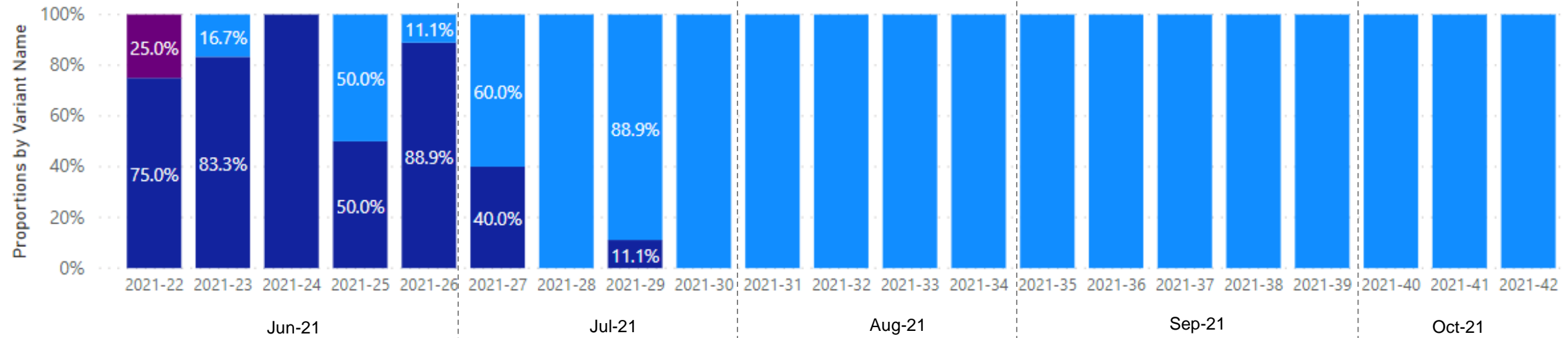
Sources:

Michigan Department of Health and Human Services, Michigan Disease Surveillance System
 MDHHS COVID-19 Dashboard: https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

Variants – Clinical Samples from Ottawa County Residents

Variant Proportions by Week

Variant Name ● Alpha ● Delta ● Gamma



In June of 2021, most clinical samples* submitted for variant testing came back as the **Alpha** variant. By the end of July 2021, all clinical samples tested were returned as the **Delta** variant. Since late July 2021 all clinical samples submitted for variant testing came back positive for the Delta variant, indicating that **Delta** remains the predominate variant in Ottawa County. Currently, there is little local evidence of any newly emerging variant.

* Swabs from Ottawa County residents that tested positive for COVID-19 by PCR

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

Variants – Wastewater Sampling – Holland/Zeeland

Y = Detected
N = Not Detected

Sample Date	Site	Wuhan (parental)	Alpha	Beta	Gamma	Delta	Epsilon
9/2/2021	North Holland	Y	N	N	N	N	N
9/3/2021	Zeeland	N	N	N	N	Y	N
9/6/2021	North Holland	Y	N	N	N	Y	N
9/7/2021	Zeeland	N	N	N	N	N	N
9/9/2021	North Holland	N	N	N	N	Y	N
9/10/2021	Zeeland	N	N	N	N	Y	N
9/14/2021	Zeeland	N	N	N	N	Y	N
9/16/2021	North Holland	N	N	N	N	N	N
9/21/2021	Zeeland	N	N	N	N	Y	N
9/22/2021	North Holland	N	N	N	N	N	N
9/23/2021	Zeeland	N	N	N	N	Y	N
9/26/2021	North Holland	Y	N	N	N	Y	N
9/29/2021	North Holland	N	N	N	N	Y	N
9/30/2021	Zeeland	N	N	N	N	Y	N
10/3/2021	North Holland	Y	N	N	N	Y	N
10/4/2021	Zeeland	N	N	N	N	Y	N
10/6/2021	North Holland	N	N	N	N	N	N
10/7/2021	Zeeland	N	N	N	N	Y	N
10/10/2021	North Holland	N	N	N	N	Y	N
10/17/2021	North Holland	Y	N	N	N	Y	N
10/11/2021	Zeeland	N	N	N	N	Y	N
10/18/2021	Zeeland	N	N	N	N	Y	N
10/20/2021	North Holland	Y	N	N	N	N	N
10/24/2021	North Holland	N	N	N	N	Y	N
10/21/2021	Zeeland	N	N	N	N	Y	N
10/25/2021	Zeeland	N	N	N	N	Y	N

