

Ottawa County COVID-19 Epidemiology

February 3, 2022

Data as of January 29, 2022, unless otherwise indicated

Executive Summary

Transmission in Michigan and the US remains elevated

Ottawa community transmission levels remain elevated

- This past week positivity remained elevated at 33%, but lower than 35.2% seen last week.
- Weekly case counts decreased 25% (+9% two weeks ago), from 4,071 two weeks ago to 3,071 last week.
- Cases among children decreased 27% (+45% two weeks ago), from 924 two weeks ago to 673 last week.
- The Omicron variant continues to be detected in clinical samples from Ottawa County residents, and wastewater signals are suggestive of Omicron.

Ottawa area and regional hospitals are experiencing high numbers of COVID-19 patients

- In Ottawa County, 21% of all available beds and 33% of all ICU beds are occupied by COVID-19 patients.*
- Regional healthcare systems are strained and asking for the community to take preventive action.
- No Ottawa-area hospitals employed Emergency Department diversion last week.**
- Adequate staffing is a challenge for many hospitals in the region, and therapeutics may be in short supply.

Pediatric hospitalization rates in the US and in Michigan remain very elevated.

- From January 17-23, 2022 regional pediatric hospital COVID-19 census was the highest of the pandemic (38).
- In January 2022, MIS-C cases in Ottawa County children reached the highest monthly count of the pandemic (3).
 MIS-C is a rare but serious condition affecting children, associated with recent COVID-19 infection.

Of Ottawa County residents aged 5+, 61.5% are completely 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.

^{**}Emergency Department diversion may have the following impacts: 1) delayed ambulance turnaround, 2) delayed treatment, 3) increasing short- and long-term mortality rates, 4) lost hospital revenue, 5) increased costs for more ICU care that would have been preventable with timely healthcare access.

Ottawa County Metrics by Week

		Week Ending				
Metric	Goal	1-Jan-22	8-Jan-22	15-Jan-22	22-Jan-22	29-Jan-22
Positivity (All Ages)	<8%	25.6%	34.8%	35.5%	35.2%	33.0%
Weekly Cases (All Ages)	<147	1736	3233	3720	4071	3071
Weekly Cases in Children (0-17 years of age)	NA	214	443	636	924	673
Total Deaths (All Ages)	0	21	16	13	15	8
CDC Risk Transmission Level	Moderate	High	High	High	High	High

Due to reduced quality, hospitalization data has been removed from this visualization.

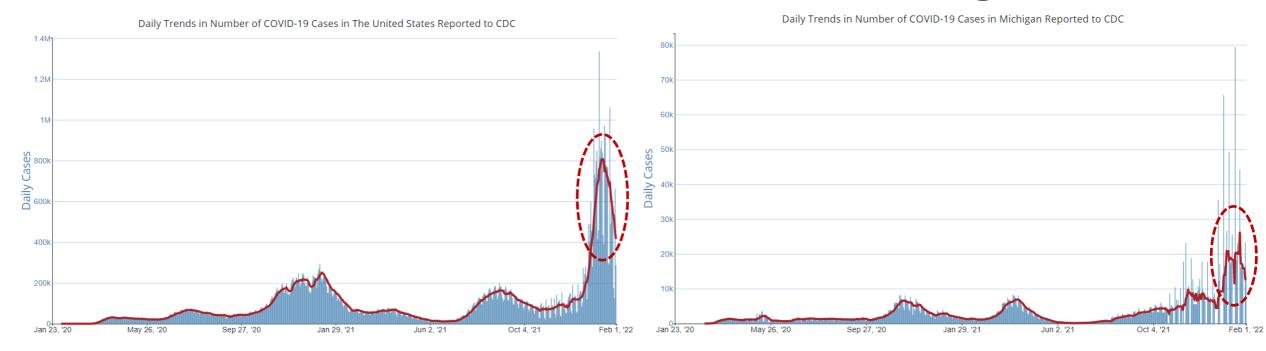
Hospitalization and/or death may occur after initial infection, meaning the number of hospitalizations and deaths from recent weeks may increase.

^{*}Test positivity data is currently unavailable due to technical issues being experienced by the MI Safe Start Map.

Case Trends in the USA and Michigan



Michigan



Daily case counts in Michigan and the US are declining.

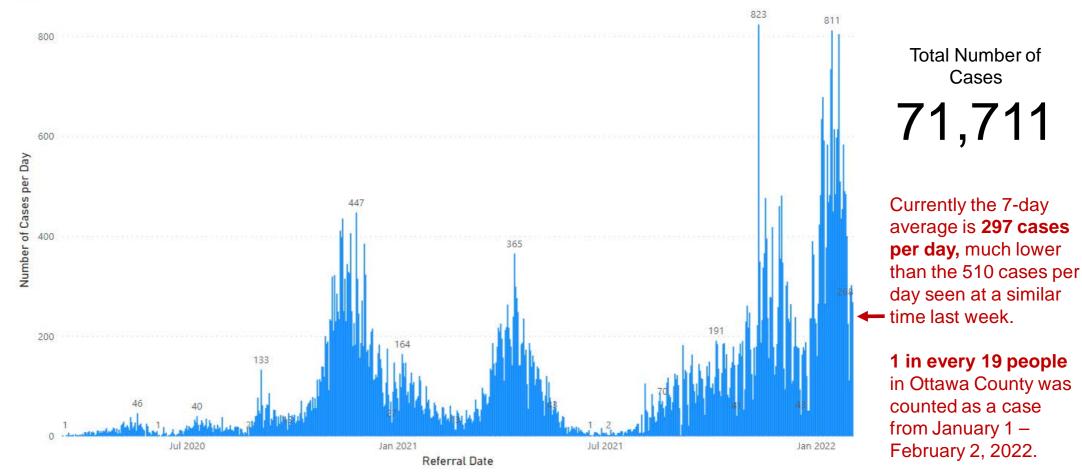
Source: https://covid.cdc.gov/covid-data-tracker/#trends_dailycases

Data through February 1, 2022

Case Trends in Ottawa County

COVID-19 Cases by Day, Ottawa County, March 15, 2020 – February 2, 2022

Epidemiological Curve



Variants

Notes: 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, On November 12, 2021, MDHHS updated their database resulting in a backlog of cases being reported in one day.

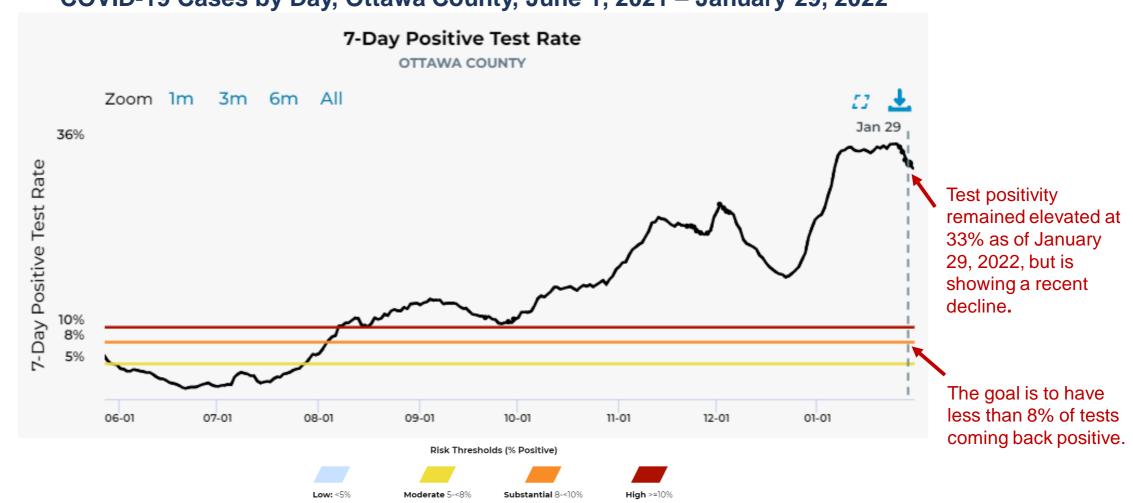
Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Children

