

Ottawa County COVID-19 Epidemiology

November 18, 2021

Data as of November 13, 2021, unless otherwise indicated

Executive Summary

- Transmission in both the US and Michigan is increasing
- Ottawa community transmission has reached pandemic highs
 - Positivity increased to 25.5% last week (highest in pandemic). The goal is to be less than 8%*.
 - Weekly case counts in Ottawa increased 46%, from 1,331 two weeks ago to 1,938 last week.
 - Cases among children increased 41%, from 344 two weeks ago to 484 last week.
- Ottawa area and regional hospitals continue to see many COVID-19 patients
 - In Ottawa County, 25% of all available beds and 35% of ICU beds are occupied by COVID-19 patients.**
 - Regional healthcare systems are extremely strained and asking for the community to take preventive action.
- Pediatric hospitalizations across the US have plateaued, but hospitalizations among children in Michigan continue to increase.
 - At a large West Michigan healthcare system, weekly hospital census for children with COVID-19 reached the highest level seen through the pandemic two weeks ago, and remained elevated last week.
- Of Ottawa County residents aged 5+, 56% 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.

Public Health Recommendations

Get vaccinated

Stay home when sick & get tested

Wear your mask in public indoor places

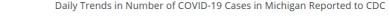
Ottawa County Metrics by Week

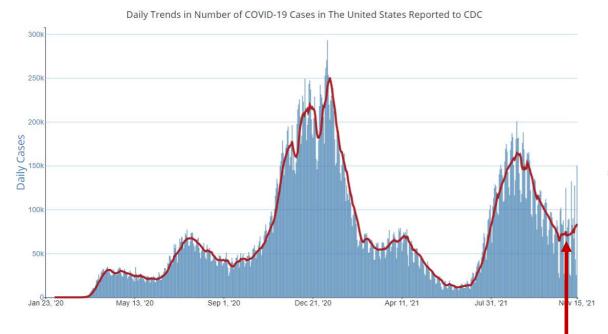
Metric	Goal	16-Oct-21	23-Oct-21	30-Oct-21	6-Nov-21	13-Nov-21
Positivity (All Ages)	<8%	16.0%	16.0%	17.3%	21.2%	25.5%
Weekly Cases (All Ages)	<147	958	848	933	1331	1938
Weekly Cases in Children (0-17 years of age)	NA	199	163	219	344	484
Total COVID-19 Hospitalizations (All Ages)	0	34	32	28	30	27
Total Deaths (All Ages)	0	8	9	7	8	13
CDC Risk Transmission Level	Moderate	High	High	High	High	High

Case Trends in the USA and Michigan

USA

Michigan







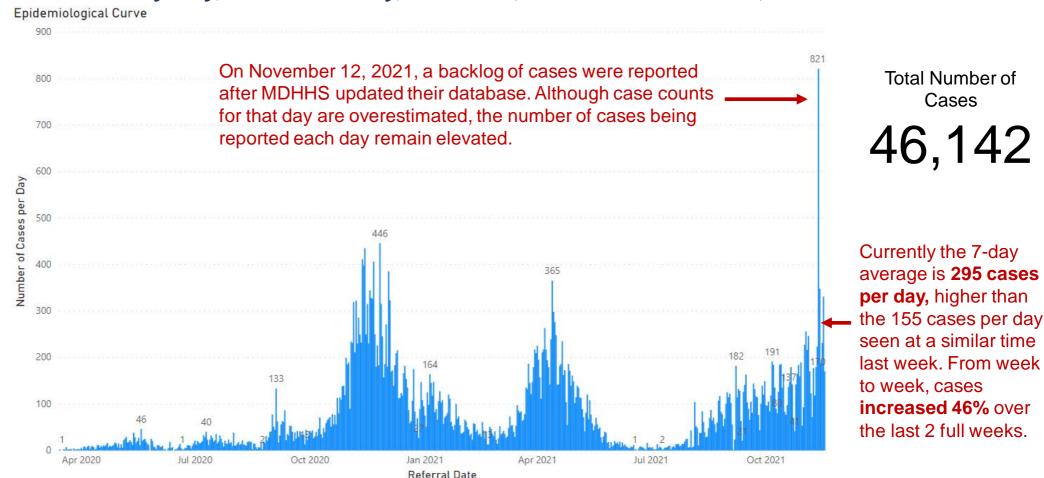
The US and Michigan are both experiencing increasing trends.

Source: https://covid.cdc.gov/covid-data-tracker/#trends_dailycases Data through November 15, 2021

Media

Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 - November 17, 2021



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. 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

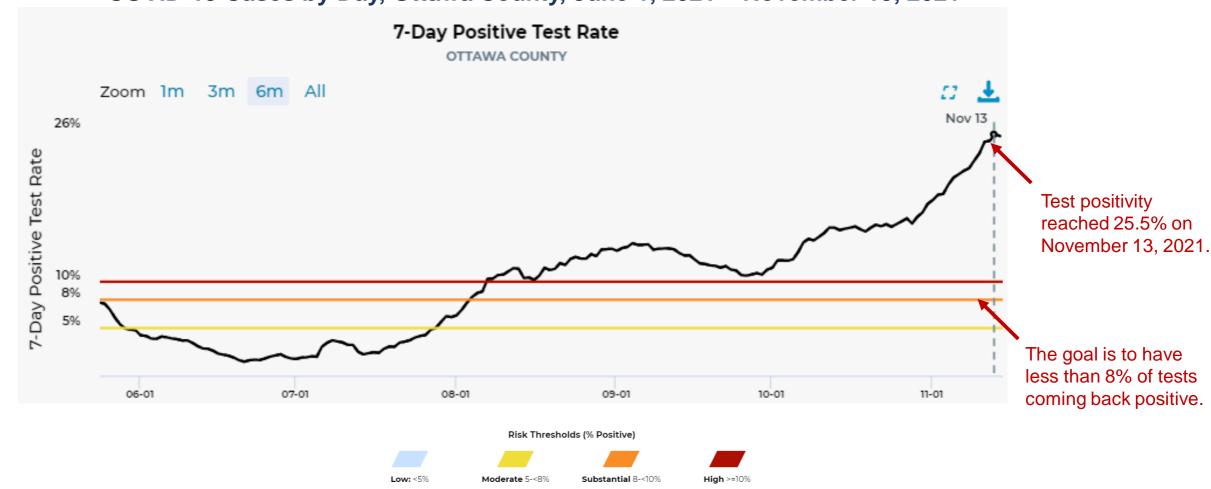
Variants

Science Roundup

USA & MI

Test Positivity in Ottawa County

COVID-19 Cases by Day, Ottawa County, June 1, 2021 – November 13, 2021



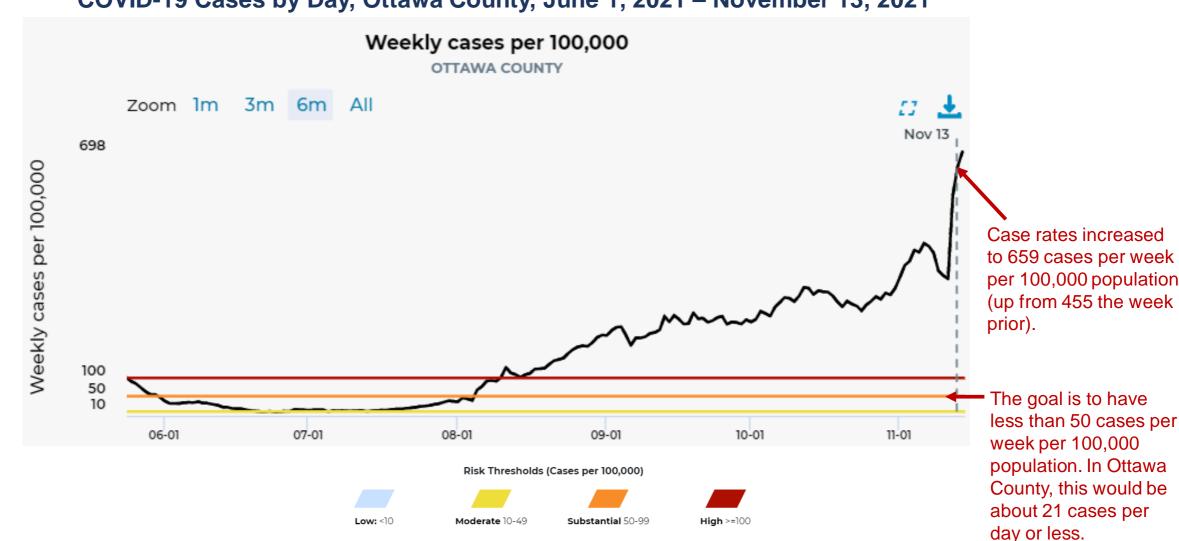
Variants

Note: Testing in Ottawa County has remained stable with 6000-8000 tests conducted each week over the last 3 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 - November 13, 2021



