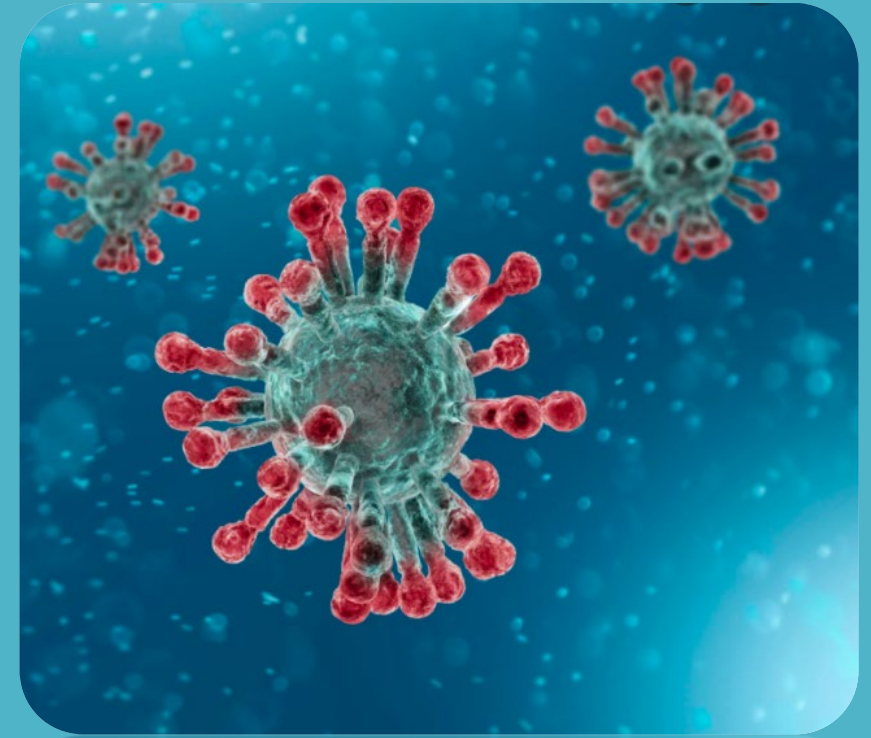




HEALTH
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ACHD COVID-19 School Update

2021-2022 School Year
December 7, 2021 Update





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About this Report

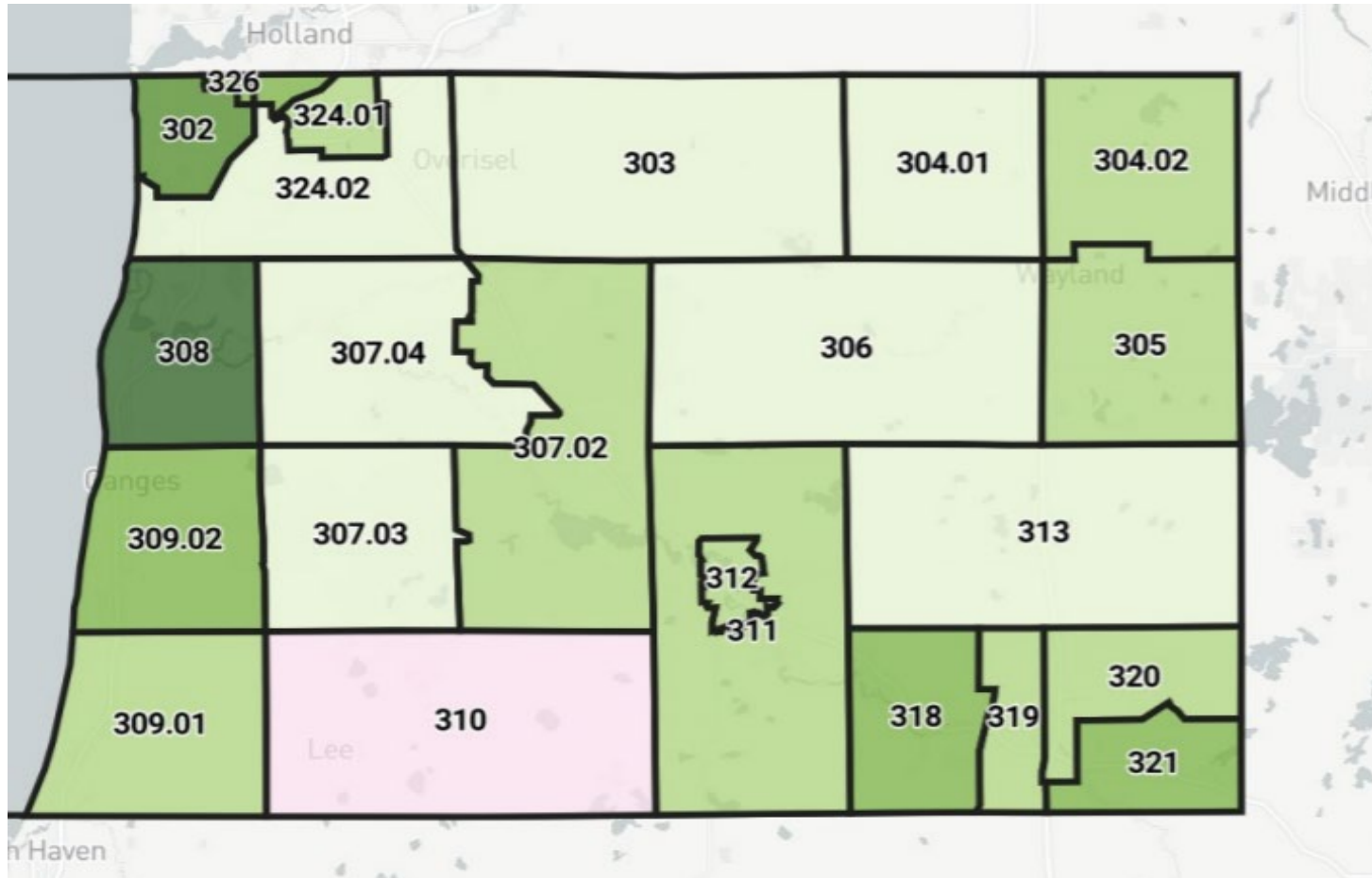
This report is compiled on a bi-weekly basis, and publication will be on the 2nd and 4th Tuesday of each month.