Science Roundup

Test Positivity in Ottawa County

COVID-19 Cases by Day, Ottawa County, June 1, 2021 – January 29, 2022



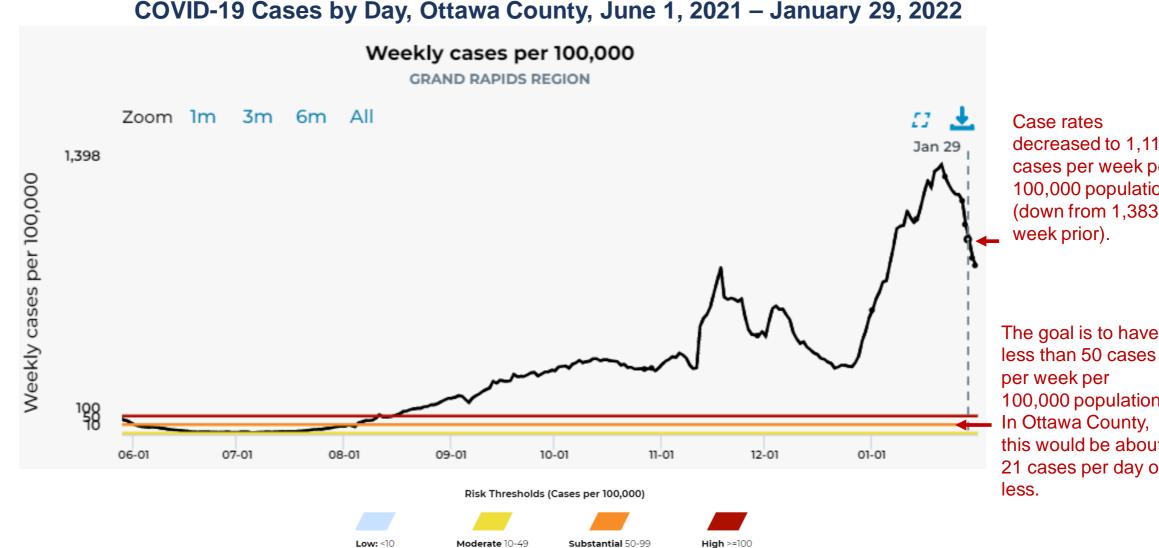
Variants

Note: Testing in Ottawa County has remained stable with at least 6000-11,000 tests each week: Testing Results | Ottawa County Covid-19 Case Summary Data (arcgis.com) & https://www.mistartmap.info/mism-indicators?area=county%3Aottawa

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 – January 29, 2022



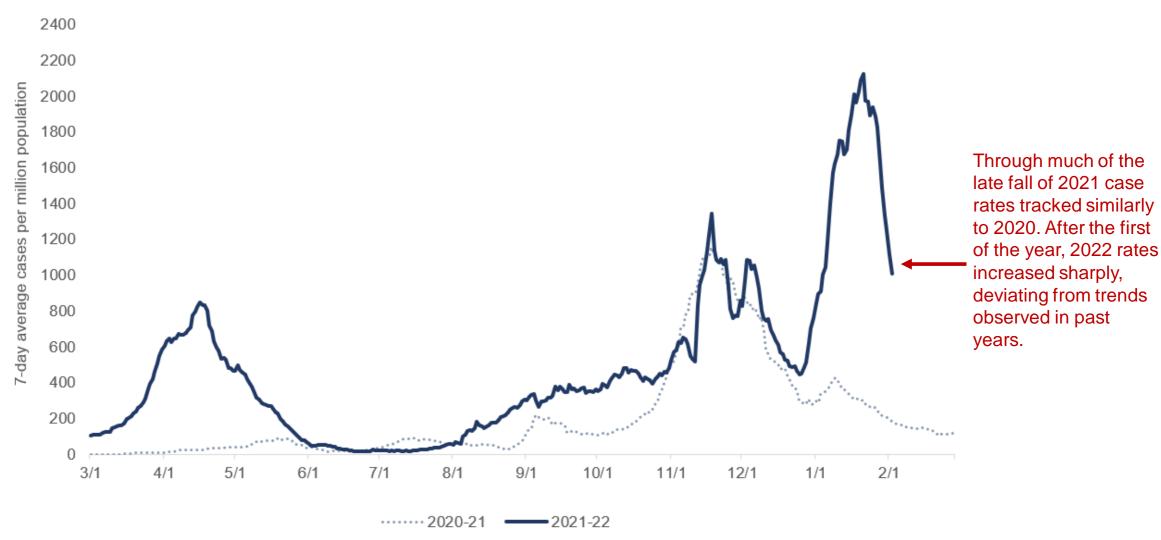
Variants

decreased to 1,111 cases per week per 100,000 population (down from 1,383 the

less than 50 cases 100,000 population. In Ottawa County, this would be about 21 cases per day or

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

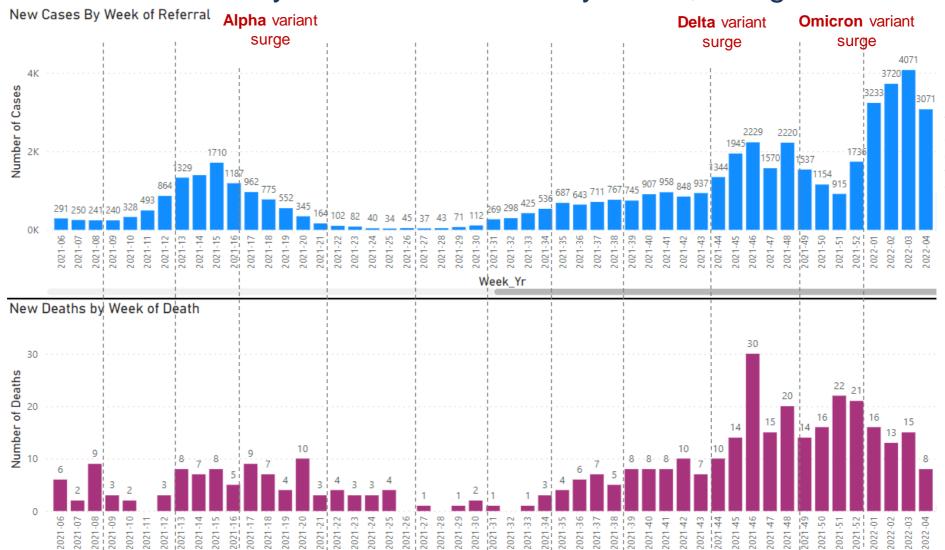
Ottawa County Time Trends – Annual Comparison of Case Rates



Source: Internal Data Data Data through February 2, 2022

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

Ottawa County – Cases & Deaths by Week, All Ages



Aug-21

Variants

Jul-21

The weekly number of cases decreased 25% from week 3 to week 4.

Weekly COVID-19 deaths have exceeded levels experienced in the spring 2021 wave. Current weekly average of deaths over the last 4 weeks stands at about 13 deaths per week.

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

Feb-21

Due to reduced quality, hospitalization data has been removed

from this visualization.

Mar-21

May-21

Apr-21

Jun-21

Oct-21

Nov-21

Other

Sep-21

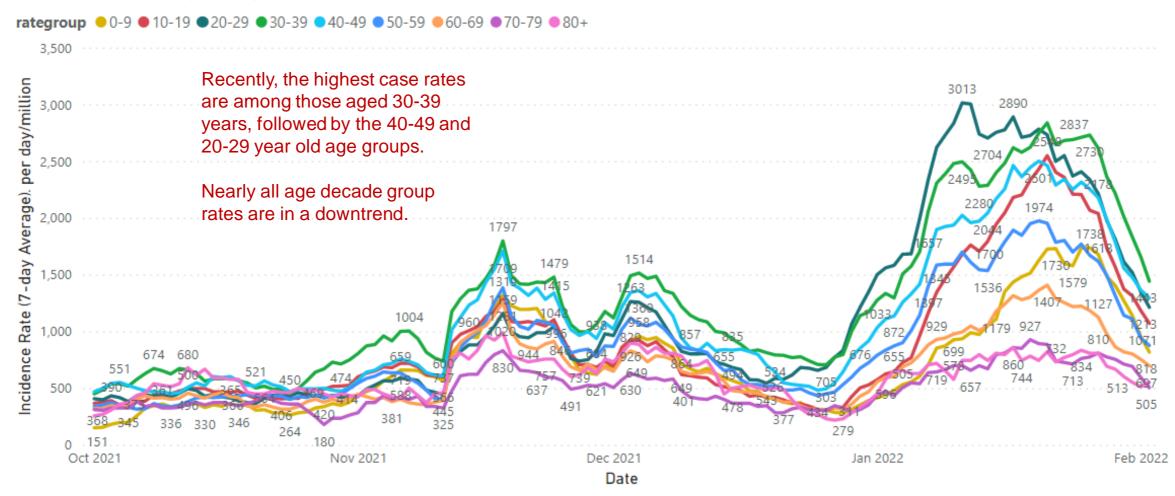
Dec-21

Jan-22

Ottawa County - Case Rate Trends – by Age Decade

COVID-19 Case Rates by Age, October 2021 – February 2, 2022

Incidence Rate (7-day Average)



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

Variants

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 4 (January 23, 2022 – January 29, 2022)

Age Decade (Years)	Average Daily Cases	Average Daily Case Rate	One Week % Rate Change
0-9	51.7	1404.0	-19%
10-19	69.3	1564.5	-35%
20-29	81.6	1803.5	-27%
30-39	79.4	2215.7	-16%
40-49	59.3	1786.3	-22%
50-59	45.6	1306.4	-27%
60-69	28.1	863.5	-33%
70-79	15.6	754.1	3%
+08	7.4	667.5	-9%

As shown on the previous slide, the **highest** case rates last week were among those **30-39**, **followed by those 40-49 and 20-29 years**.