Variants

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

Science Roundup

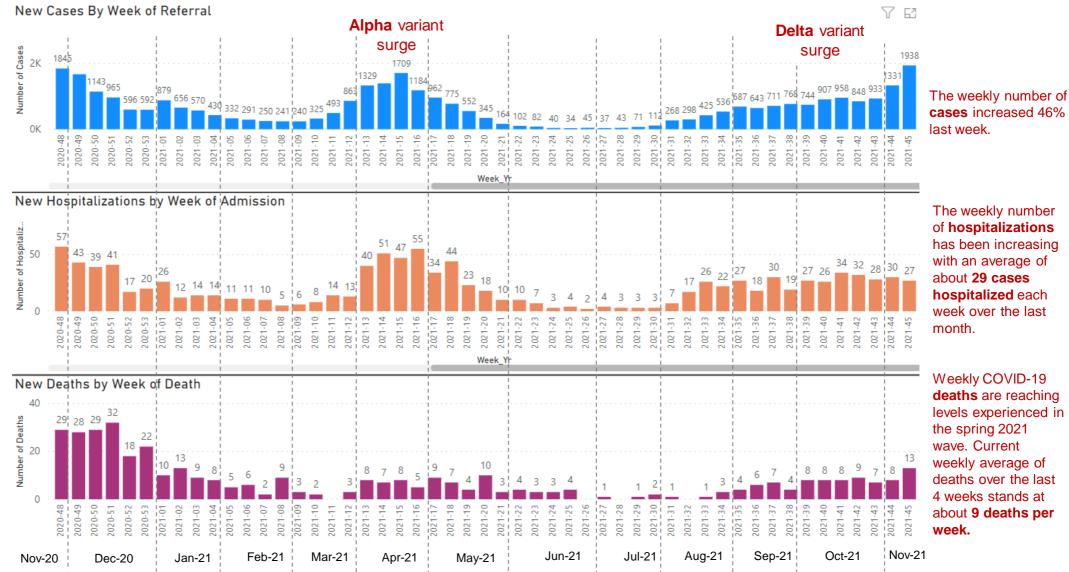
USA & MI

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

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

Hospitalizations are likely underestimated because:

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



Variants

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

Ottawa County Weekly Case Counts and % Change, by Age

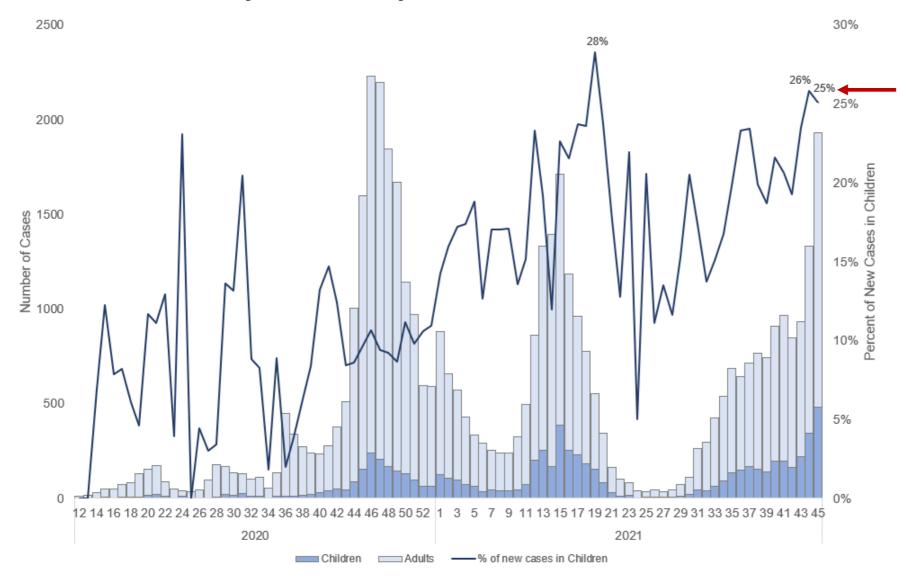
	Adults (18+)		Children (0-17 years)		Total			
Week Ending	Number	% Change from Previous Week	Number	% Change from Previous Week	Number	% Change from Previous Week		
3-Jul-21	40		5		45			
10-Jul-21	32	-20%	5	0%	37	-18%		
17-Jul-21	38	19%	5	0%	43	16%		
24-Jul-21	60	58%	11	120%	71	65%		
31-Jul-21	89	48%	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%	197	45%	907	22%		
16-Oct-21	765	7%	199	1%	958	6%		
23-Oct-21	684	-11%	163	-18%	847	-12%		
30-Oct-21	714	4%	219	34%	933	10%		
6-Nov-21	987	38%	344	57%	1331	43%		
13-Nov-21	1454	47%	484	41%	1938	46%		
	Adults Children							

Weekly case counts among children increased 41% last week, and cases in adults increased 47%.

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

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

Ottawa County Weekly Case Counts and % in Children (0-17)



Children make up an increasing proportion of cases reported. This past week, **25% of cases were in children**, the third highest of any week through the entire pandemic. Last week was also 2 consecutive weeks with 25% or more cases among children.

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

Data through Week 45, 2021

Science

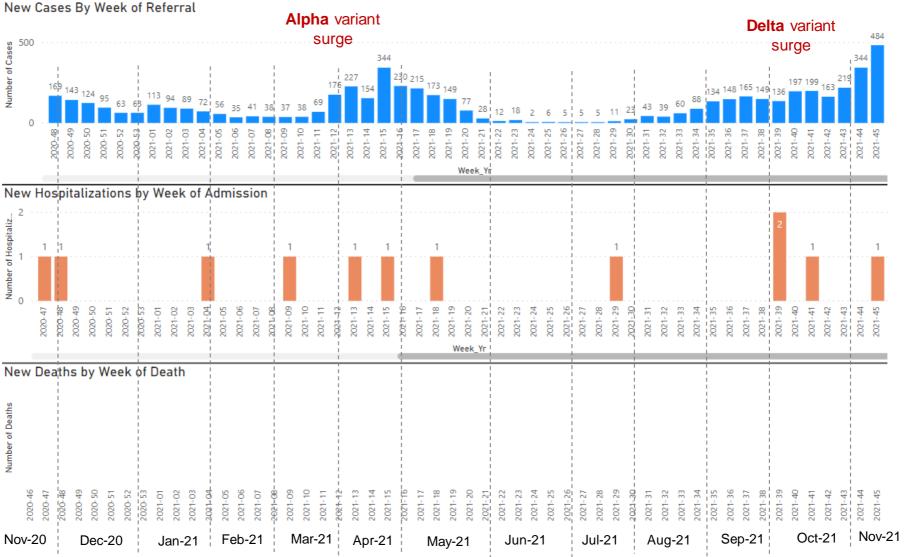
Roundup

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

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.