The **Delta** variant was consistently detected in Holland and Zeeland wastewater samples through all of September and most of October 2021, with no other variants detected in that same time frame. This data indicate that Delta remains the dominant variant in Ottawa County; with little evidence of Delta being supplanted by a competing variant.

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

CDC Community Risk Transmission Levels & Metrics

Indicator - If the two indicators suggest different transmission levels, the higher level is selected	Low Transmission Blue	Moderate Transmission Yellow	Substantial Transmission Orange	High Transmission Red
Total new cases per 100,000 persons in the past 7 days	0-9.99	10-49.99	50-99.99	≥ 100
Percentage of NAATs ¹ that are positive during the past 7 days	0-4.99%	5-7.99%	8-9.99%	≥ 10.0%

Ottawa's goal is to be in the Moderate category*

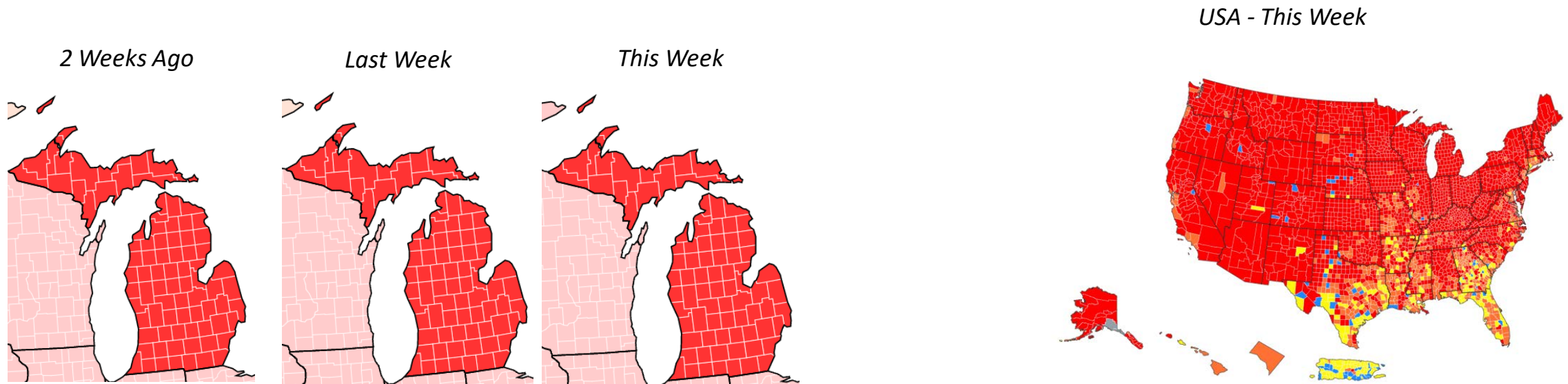
Ottawa is in the High category right now

*After further analysis of Ottawa County case rate data, positivity data, and CDC Community Transmission Levels, on October 8, 2021 the Ottawa County Department of Public Health (OCDPH) relaxed one of the criteria that may be used to rescind the current school mask order. The criterion that set a threshold of a CDC Community Transmission Level of Low for 7 consecutive days was changed to a threshold of Moderate for 14 consecutive days.