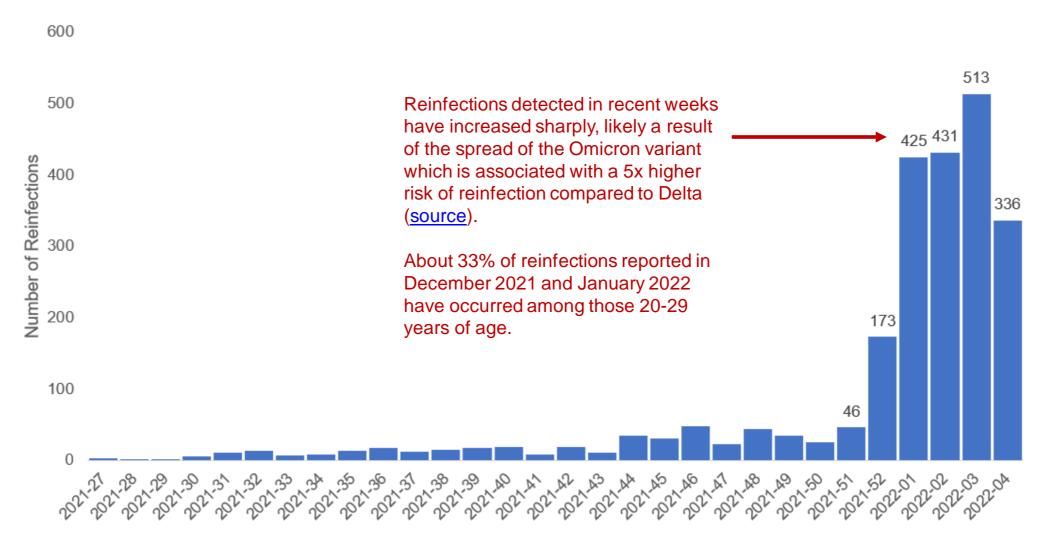
The largest week to week decreases (week 3 to week 4) were among those aged 10-19 (-35%) and 60-69 (-33%) years.

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.

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

Data as February 2, 2022

Ottawa County – Reinfections by Week



Notes: *For the purposes of this slide a reinfection is considered any Ottawa County resident who was reported two or more times as a confirmed or probable case, with at least 90 days between each referral date. This definition utilizes only cases reported to public health. The gold-standard for determining reinfection includes the variant detected in each infection; comprehensive data on the variant detected are not available for most cases.

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

Data as of February 2, 2022

Variants

Media

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
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	685	-10%	163	-18%	848	-11%
30-Oct-21	716	5%	219	34%	935	10%
6-Nov-21	991	38%	351	60%	1342	44%
13-Nov-21	1463	48%	487	39%	1950	45%
20-Nov-21	1662	14%	568	17%	2230	14%
27-Nov-21	1229	-26%	341	-40%	1570	-30%
4-Dec-21	1771	44%	450	32%	2221	41%
11-Dec-21	1236	-30%	302	-33%	1538	-31%
18-Dec-21	940	-24%	214	-29%	1154	-25%
25-Dec-21	766	-19%	149	-30%	915	-21%
1-Jan-22	1522	99%	214	44%	1736	90%
8-Jan-22	2790	83%	443	107%	3233	86%
15-Jan-22	3084	11%	636	44%	3720	15%
22-Jan-22	3147	2%	924	45%	4071	9%
29-Jan-22	2398	(-24%)	673	-27%	3071	-25%

Weekly case counts among children decreased 27% last week, and cases in adults decreased 24%.

Adults

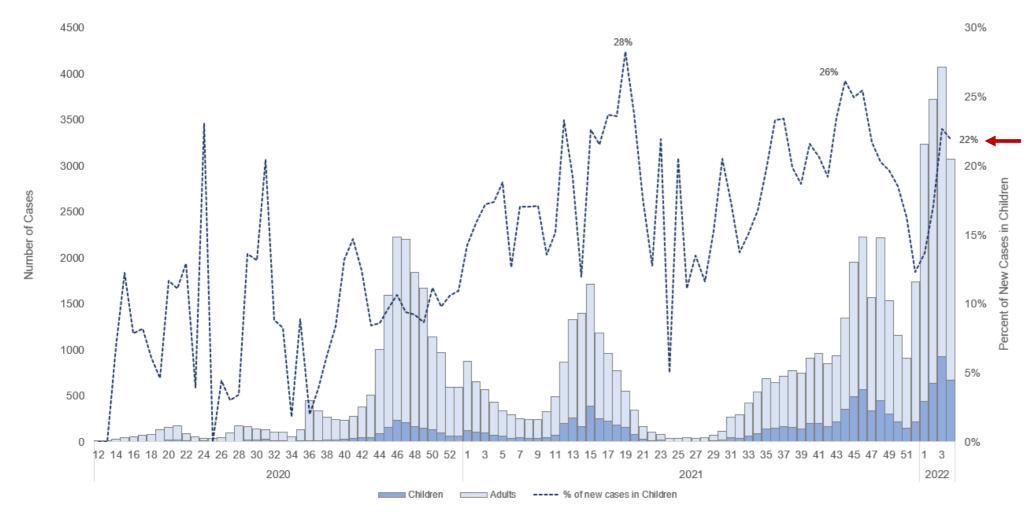
Children

Variants

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

Science Roundup

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



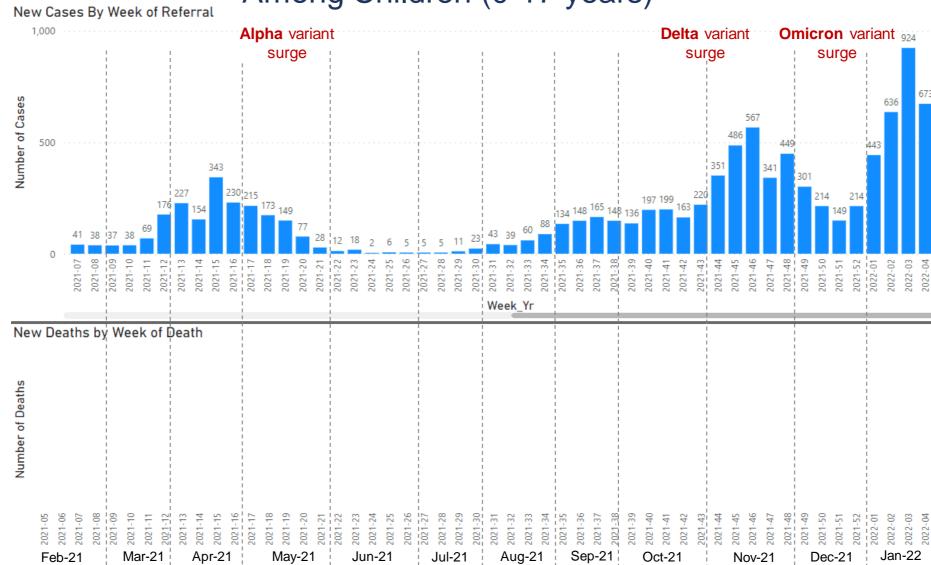
During week 4 in 2022, children made up **22%** of cases reported, elevated compared to previous weeks.

For comparison, children aged 0-17 make up about 23.5% of the population in Ottawa County.

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

Data through Week 4, 2022

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



Variants

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

The weekly number of cases among children decreased 27% from week 3 to week 4.

Other

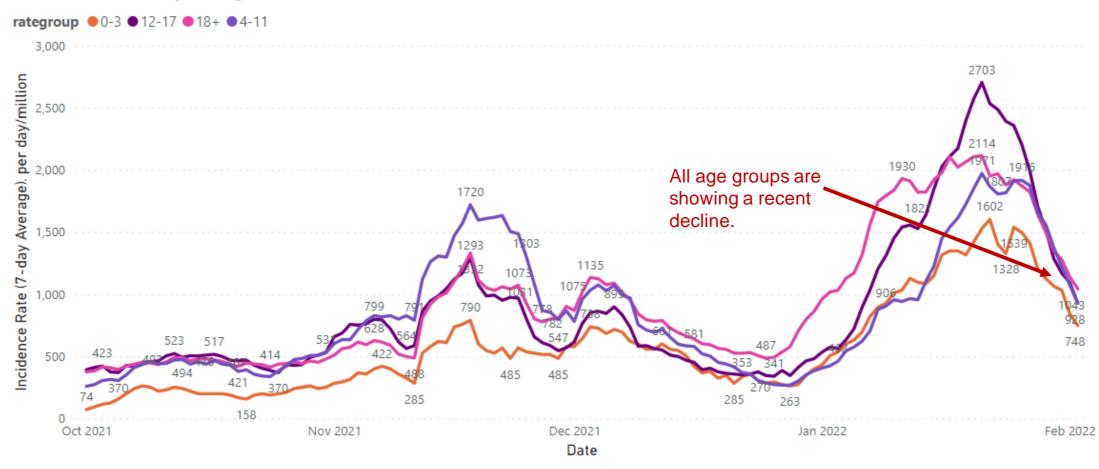
USA & MI

Due to reduced quality, hospitalization data has been removed from this visualization.