The weekly number of cases among children increased 41% in the last 2 full weeks.

Hospitalizations are likely **underestimated** because:

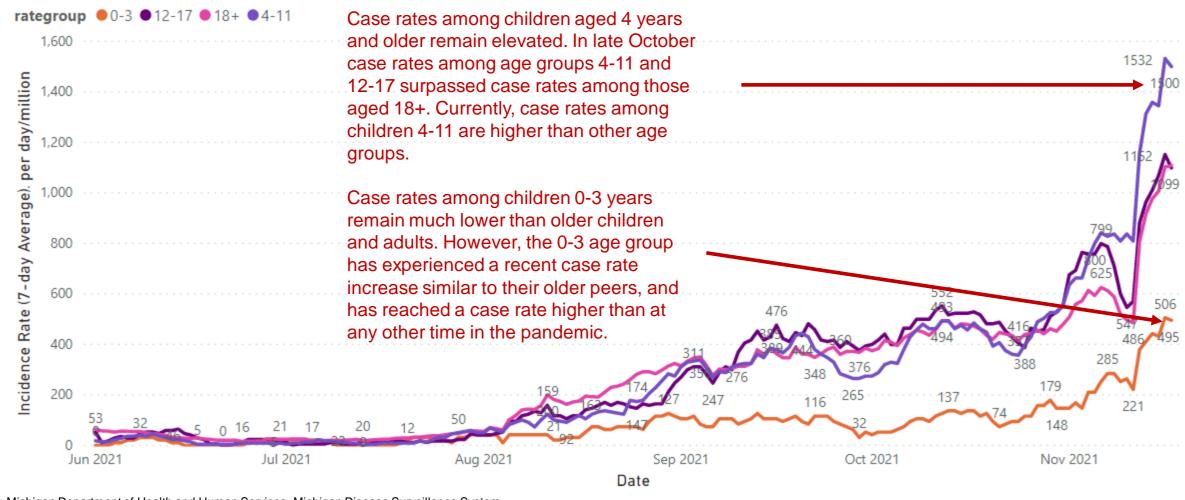
- (i) Hospitalization status is obtained only by manual review, and
- Hospitalization may occur after public health interview.

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 17, 2021

Incidence Rate (7-day Average)



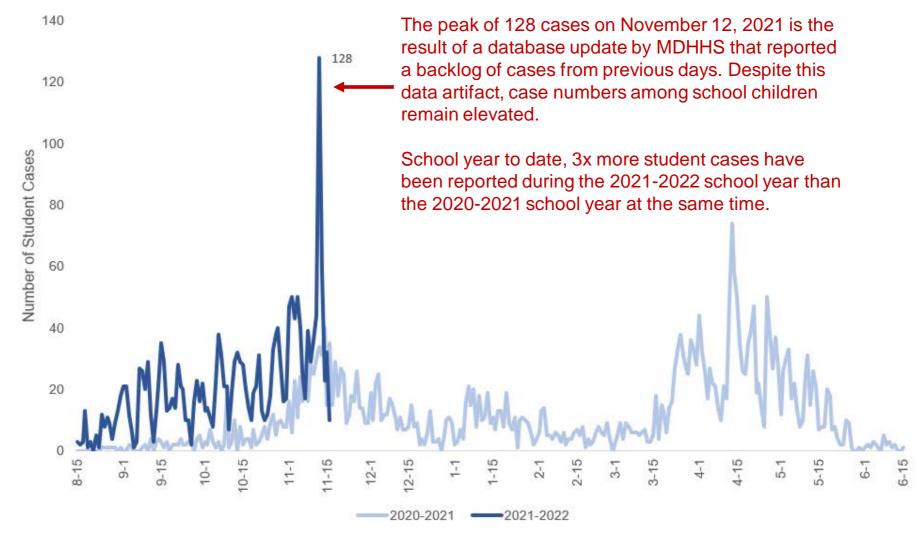
Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Data as of November 17, 2021

Science

Roundup

Ottawa County Cases in PreK-12 School Students



Method: Includes PreK-12 students known to attend a school in Ottawa County who are classified as a confirmed or probable case of COVID-19.

Note: Data may change as information is updated and methods are refined. Cases reported in 2021 will likely increase.

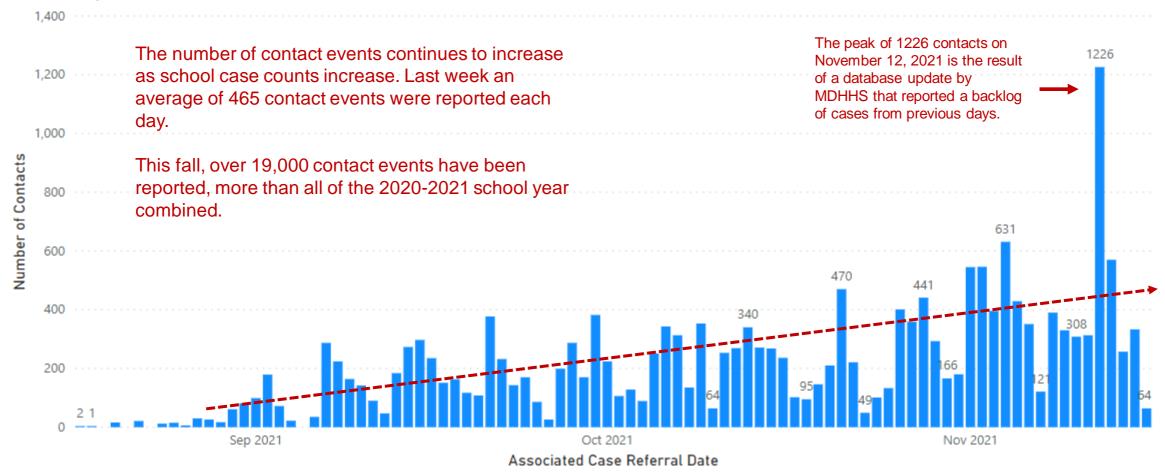
Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System; Internal data systems

Data through November 16, 2021

Ottawa County PreK-12 School Contact Events

Contact Events by Day, Ottawa County, August 14, 2021 - November 16, 2021

Contacts by Case Referral Date

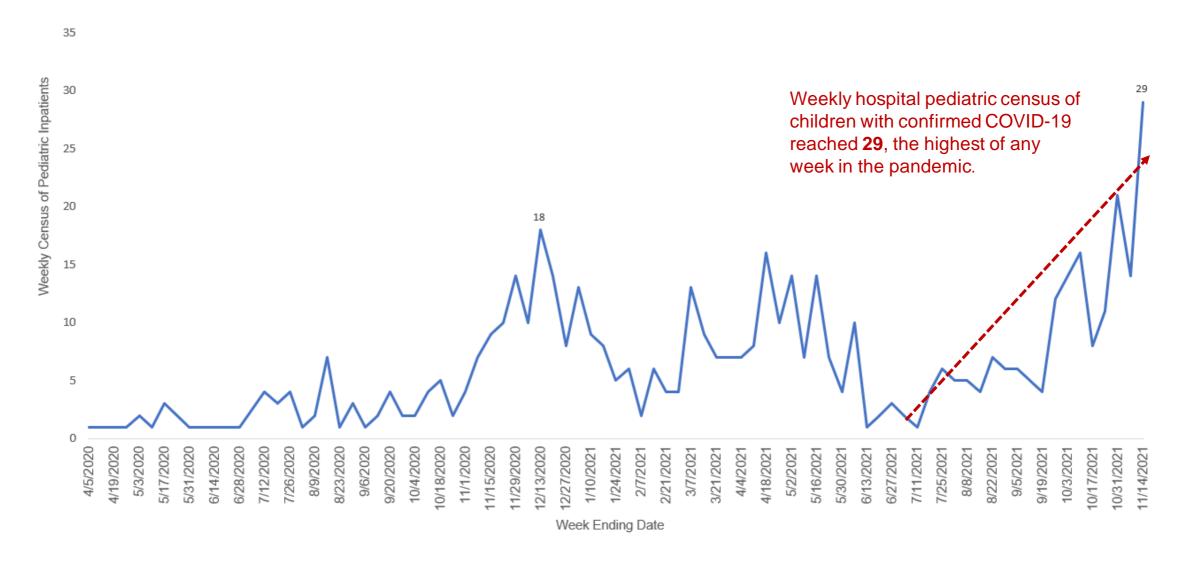


Method: Includes staff and student contact events to confirmed or probable case of COVID-19 in PreK-12 schools in Ottawa County.