Source: <https://covid.cdc.gov/covid-data-tracker/#county-view>

CDC Community Transmission Risk Levels – Ottawa County

- Current Risk Level in Ottawa – **HIGH** (for last 11+ weeks)
- Current Data:
 - Positivity = 17.04%
 - Case Rate = 357.06 cases per week per 100,000

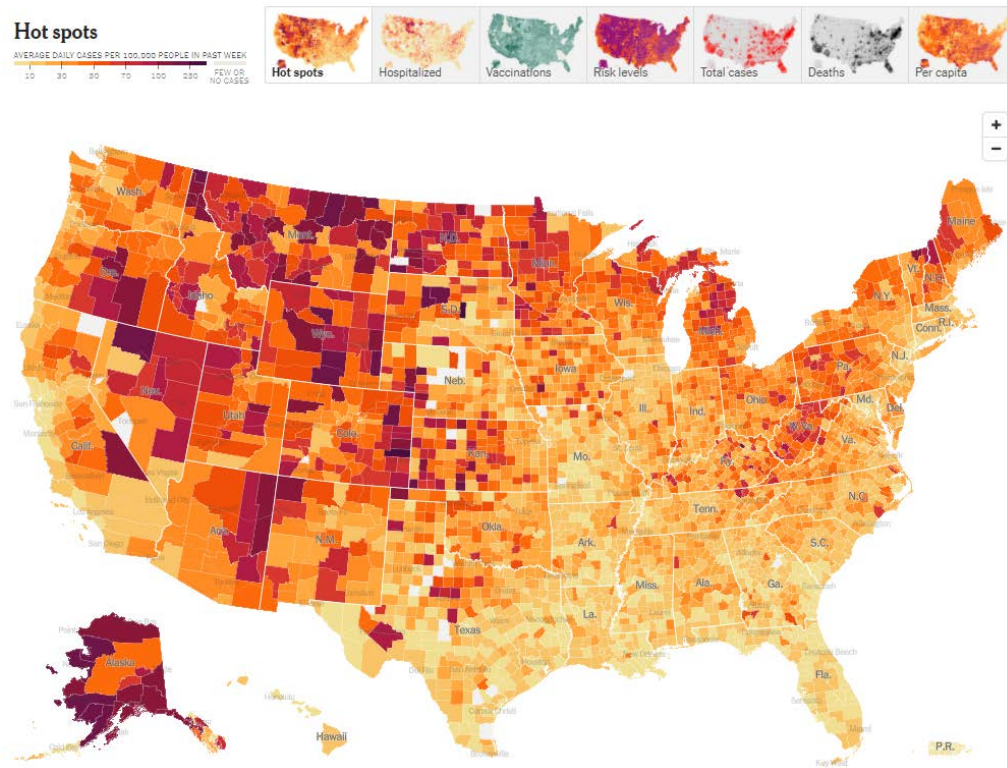


Data through October 30, 2021
for positivity and November 1,
2021 for case rates

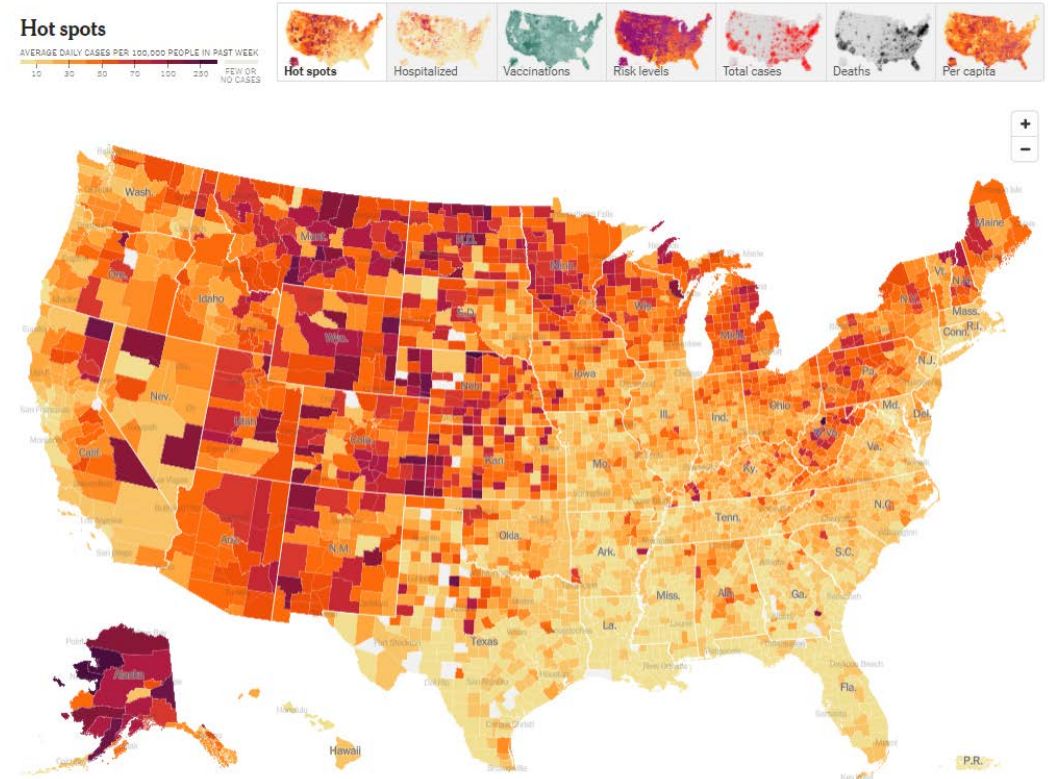
Source: <https://covid.cdc.gov/covid-data-tracker/#county-view>

COVID-19 Case Rates by County Across the US

Last Week



This Week



Case rates in the deep South have improved substantially and Appalachia remains in a downtrend. Some Western states, Alaska, and the upper Midwest continue experiencing elevated case rates.