Ottawa County - Case Rate Trends - by Age

COVID-19 Case Rates by Age, includes School-Aged, October 2021 – February 2, 2022

Incidence Rate (7-day Average)



Erratum: In early February 2022, a data issue was identified and resolved that resulted in an increase in the case rate for children 0-3 years of age, and a slight decrease for children 4-11 years of age. Source: Michigan Department of Health and Human Services, Michigan Disease Surveillance System

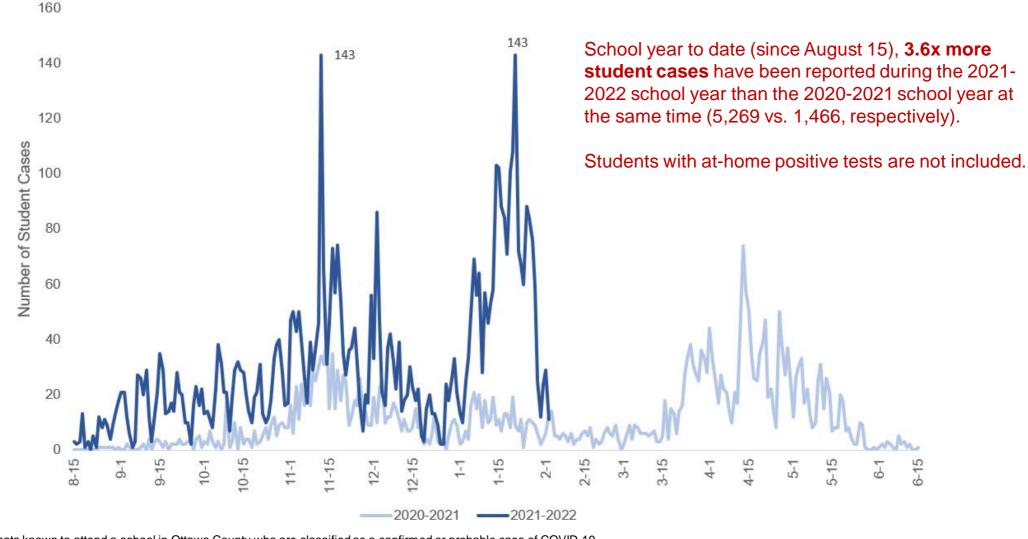
> Science Roundup

Hospitalizations

Variants

Media

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.

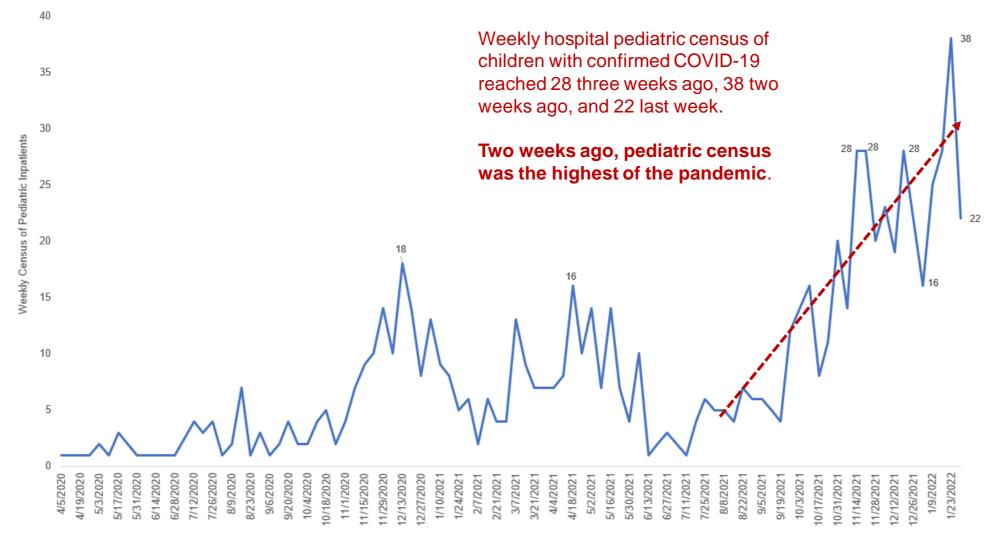
Note: Data may change as information is updated and methods are refined. Cases reported in 2022 will likely increase. The peak of 143 cases reported on November 12, 2021 is the result of a database update by MDHHS that reported a backlog of cases from the previous days.

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

Children

Data through February 2, 2022

Weekly Hospital Pediatric Census – A Regional Healthcare System



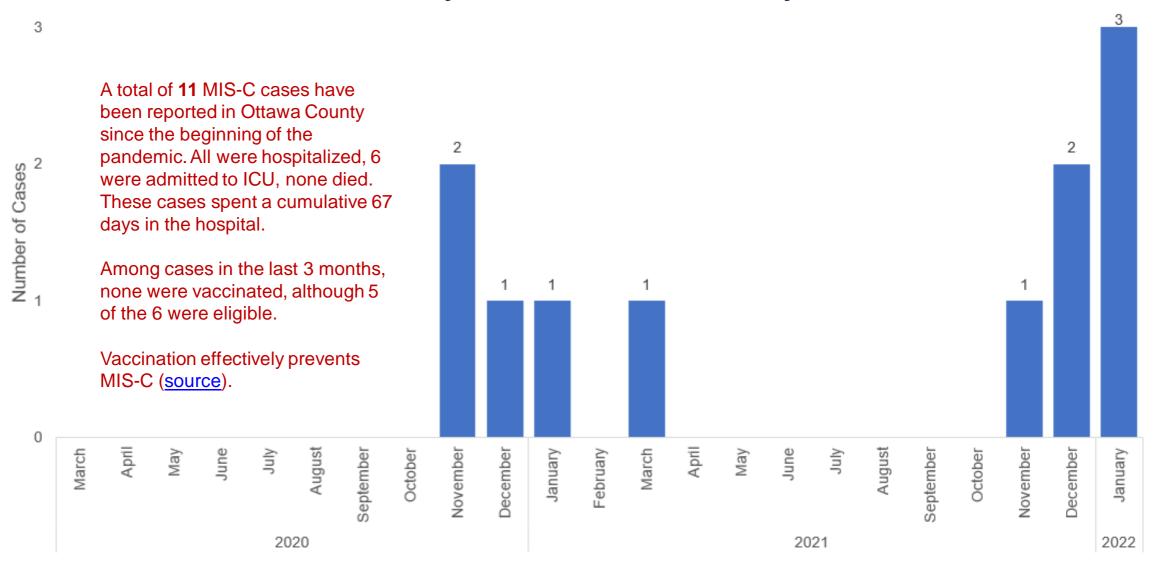
Week Ending Date

Variants

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 January 30, 2022

Ottawa County MIS-C* Cases by Month

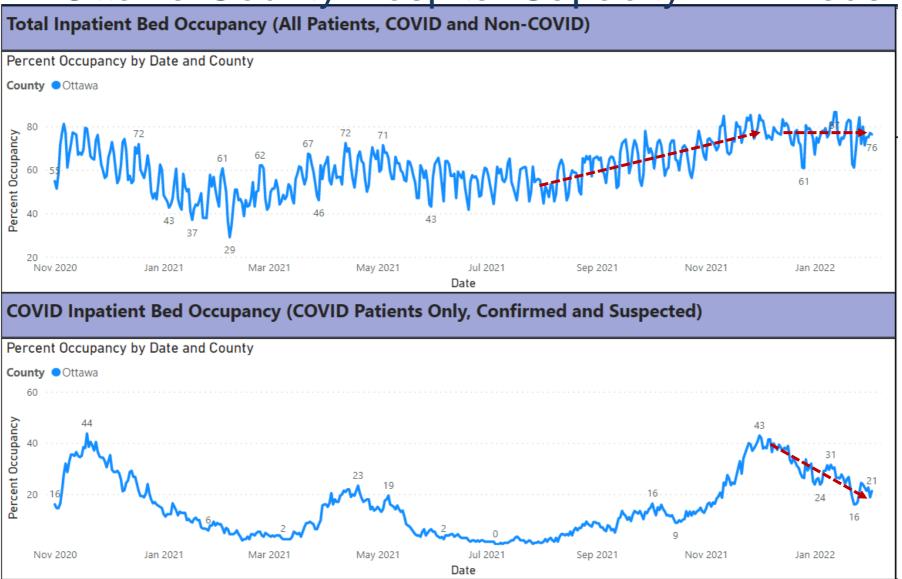


Notes: Includes confirmed and probable cases.

*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

Data through January 31, 2022

Ottawa County Hospital Capacity - All Beds



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

Currently 21% of all inpatient beds are occupied by COVID-19 patients. A downtrend in the proportion of beds occupied by COVID-19 patients is manifesting.