Note: Duplicate events may be present.

Source: Internal data systems Data through November 16, 2021

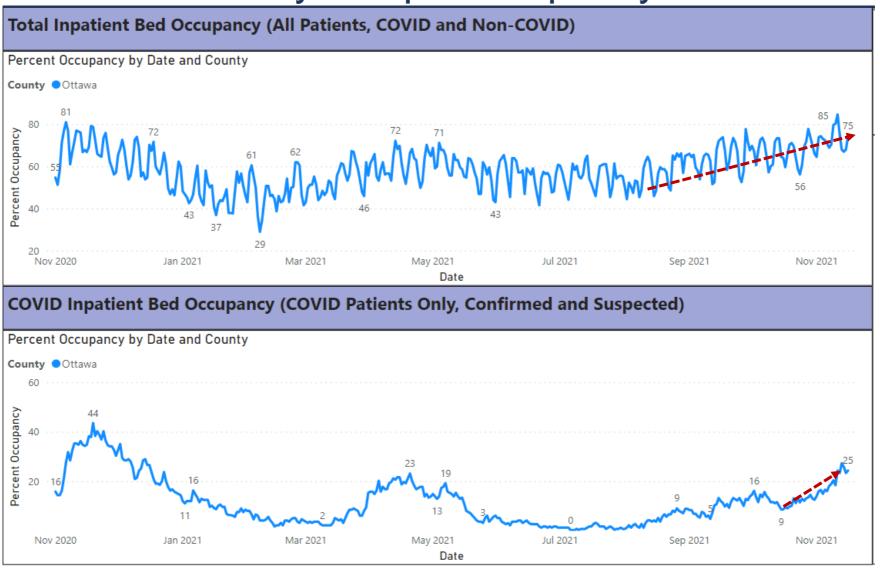
Weekly Hospital Pediatric Census – A Regional Healthcare System



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. Includes patients that reside in counties across the region, including Ottawa County.

Data through November 14, 2021

Ottawa County Hospital Capacity – All Beds

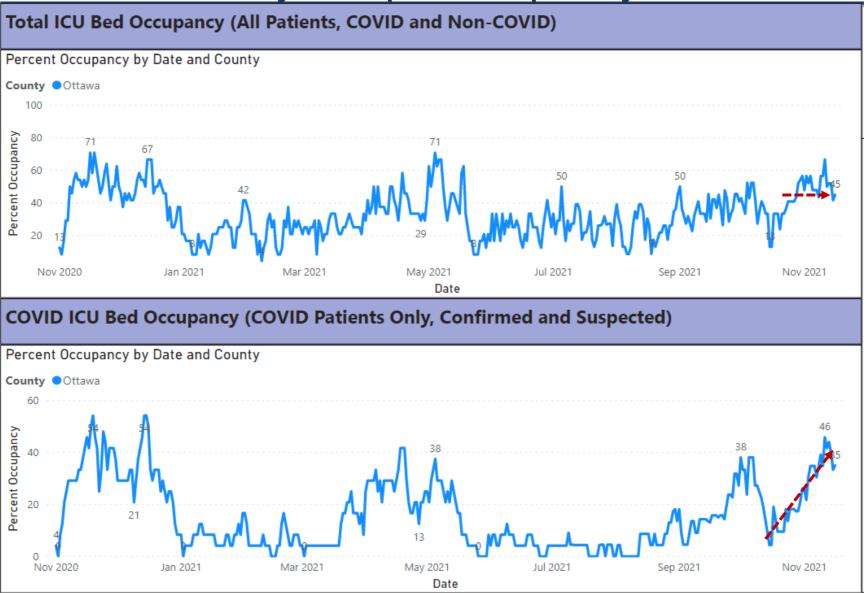


Total hospital bed occupancy is increasing, as is the proportion of beds occupied by COVID-19 patients.

Currently 25% of all inpatient beds are occupied by COVID-19 patients.

Source: EMResources Data through November 16, 2021

Ottawa County Hospital Capacity – ICU Beds



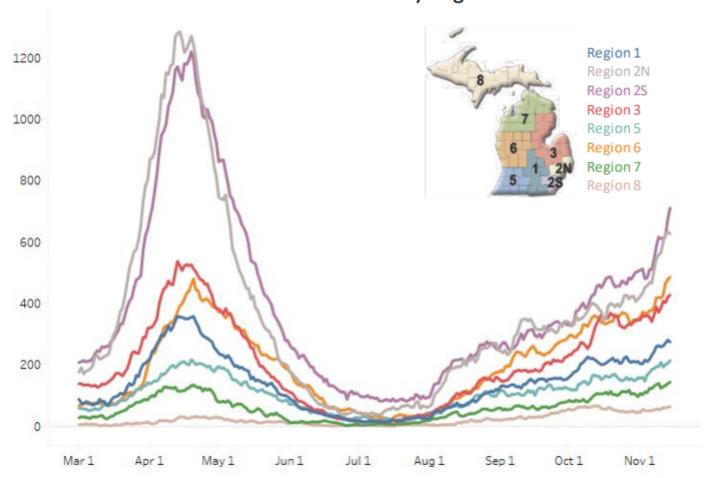
Overall ICU bed occupancy remains elevated.

The proportion of ICU beds occupied by COVID-19 patients is increasing. Currently, 35% of ICU beds are occupied by COVID-19 patients.

Source: EMResources Data through November 16, 2021

Statewide Hospitalization Trends: Regional COVID+ Census

Hospitalization Trends 3/1/2021 – 11/14/2021 Confirmed Positive by Region



The census of COVID+ patients have increased across all regions. Region 2S had the fastest growth this week.

Regions 2S, 3, and 6 now have greater than 300 people hospitalized per Million population.

Region	COVID+ Hospitalizations (% Δ from last week)	COVID+ Hospitalizations / MM
Region 1	274 (6%)	253/M
Region 2N	627 (15%)	283/M
Region 2S	710 (21%)	319/M
Region 3	427 (10%)	377/M
Region 5	213 (10%)	223/M
Region 6	485 (16%)	331/M
Region 7	143 (6%)	286/M
Region 8	63 (13%)	202/M

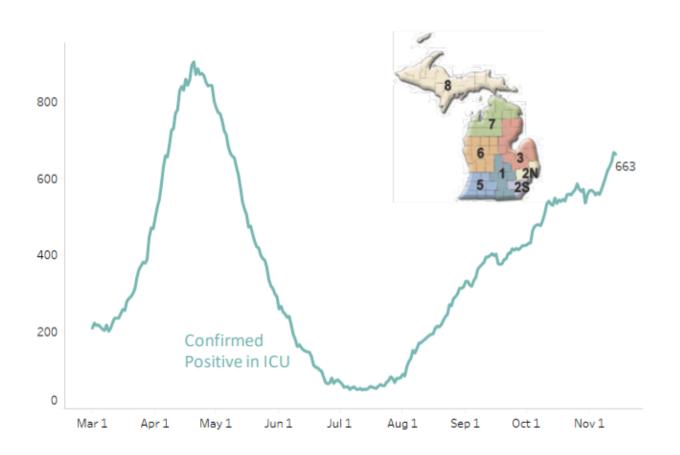
Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20211116_Data_and_modeling_update_vMEDIA_741480_7.pdf

Variants

Spread

Statewide Hospitalization Trends: ICU COVID+ Census

Hospitalization Trends 3/1/2021 – 11/14/2021 Confirmed Positive in ICUs



Overall, the census of COVID+ patients in ICUs has increased 13% from last week. 7/8 Regions experienced growth.