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

Accessed November 3, 2021

USA & MI

Spread

Children

Hospitalizations

Vaccinations

Variants

Risk Levels

Other

Media

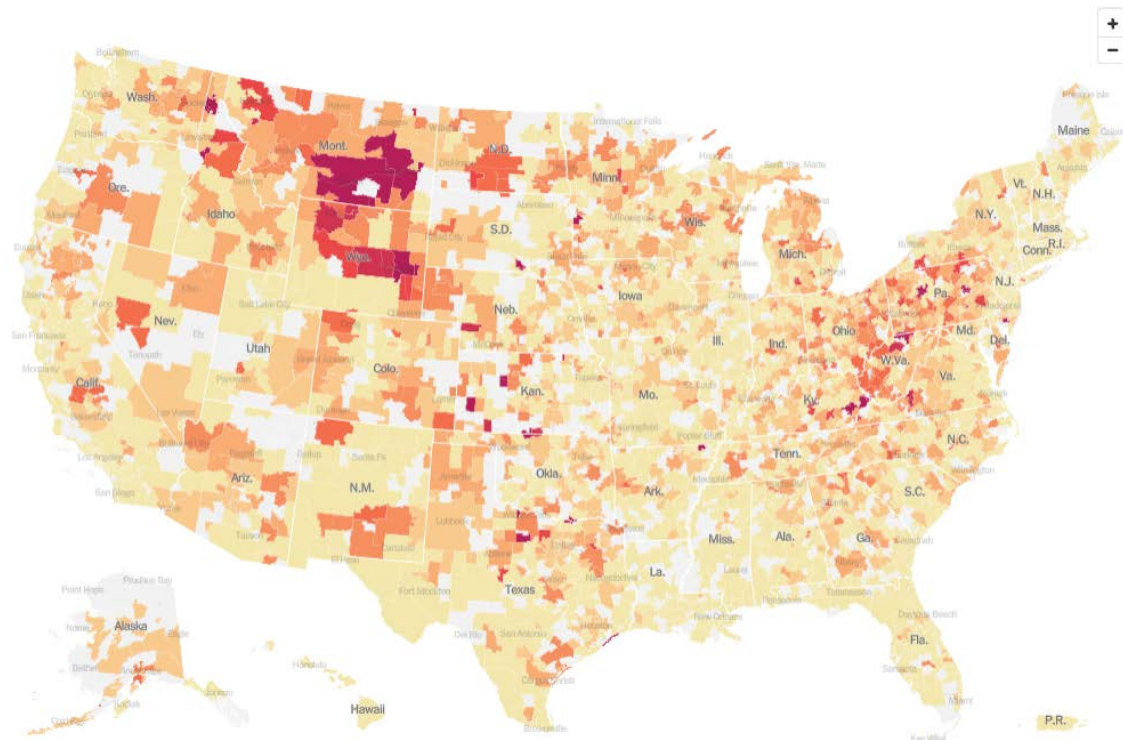
Science
Roundup

COVID-19 Hospitalization Rates by County Across the US