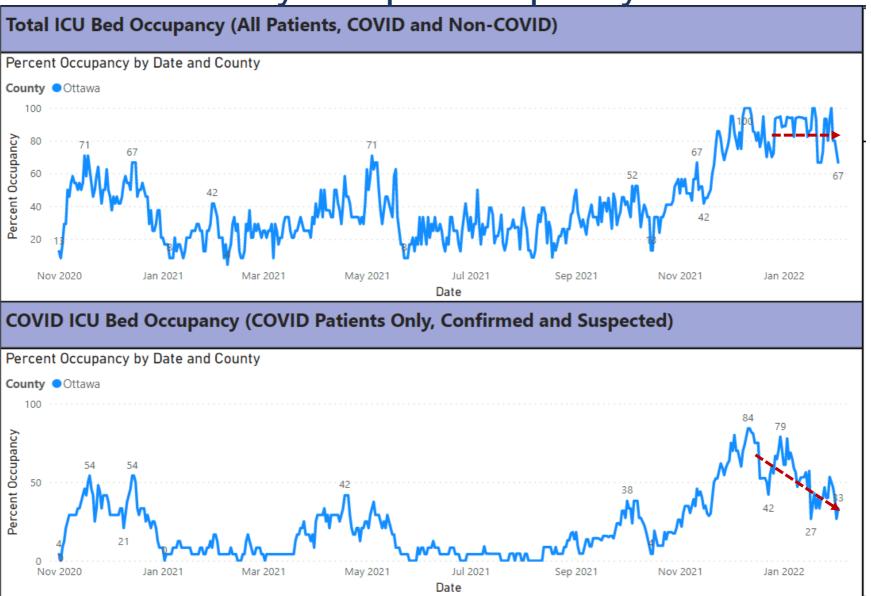
Source: EMResources

Data through February 2, 2022

Variants

Spread

Ottawa County Hospital Capacity - ICU Beds



Overall ICU bed occupancy remains elevated (67%).

The proportion of ICU beds occupied by COVID-19 patients also **remains elevated**. Currently, **33%** of all ICU beds are occupied by COVID-19 patients, but there are signs of a sustained downtrend.

Data through February 2, 2022

Source: EMResources

Spread

Spectrum Health Hospitalized COVID-19 Patients

Spectrum Health COVID-19 Hospitalizations

Spectrum Health

February 1, 2022

Spectrum Health currently has 321 hospitalized COVID-19 patients. Of these, 231 (72%) are unvaccinated and 90 are vaccinated*.

*Vaccinated patients are, on average, 10 years older (69 vs 59) and have an average of 4 co-morbidities compared to 3 for unvaccinated patients.



Of those 321 patients, 70 are currently in the ICU. Of these, 54 (77%) are unvaccinated 16 are vaccinated.



Of those 70 ICU patients, 49 are on ventilators. Of these, 39 (80%) are unvaccinated and 10 are vaccinated.

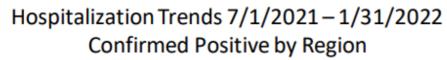


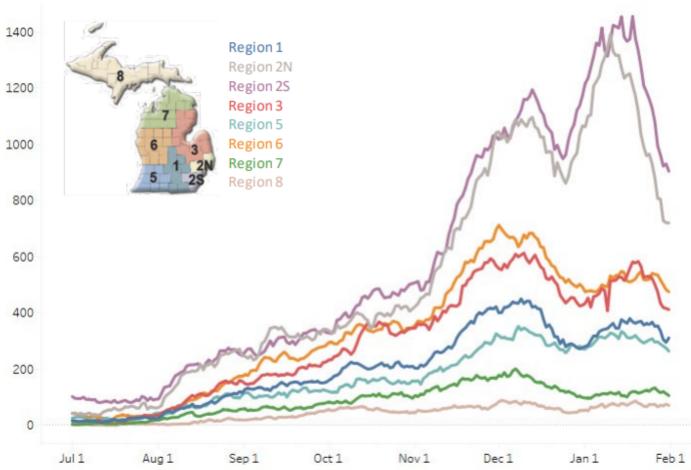
Data includes pediatric and adult COVID-19 positive inpatients across all Spectrum Health Hospitals. *Vaccinated = 2 weeks after receipt of the second dose in a 2-dose series, such as the Pfizer or Moderna vaccines, or a single-dose vaccine, such as Johnson & Johnson's Janssen vaccine

Source:: https://www.facebook.com/spectrumhealth/photos/a.126445034231/10159009403754232/

Science Roundup

Statewide Hospitalization Trends: Regional COVID+ Census





This week the COVID+ hospital census has declined in all regions.

Region 2S remains the most impacted region in the state on a population basis with greater than 400/Million population hospitalized who are COVID+.

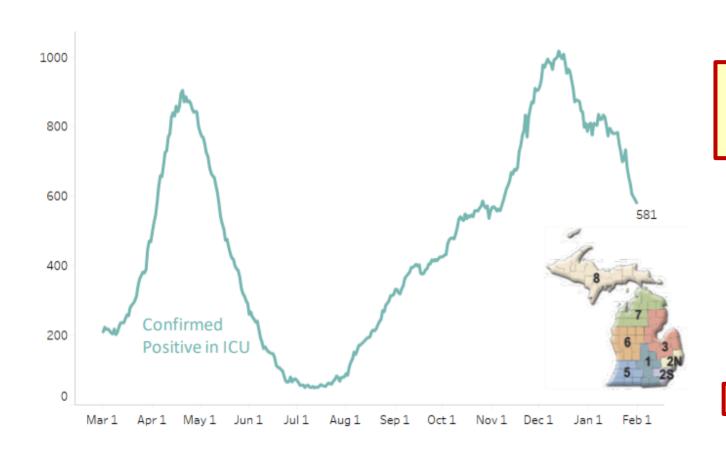
Region	COVID+ Hospitalizations (% Δ from last week)	COVID+ Hospitalizations / MM
Region 1	311 (-13%)	288/M
Region 2N	720 (-25%)	325/M
Region 2S	904 (-22%)	406/M
Region 3	412 (-22%)	363/M
Region 5	264 (-13%)	277/M
Region 6	475 (-9%)	324/M
Region 7	106 (-12%)	212/M
Region 8	71 (-4%)	228/M

Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20220201 Data and modeling update vDRAFT 747172 7.pdf

Spread

Statewide Hospitalization Trends: ICU COVID+ Census

Hospitalization Trends 3/1/2021 – 1/31/2022 Confirmed Positive in ICUs



The census of COVID+ patients in ICUs has decreased by 21% from last week (previous week was down by 6%). While most regions show decreasing trends, the ICU census in Region 8 has increased by 50% from last week.

Regions 2S, 3 and 7 have >85% ICU occupancy. Regions 6 and 8 have >30% of Adult ICU Beds occupied with COVID+ patients.

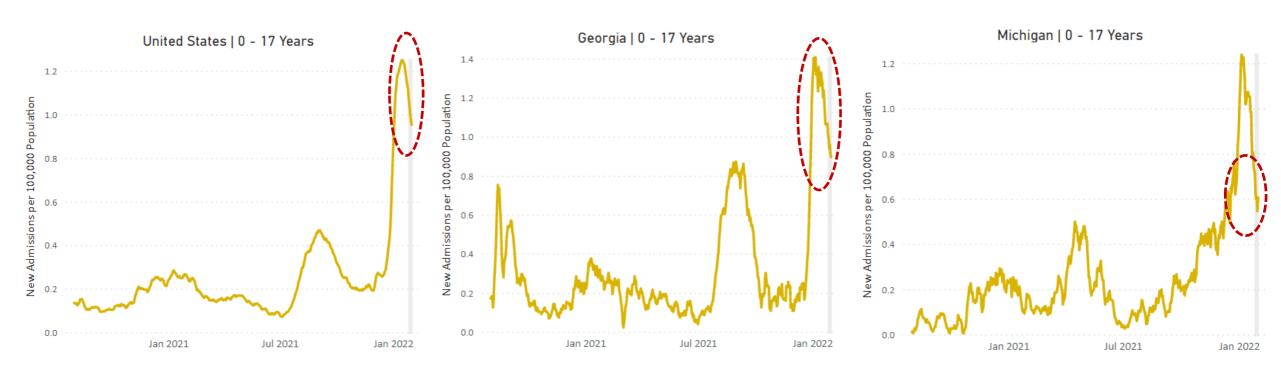
Region	Adult COVID+ in ICU (% Δ from last week)	ICU Occupancy	% of ICU beds COVID+	
Region 1	41 (-41%)	81%	21%	
Region 2N	119 (-20%)	77%	21%	
Region 2S	149 (-32%)	86%	22%	
Region 3	92 (-5%)	87%	28%	
Region 5	39 (-9%)	69%	22%	
Region 6	90 (-13%)	83%	33%	
Region 7	27 (-25%)	85%	20%	
Region 8	24 (50%)	71%	38%	