Regions 1, 3, and 7 have overall adult ICU occupancy greater than or equal to 85%. Regions 1, 3, 6, 7 and 8 have more than 30% of ICU beds filled with COVID+ patients. Region 6 has >40% of ICU beds occupied with COVID+ patients.

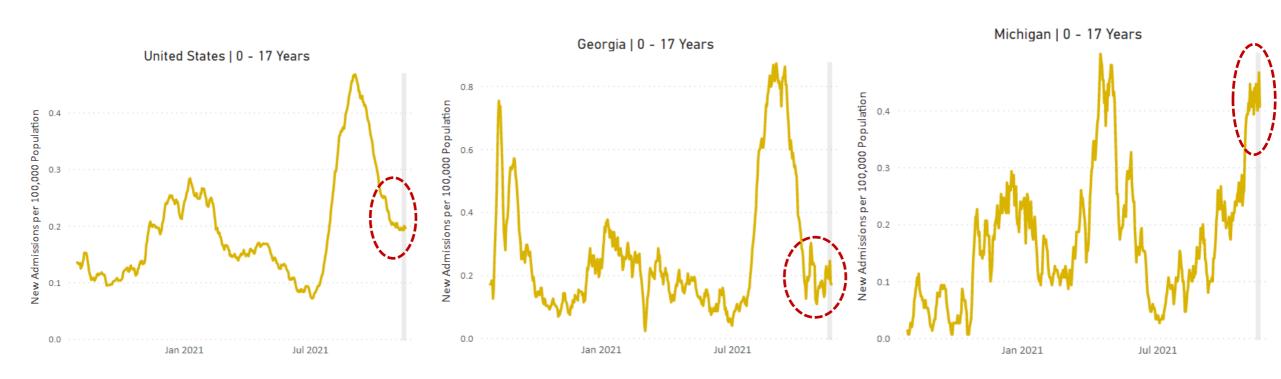
	Region	Adult COVID+ in ICU (% Δ from last week)	Adult ICU Occupancy	% of Adult ICU beds COVID+	
	Region 1	69 (41%)	93%	36%	
	Region 2N	119 (6%)	83%	21%	
	Region 2S	146 (11%)	84%	21%	
	Region 3	107 (26%)	91%	31%	
	Region 5	46 (2%)	77%	25%	
	Region 6	110 (10%)	83%	41%	
Ī	Region 7	47 (-2%)	88%	33%	
	Region 8	19 (12%)	70%	30%	

Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20211116 Data and modeling update vMEDIA 741480 7.pdf

Variants

Spread

Pediatric Hospitalization Rates – USA, Georgia, Michigan



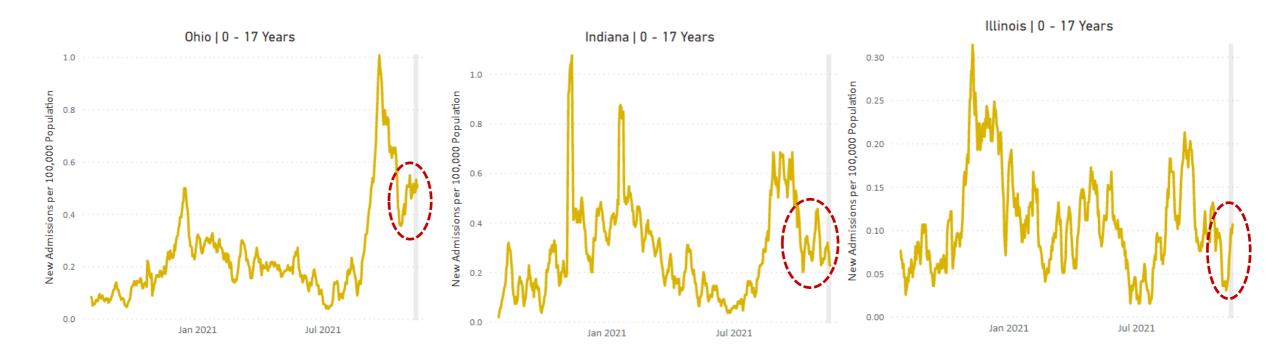
Pediatric hospitalization rates across the United States may be rebounding after a substantial decline. Most southern states (such as Georgia) have decreased substantially. Michigan pediatric hospitalization rates continue to increase, reaching some of the highest rates experienced through the entire pandemic.

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

Accessed November 17, 2021

Science

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 has plateaued while Illinois pediatric hospitalization rates may be rebounding.

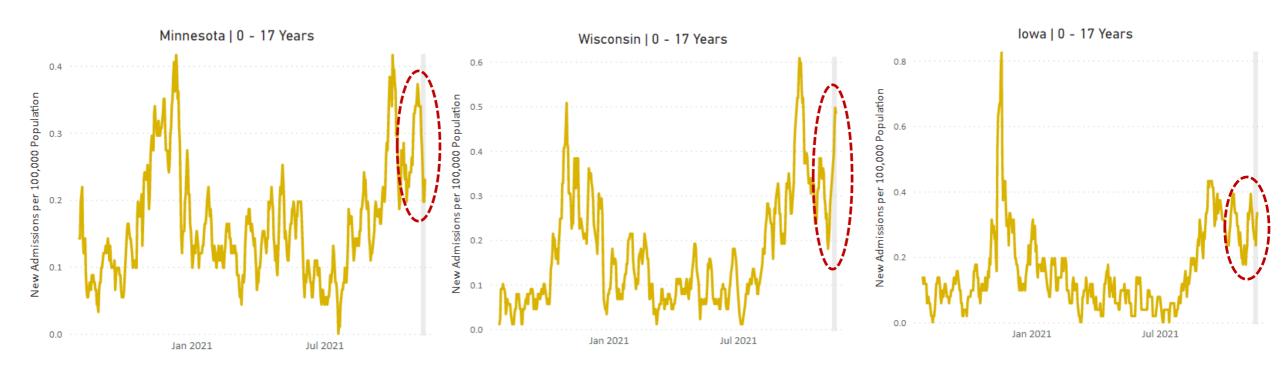
Variants

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

Accessed November 17, 2021

Science

Pediatric Hospitalization Rates – Select Midwest States



Pediatric hospitalization rates in Minnesota, and Wisconsin remain elevated, with Iowa showing a general plateau.