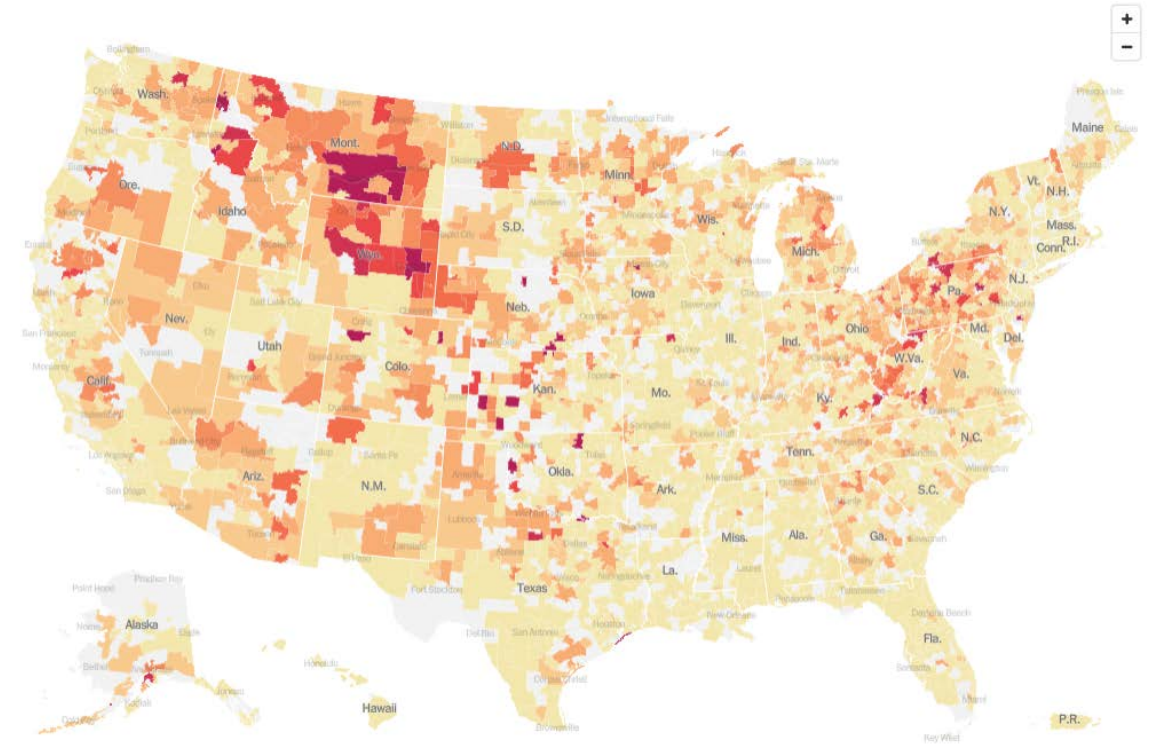
Last Week

This Week

Current hospitalizations



Current hospitalizations



Hospitalization rates continue to improve in the deep South and Appalachia, while some western states – particularly Montana and Wyoming – are experiencing elevated hospitalization rates.