Source: MDHHS Data and Modelling: https://www.michigan.gov/documents/coronavirus/20220201_Data_and_modeling_update_vDRAFT_747172_7.pdf

Variants

Spread

Pediatric Hospitalization Rates – USA, Georgia, Michigan



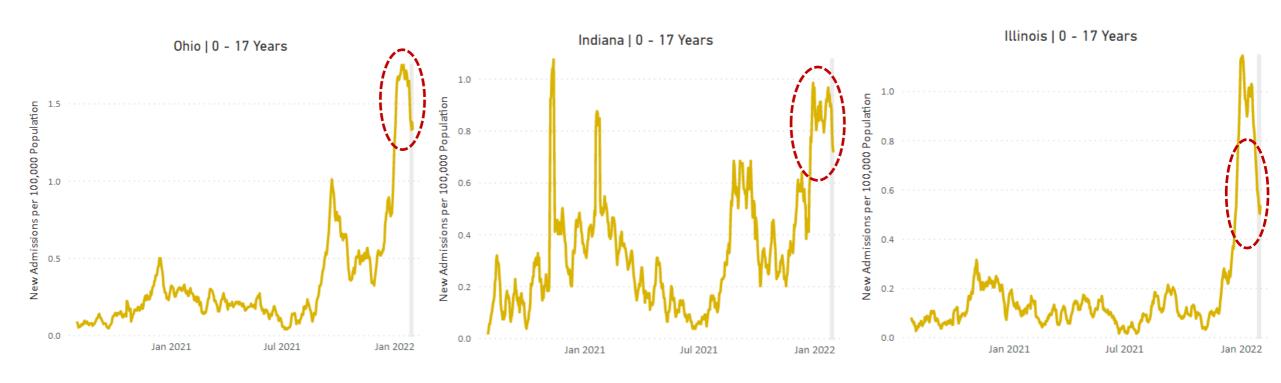
Pediatric hospitalization rates across the US, in Georgia, and in Michigan remain elevated but are be showing signs of improvement.

Variants

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

Accessed February 2, 2022

Pediatric Hospitalization Rates – Select Midwest States

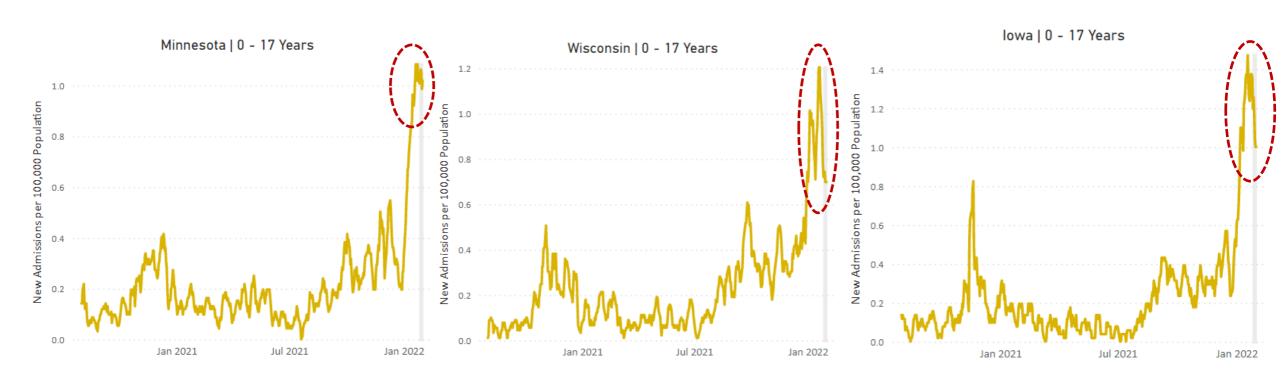


Ohio, Indiana, and Illinois are all experiencing substantially elevated pediatric hospitalization rates, but are showing signs of improvement.

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

Accessed February 2, 2022

Pediatric Hospitalization Rates – Select Midwest States



Pediatric hospitalization rates in Minnesota have reached the highest levels of the pandemic while Wisconsin and Iowa remain elevated but are showing declines.

Vaccinations

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

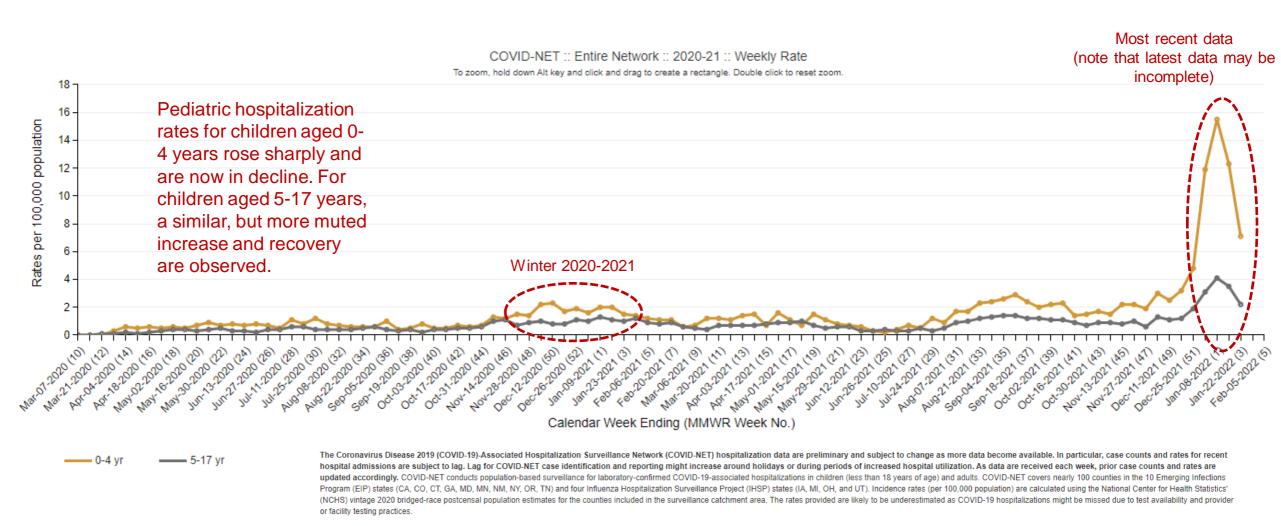
Accessed February 2, 2022

Science

Roundup

Risk Levels

Pediatric Hospitalization Rates by Age Group – USA

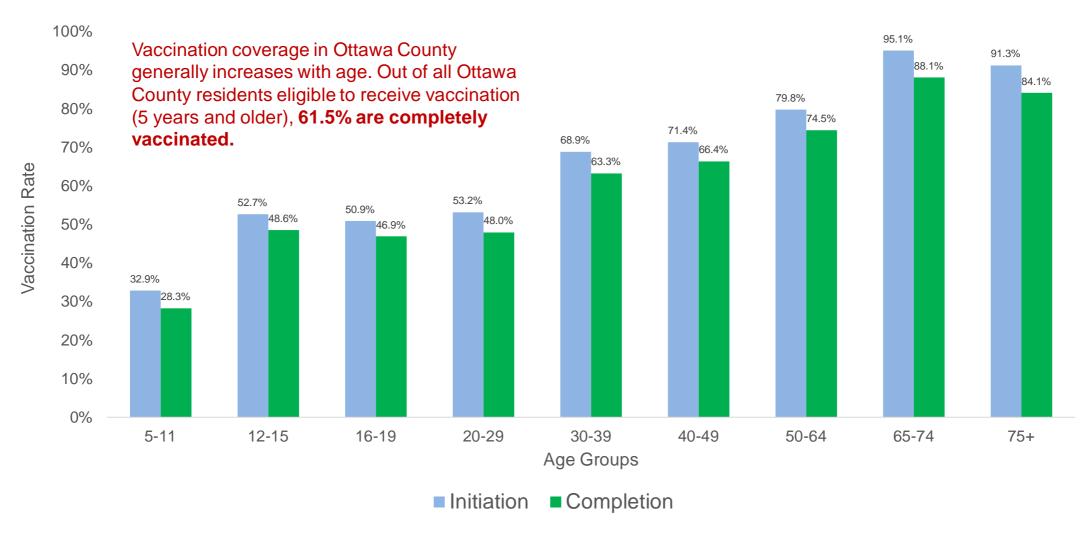


Starting MMWR week 48, MD data are temporarily removed from weekly rate calculations.

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

Accessed February 2, 2022

Vaccination Coverage by Age



Note:

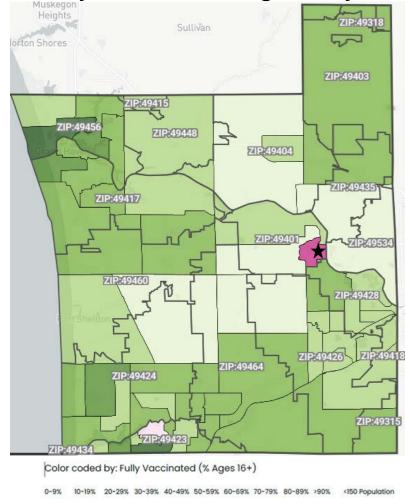
Completion is the percentage of people receiving 2 doses of Pfizer or Moderna or 1 dose of J&J.