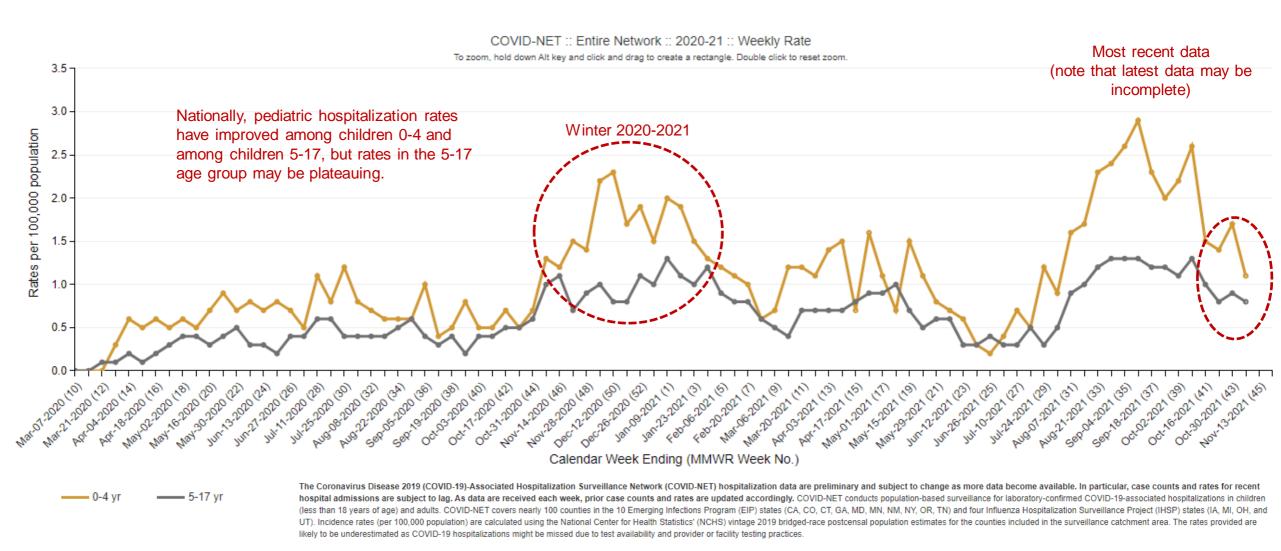
Variants

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

Accessed November 17, 2021

Science

Pediatric Hospitalization Rates by Age Group – USA



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

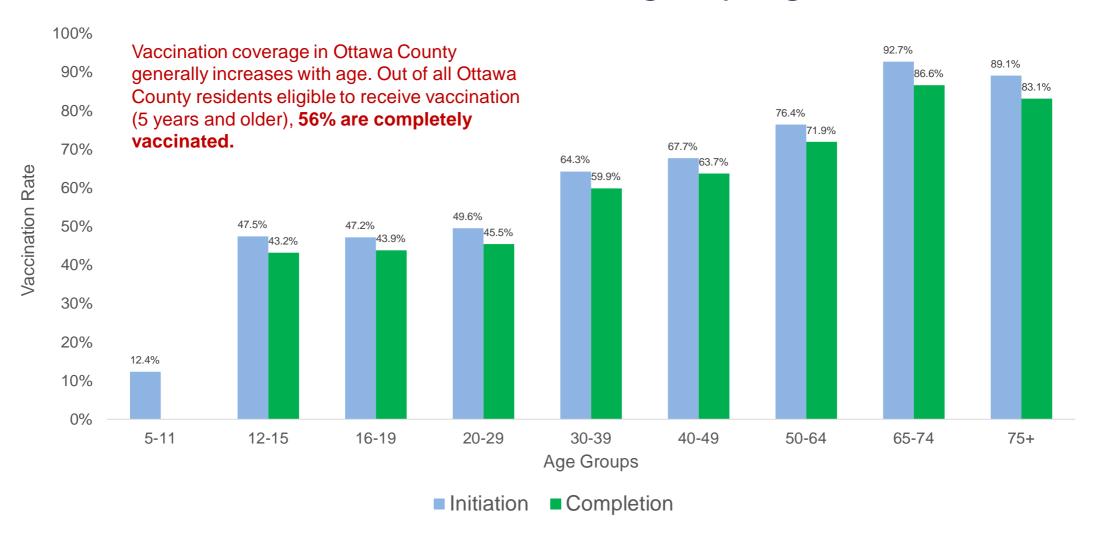
Spread

USA & MI

Accessed November 17, 2021

Science Media Roundup

Vaccination Coverage by Age



Variants

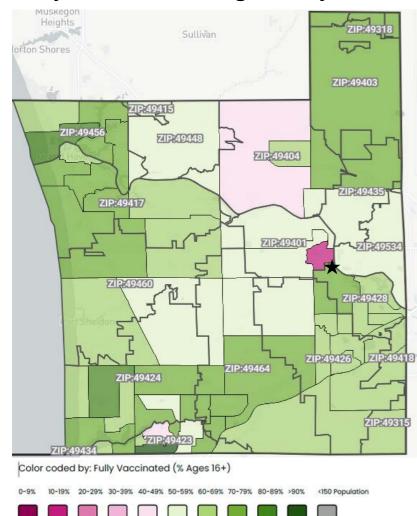
Source: https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

Data through November 17, 2021

Science

Vaccination Coverage by Place of Residence

Fully vaccinated: % Ages 16+ years

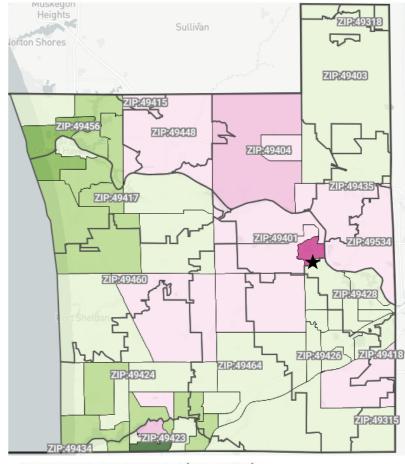


Vaccination rates vary across Ottawa County, but most areas have at least 50% of the population aged 16+ completely vaccinated (left).

When considering the entire population (not just those aged 16+), there are pockets of the county with much higher and much lower vaccination rates (right).

★ 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.

Fully vaccinated: % Total Population



Color coded by: Fully Vaccinated (% Population)

10-19% 20-29% 30-39% 40-49% 50-59% 60-69% 70-79% 80-89% >90%



Source: MI-Lighthouse Internal Dashboard

Cumulative Cases by Vaccination Status, Ottawa County, January 15, 2021 – November 13, 2021

Fully Vaccinated People (153,691)							
Cases	Hospitalizations	Deaths					
Percent of Cases in People	Percent of Hospitalizations in People	Percent of Deaths in People					
Not Fully Vaccinated	Not Fully Vaccinated	Not Fully Vaccinated					
(21,202 / 25,173)	(676 / 846)	(144 / 191)					
84.2%	79.9%	75.4%					
Total Cases Not Fully Vaccinated	Total Hospitalized Not Fully Vaccinated	Total Deaths Not Fully Vaccinated					
21,202	676	144					
Total Breakthrough Cases	Total Breakthrough Hospitalizations	Total Breakthrough Deaths					
3,971	170	47					
Percent of Fully Vaccinated People who	Percent of Fully Vaccinated People who were	Percent of Fully Vaccinated People who					
Developed COVID-19	Hospitalized for COVID-19	Died of COVID-19					
(3,971 / 153,691)	(170 / 153,691)	(47 / 153,691)					
2.584%	0.111%	0.031%					
Percent of Cases who were	Percent of Hospitalizations who were	Percent of Deaths who were					
Fully Vaccinated	Fully Vaccinated	Fully Vaccinated					
(3,971 / 25,173)	(170 / 191)	(47 / 191)					
15.8%	20.1%	24.6%					
Total Cases	Total Hospitalizations	Total Deaths					
25,173	846	191					

Sources:

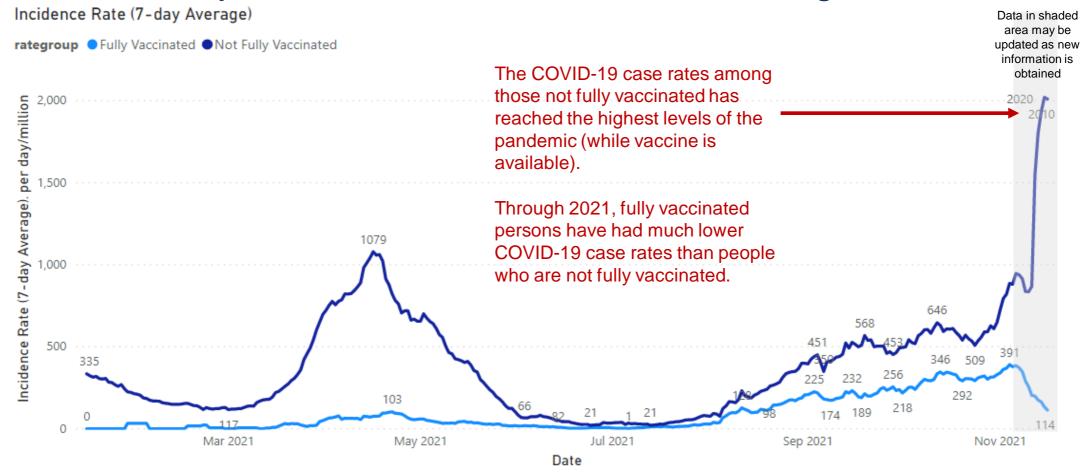
Michigan Department of Health and Human Services, Michigan Disease Surveillance System

MDHHS COVID-19 Dashboard: https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

Other Media Science Roundup

Risk Levels

Ottawa County COVID-19 Vaccination Breakthrough Case Trends



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.