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

Accessed November 3, 2021

USA & MI

Spread

Children

Hospitalizations

Vaccinations

Variants

Risk Levels

Other

Media

Science Roundup

States and Michigan Counties with School Masking Requirements

- **States/Districts (18):** California, Connecticut, Delaware, Hawaii, Illinois, Louisiana, Maryland, Massachusetts, New Mexico, New Jersey, New York, Nevada, Oregon, Pennsylvania, Rhode Island, Virginia, Washington, & Washington D.C.
- **Michigan Counties (15):**
 - **PreK/K-6:** Kalamazoo, Kent, Marquette, Ottawa
 - **K-12:** Antrim, Benzie, Charlevoix, Emmet, Genesee, Ingham, Leelanau, Oakland, Otsego, Washtenaw, and Wayne
- **Rescinded County Mask Mandates (6):**
 - Allegan, Barry, Berrien, Eaton, Iron, Dickinson

Notes: List may not be comprehensive

COVID-19 News Headlines

LOCAL NEWS

'No clear outcome': Ottawa County commissioners pass resolution opposing any federal vaccine mandate

<https://www.wzzm13.com/article/news/local/no-clear-outcome-ottawa-county-commissioners-pass-resolution-opposing-any-federal-vaccine-mandate/69-f5d1125e-7502-482b-9dd1-65acd17be27c>

Vaccines for young children will end some Michigan school mask mandates

Updated: Oct. 29, 2021, 10:00 a.m. | Published: Oct. 29, 2021, 10:00 a.m.

<https://www.mlive.com/coronavirus/2021/10/vaccines-for-young-children-will-end-some-michigan-school-mask-mandates.html>

Public Interest

New COVID-19 outbreaks climbed 41% last week in Michigan

Updated: Nov. 02, 2021, 7:55 a.m. | Published: Nov. 02, 2021, 7:55 a.m.

<https://www.mlive.com/public-interest/2021/11/new-covid-19-outbreaks-climbed-41-last-week-in-michigan.html>

CDC Recommends Pediatric COVID-19 Vaccine for Children 5 to 11 Years

<https://www.cdc.gov/media/releases/2021/s1102-PediatricCOVID-19Vaccine.html>

USA & MI

Spread

Children

Hospitalizations

Vaccinations

Variants

Risk Levels

Other

Media

Science
Roundup

Science Roundup

Laboratory-Confirmed COVID-19 Among Adults Hospitalized with COVID-19-Like Illness with Infection-Induced or mRNA Vaccine-Induced SARS-CoV-2 Immunity — Nine States, January–September 2021

Early Release / October 29, 2021 / 70

<https://www.cdc.gov/mmwr/volumes/70/wr/mm7044e1.htm>

← A CDC study of hospitalized patients with COVID-like illness found that unvaccinated people with previous COVID-19 infection were 5 times more likely to have a positive COVID-19 test compared to vaccinated people.

November 2, 2021

Analysis of the Effectiveness of the Ad26.COV2.S Adenoviral Vector Vaccine for Preventing COVID-19

Juan Corchado-Garcia, PhD¹; David Zemmour, MD, PhD¹; Travis Hughes, MD, PhD¹; [et al](#)

<https://jamanetwork.com/journals/jamanetworkopen/fullarticle/2785664>

← A study published in JAMA that assessed the J&J vaccine among Mayo Clinic patients found that the vaccine was 74% effective at preventing COVID-19 infection. This study included patients from February 2021 – July 2021, when the alpha variant was common in the United States.

Home // Polling // KFF COVID-19 Vaccine Monitor: October 2021

KFF COVID-19 Vaccine Monitor: October 2021

[KFF COVID-19 Vaccine Monitor: October 2021 | KFF](#)

← While not peer-reviewed literature, polling can help understand sentiment and provide insight that informs planning. This poll by the Kaiser Family Foundation found that in October 2021 27% of parents with children aged 5-11 would get their children vaccinated right away, 33% would wait and see, 5% would get their child vaccinated only if required, and 30% would definitely not get their children vaccinated.

USA & MI

Spread

Children

Hospitalizations

Vaccinations

Variants

Risk Levels

Other

Media

Science
Roundup