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

Data through February 1, 2022

Vaccination Coverage by Place of Residence

Fully vaccinated: % Ages 16+ years

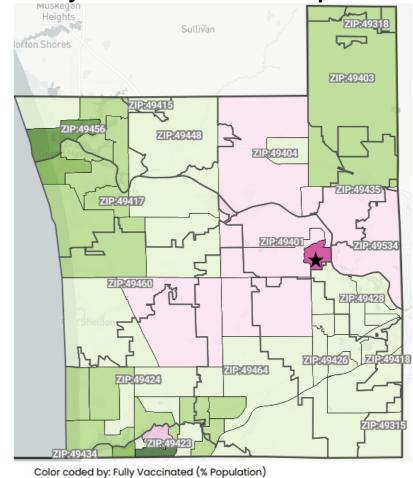


Vaccination rates vary across Ottawa County, but most areas have at least 50% of the population aged 16+ completely vaccinated (left).

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



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



Source: MI-Lighthouse Internal Dashboard

Data as of February 1, 2022

Cumulative Cases by Vaccination Status, Ottawa County, January 15, 2021 – January 29, 2022

Fully Vaccinated People (167,881)

Percent of Cases in People Percent of Deaths in People Not Fully Vaccinated Not Fully Vaccinated (35,439 / 50,665)(256 / 383)69.9% 66.8% Total Cases Not Fully Vaccinated Total Deaths Not Fully Vaccinated 35,439 256 Total Breakthrough Cases Total Breakthrough Deaths 15,226 127 Percent of Fully Vaccinated People who Percent of Fully Vaccinated People who **Developed COVID-19** Died of COVID-19 (15,226 / 167,881) (127 / 167,881)9.7% 0.076% Percent of Cases who were Percent of Deaths who were Fully Vaccinated Fully Vaccinated (15.226 / 50.665)(127 / 383)

Variants

Due to reduced quality, hospitalization data has been removed from this visualization.

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

30.1%

Total Cases

50.665

Cases

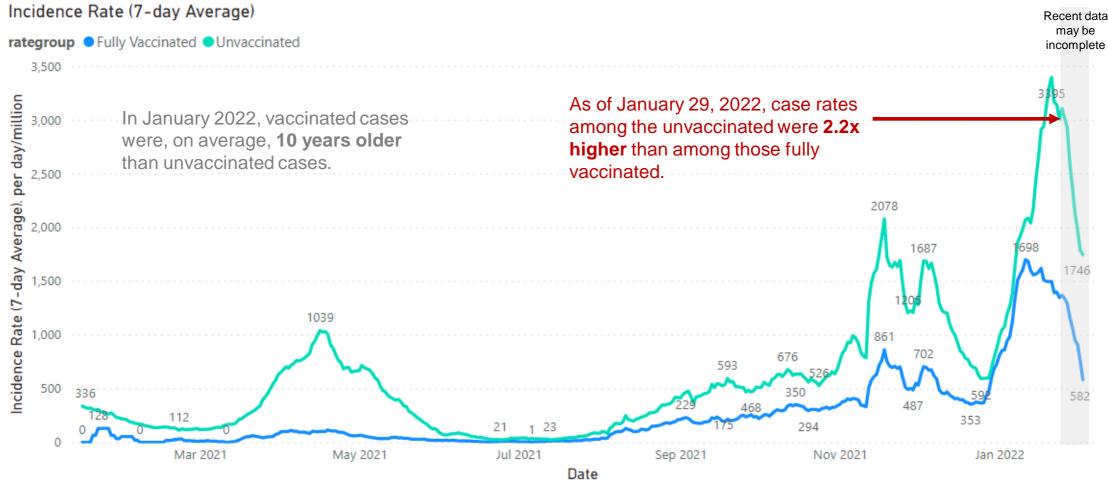
33.2%

Total Deaths

383

Deaths

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. 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.

Variants

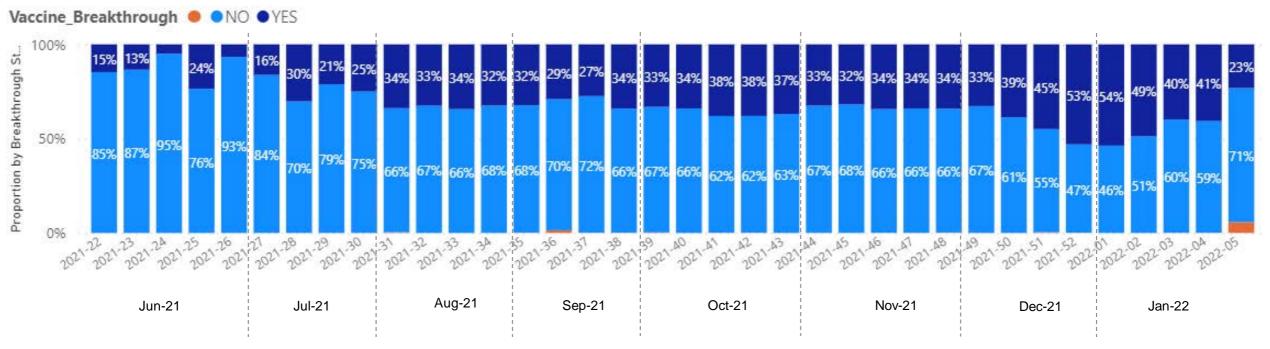
Sources:

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

Ottawa County COVID-19 Vaccination Breakthrough Case Trends By Week

Breakthrough Proportions by Week



Through the Delta wave, which was most pronounced August through early December of 2021, about 34% of all cases reported to public heath were breakthrough cases. At the end of 2021 and into 2022, the proportion of vaccine breakthrough cases increased to roughly 43% of cases reported each week. Weekly breakthrough rates observed in Ottawa County are similar to other geographies reporting this same data.

Variants

Source:

USA & MI

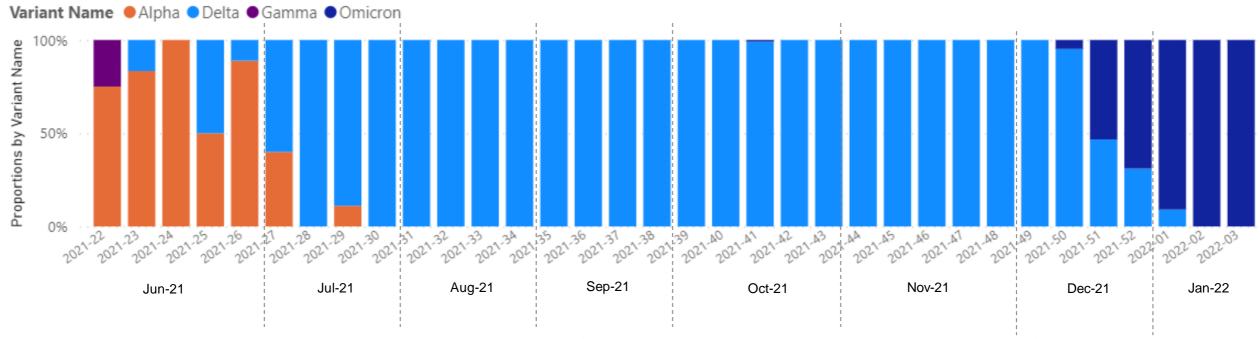
Michigan Department of Health and Human Services, Michigan Disease Surveillance System

Spread

Science Roundup

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. From late July through early December 2021 all clinical samples submitted for variant testing came back positive for the **Delta** variant. In mid-December 2021, the first **Omicron** positive samples were collected in an Ottawa County resident, and **Omicron** continues to be detected into 2022 (along with **Delta** in wastewater).

Variants

Science Roundup

^{*} 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 is estimated to account for as much as 99.9% of clinical samples collected in the United States as of January 29, 2022.