Variants

Sources:

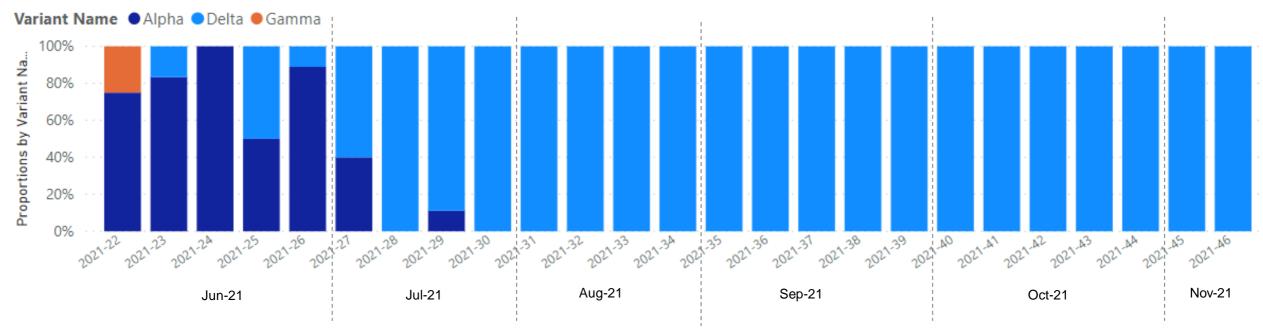
Michigan Department of Health and Human Services, Michigan Disease Surveillance System MDHHS COVID-19 Dashboard: https://www.michigan.gov/coronavirus/0,9753,7-406-98178_103214_103272-547150--,00.html

Science Roundup

Spread

Variants – Clinical Samples from Ottawa County Residents

Variant Proportions by Week



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.

Science Roundup

^{*} 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

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	Υ	N
9/6/2021	North Holland	Υ	N	N	N	Υ	N
9/7/2021	Zeeland	N	N	N	N	N	N
9/9/2021	North Holland	N	N	N	N	Υ	N
9/10/2021	Zeeland	N	N	N	N	Υ	N
9/14/2021	Zeeland	N	N	N	N	Υ	Ν
9/16/2021	North Holland	N	N	N	N	N	N
9/21/2021	Zeeland	N	N	N	N	Υ	N
9/22/2021	North Holland	N	N	N	N	N	Ν
9/23/2021	Zeeland	N	N	N	N	Υ	N
9/26/2021	North Holland	Υ	N	N	N	Υ	N
9/29/2021	North Holland	N	N	N	N	Υ	N
9/30/2021	Zeeland	N	N	N	N	Υ	N
10/3/2021	North Holland	Υ	N	N	N	Υ	N
10/4/2021	Zeeland	N	N	N	N	Υ	N
10/6/2021	North Holland	N	N	N	N	N	И
10/7/2021	Zeeland	N	N	N	N	Υ	N
10/10/2021	North Holland	N	N	N	N	Υ	N
10/17/2021	North Holland	Υ	N	N	N	Υ	N
10/11/2021	Zeeland	N	N	N	N	Υ	N
10/18/2021	Zeeland	N	N	N	N	Υ	N
10/20/2021	North Holland	Υ	N	N	N	N	N
10/24/2021	North Holland	N	N	N	N	Υ	N
10/21/2021	Zeeland	N	N	N	N	Υ	N
10/25/2021	Zeeland	N	N	N	N	Υ	N
10/27/2021	North Holland	N	N	N	N	Υ	N
10/28/2021	Zeeland	N	N	N	N	Y	N
10/31/2021	North Holland	N	N	N	N	Υ	N
11/3/2021	North Holland	N	N	N	N	Υ	N
11/7/2021	North Holland	N	N	N	N	Υ	N
11/1/2021	Zeeland	N	N	N	N	Υ	N
11/4/2021	Zeeland	N	N	N	N	Y	N
11/8/2021	Zeeland	N	N	N	N	Υ	N

The **Delta** variant was consistently detected in Holland and Zeeland wastewater samples through all October and early November 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.

Media

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

Science Roundup

= Detected

= Not Detected

Spread

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.

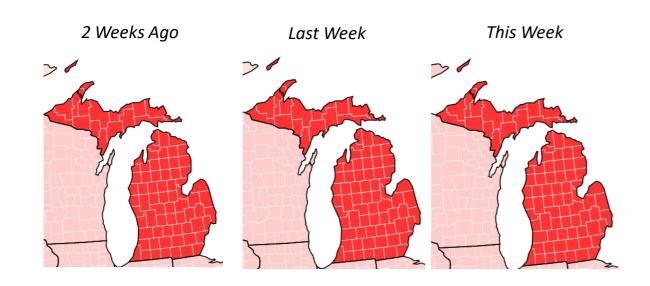
Variants

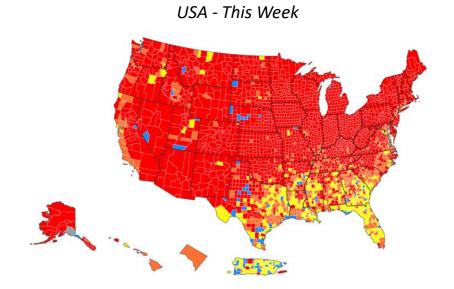
Source: https://covid.cdc.gov/covid-data-tracker/#county-view

Science Roundup

CDC Community Transmission Risk Levels – Ottawa County

- Current Risk Level in Ottawa HIGH (for last 13+ weeks)
- Current Data:
 - Positivity = 24.4%
 - Case Rate = 692.87 cases per week per 100,000





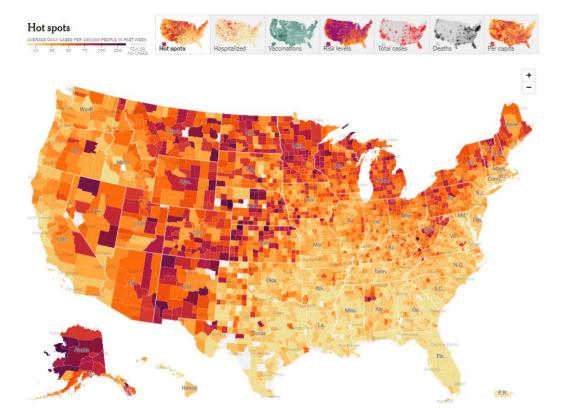
Source: https://covid.cdc.gov/covid-data-tracker/#county-view

Data through November 14, 2021 for positivity and November 16, 2021 for case rates

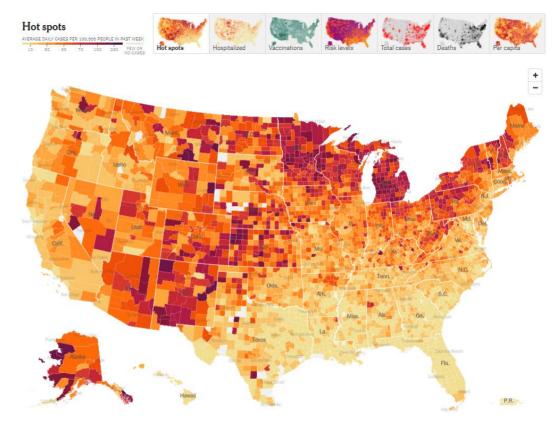
Risk Levels
Other
Media
Science
Roundup

COVID-19 Case Rates by County Across the US

Last Week



This Week



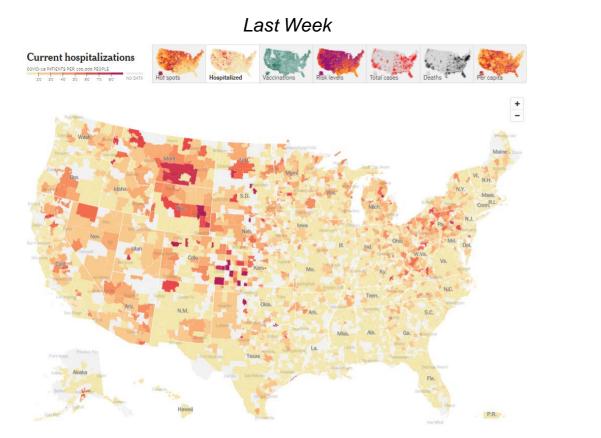
Case rates in the deep South have improved substantially and Appalachia remains stable. Many midwestern states, Alaska, the upper Midwest, and New England are experiencing elevated case rates. Michigan is experiencing particularly elevated case rates.

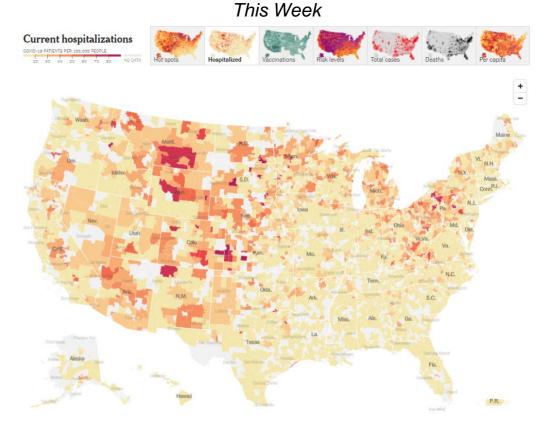
Source: https://www.nytimes.com/interactive/2021/us/covid-cases.html

Accessed November 18, 2021

Risk Levels

COVID-19 Hospitalization Rates by County Across the US





Other

Hospitalization rates continue to improve in the South and Appalachia, while some western states - particularly Montana and Wyoming - are experiencing elevated hospitalization rates. Pockets of Colorado and western Kansas are also seeing elevated hospitalizations. More areas in Michigan are seeing higher hospitalization rates this week.

Source: https://www.nytimes.com/interactive/2021/us/covid-cases.html Accessed November 18, 2021

Variants

Media

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

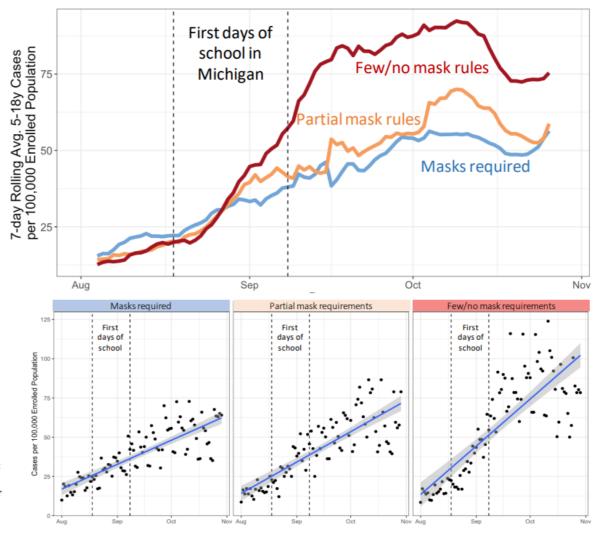
Notes: List may not be comprehensive; because children aged 5-11 years are now eligible for vaccination, Ottawa County's PreK-6 mask mandate is scheduled for rescinding in early January 2022.

MDHHS Evaluation Shows Higher Case Rates in School Districts with Fewer Mask Rules

Districts without mask requirements are experiencing higher case rates

- 5–18-year-old school population case rates are higher and rose faster in districts without mask requirements
- Districts with complete or partial mask requirements have seen lower case rates with slower increases
- Note districts may change categories as mask rules change
- · Note that districts with mask rules may also have other prevention measures (vaccination, testing, etc.) that reduce transmission levels

Masks required = mask required for all grades; Partial mask reg. = tiered, some grades, based on vax status, staff only; Few/no req. = no req. or buses only. Blue line & shaded region is a linear trend fit. Data Sources: MDSS/MDHHS case data as of 10/29/21 geocoded to school district, EOG School District Mask Policy Tracker data. Note: Cases are among all 5-18 year olds, population is the school-enrolled population.



Source: https://www.michigan.gov/documents/coronavirus/20211109 Data and modeling update vFINAL 741084 7.pdf

USA & MI

Variants

COVID-19 News Headlines & Letters

LOCAL NEWS

West Michigan hospitals are 'overwhelmed' and 'at a tipping point'

-

The uptick in COVID cases and other illnesses has resulted in longer wait times, delays and visitor restrictions.

https://www.wzzm13.com/article/news/local/health-care-professionals-in-west-michigan-say-they-are-at-a-tipping-point/69-acab012b-6375-464c-8199-198213ae88ed

CORONAVIRUS

Longer Thanksgiving breaks aim to support mental health amid pandemic struggles

https://www.woodtv.com/health/coronavirus/several-school-districts-extend-thanksgiving-break-amid-covid-19-spike/

LOCAL NEWS

Local hospitals plead with community as capacities reach record highs

"The number one thing hospitals are asking is to please reconsider if you have not been vaccinated," said Jen VanSkiver.

https://www.wzzm13.com/article/news/local/we-need-you-now-more-than-ever-local-hospitals-plead-with-community-as-capacities-reach-record-highs/69-9927da23-2248-4fc3-914a-cb33b6ba6f68



Our community is experiencing a period of increased serious illness taking a toll on Holland Hospital's team and resources, and the challenges we face impact the entire community.

Letter to the Community | News | Holland Hospital

Science Roundup

Science Roundup

Research

Effectiveness of public health measures in reducing the incidence of covid-19, SARS-CoV-2 transmission, and covid-19 mortality: systematic review and meta-analysis

https://www.bmj.com/content/375/bmj-2021-068302

A systematic review of COVID-19 prevention measures found that mask-wearing and physical distancing are associated with reductions in COVID-19 case rates

November 15, 2021

The Role of Face Masks in the Recognition of **Emotions by Preschool Children**

https://jamanetwork.com/journals/jamapediatrics/article-abstract/2786226

A research letter published in JAMA found that preschool children "recognized emotions on pictures better than has been reported in previous research, even with face masks".

Risk factors for SARS-CoV-2 infection among health care workers

https://www.ajicjournal.org/article/S0196-6553(21)00718-5/fulltext

A French study of healthcare workers found that risk of COVID-19 infection was elevated if they had contact with relatives or other healthcare workers with COVID-19, close or prolonged contact with patients, and participated in aerosol generating procedures. Contact with COVID-19 patients was not associated with increased risk of COVID-19.

> Science Roundup