Collection date, week ending

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

Accessed February 2, 2022

Science

Roundup

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*

Variants

Ottawa is in the High category right now

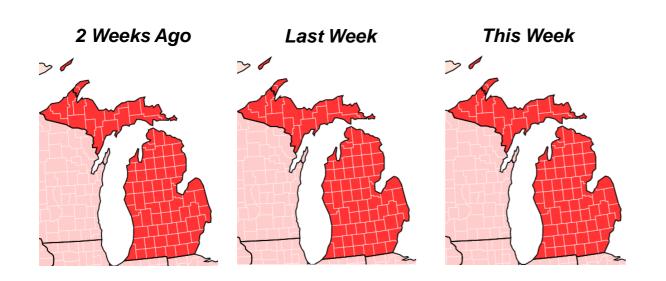
Source: https://covid.cdc.gov/covid-data-tracker/#county-view

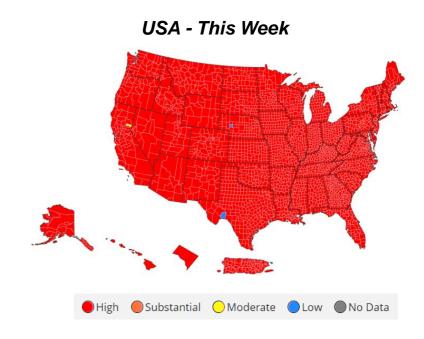
Science Roundup

USA & MI

CDC Community Transmission Risk Levels – Ottawa County

- Current Risk Level in Ottawa HIGH (for last 24+ weeks)
- Current Data:
 - Positivity = 31.28%
 - Case Rate = 884.42 cases per week per 100,000





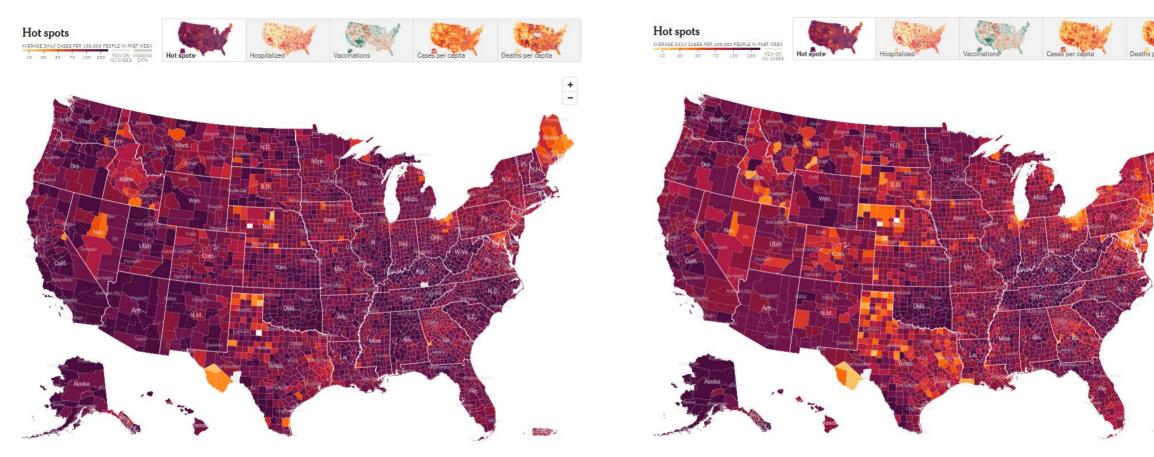
Data through February 1, 2022 for case rates and through January 30, 2022 for positivity.

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

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

COVID-19 Case Rates by County Across the US

This Week Last Week

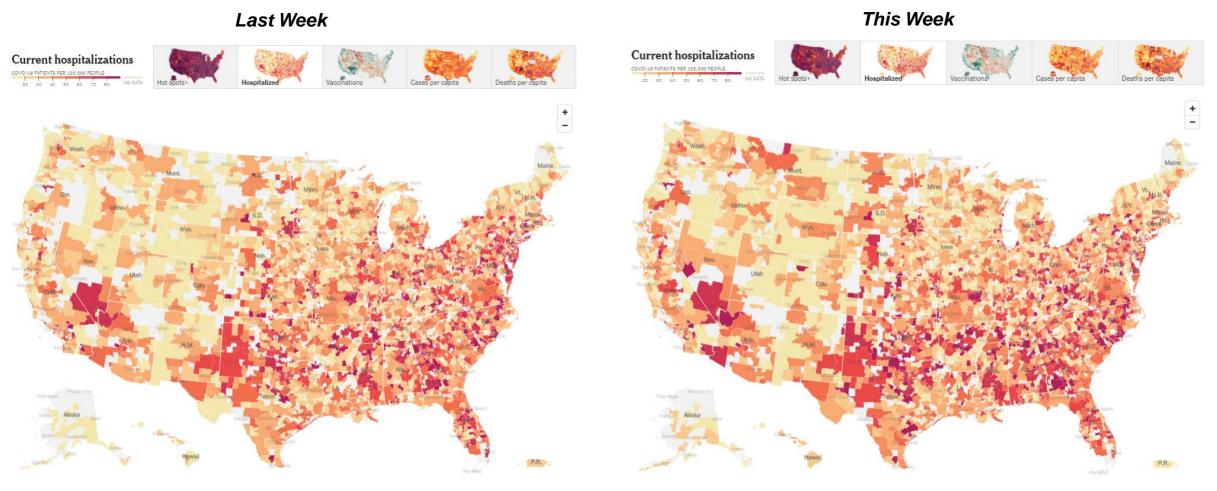


Case rates remain elevated across the nation, but declines are noted in some western states and the northeast.

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

Accessed February 2, 2022

COVID-19 Hospitalization Rates by County Across the US



Hospitalization rates remain elevated across the nation.

Source: https://www.nytimes.com/interactive/2021/us/covid-cases.html Accessed February 2, 2022

States and Michigan Counties with School Masking Requirements

States/Districts (16): California, Connecticut, Delaware, Hawaii, Illinois, Maryland, Massachusetts, New México, New Jersey, New York, Nevada, Oregon, Rhode Island, Virginia, Washington, & Washington D.C.

Michigan Counties (11):

- PreK/K-6: Marquette
- **K-12:** Antrim, Benzie, Charlevoix, Emmet, Ingham, Leelanau, Oakland, Otsego, Washtenaw, and Wayne

Rescinded County Mask Mandates (10):

- Allegan, Barry, Berrien, Eaton, Iron, Dickinson (rescinded October 2021)
- Kalamazoo, Genesee (rescinded December of 2021)
- Ottawa, Kent (rescinded January of 2022)

Ottawa County School Districts Retaining Mask Rules (4):

Holland Public, Black River, Grand Haven Public, & Spring Lake Public

Vaccinations

Note: Lists may not be comprehensive.

Source for State/Districts: https://www.nytimes.com/interactive/2021/us/cdc-mask-guidance-states.html

Science Roundup

Other

Risk Levels

COVID-19 News Headlines

Michigan is distributing 10 million free KN95 masks

https://www.hollandsentinel.com/story/news/coronavirus/2022/01/29/ michigan-distributing-10-million-free-kn-95-masks/9252571002/

Seven-day average of new COVID-19 cases in Michigan decreases for third consecutive update

https://www.mlive.com/public-interest/2022/01/seven-day-average-of-newcovid-19-cases-in-michigan-decreases-for-third-consecutive-update.html

Free at-home COVID-19 PCR tests now available at Meijer pharmacies

https://www.wzzm13.com/article/news/health/coronavirus/meijer-free-athome-pcr-covid-19-tests/69-949587b4-ce95-401f-b85e-fcb795533658

Coronavirus (COVID-19) Update: FDA Takes Key **Action by Approving Second COVID-19 Vaccine**

https://www.fda.gov/news-events/press-announcements/coronaviruscovid-19-update-fda-takes-key-action-approving-second-covid-19vaccine

U.S. considers authorization of first COVID vaccine for children under 5

https://www.reuters.com/business/healthcare-pharmaceuticals/pfizersubmits-data-seeking-us-approval-covid-vaccine-young-kids-bloomberg-2022-02-01/

Gov. Whitmer Announces 250,000 Free COVID-19 Tests for Michiganders

https://www.michigan.gov/mdhhs/0,5885,7-339-73970 71692-576641--,00.html

> Science Roundup

Science Roundup

Indirect protection of children from SARS-CoV-2 infection through parental vaccination

https://www.science.org/doi/10.1126/science.abm3087

A study out of Israel found that vaccinated parents in a household with unvaccinated children provided a protective effect to the children, reducing their risk of infection by 58.1% during a Delta wave (when both parents were vaccinated).

Factors associated with SARS-COV-2 attack rates in aged care— a meta-analysis 3

https://academic.oup.com/ofid/advance-article/doi/10.1093/ofid/ofac033/6516558?login=false

A meta-analysis of COVID-19 attack rates in aged care facilities found that facilities with standalone buildings with inadequate space for social distancing had higher COVID-19 attack rates.

COVID-19 vaccine surveillance report

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1050721/Vaccine-surveillance-report-week-4.pdf

A surveillance report from the United Kingdom
Health Security Agency found that a booster vaccination was 95% effective at preventing hospitalization.

SARS-CoV-2 Infection and Hospitalization Among Adults Aged ≥18 Years, by Vaccination Status, Before and During SARS-CoV-2 B.1.1.529 (Omicron) Variant Predominance — Los Angeles County, California, November 7, 2021–January 8, 2022

https://www.cdc.gov/mmwr/volumes/71/wr/mm7105e1.htm?s cid=mm7105e1 w

A CDC-published report showed that among hospitalized adults, fully vaccinated and boosted populations had much lower hospitalization rates, further demonstrating the prevention value of COVID-19 vaccination and boosters.

Media

Science Roundup