This report will be published under the “Schools” resource section on www.allegancounty.org/covid

This report was created for school leaders, Board of Education members, parents and communities.

If you have suggestions for improvement, please complete an [inquiry form](#)

Allegan County Vaccination Coverage Trends (% Age 16+), As of December 03, 2021

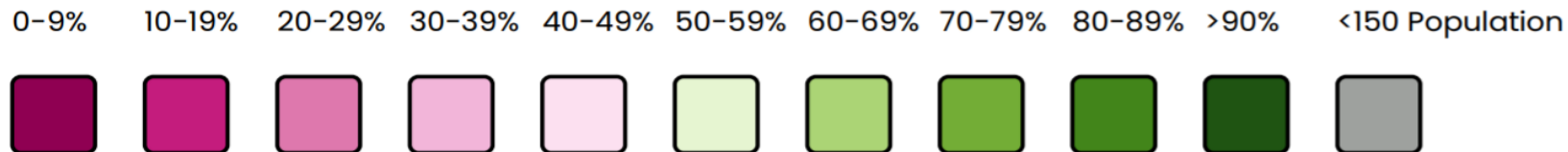


Allegan County Percentage Fully Vaccinated All Ages: 49.6% (57,190/115,250)

Percent Breakthrough, All Ages: 2.45% (1,389/56,758)

- Percent Breakthrough All Ages Data as of 11/30/21
- Breakthrough case: a confirmed COVID-19 case in a fully-vaccinated individual

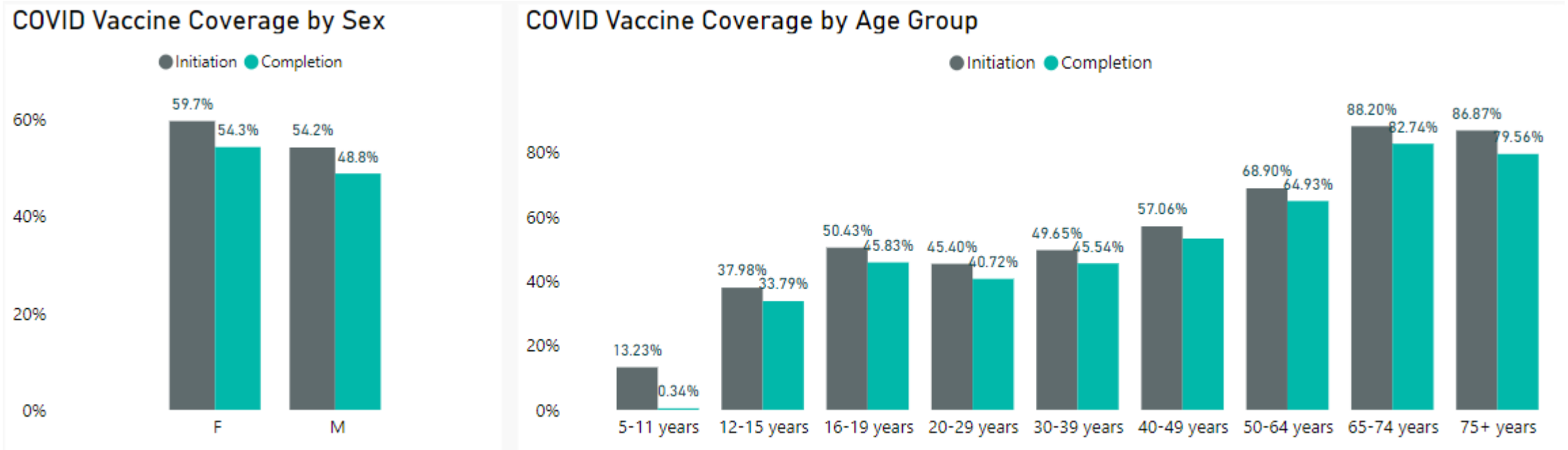
Color coded by: Received 1 or More Dose (% Ages 16+)



MI Lighthouse Report: Region Map

Source: Michigan Disease Surveillance System; MI Lighthouse Report

Allegan County Vaccination by Gender and Age Group, As of December 03, 2021



Age 5-11
 Initiated: 1,460: 13.2%
 Completed: 38: 0.3%

Age 12-15
 Initiated: 2,556: 38 %
 Completed: 2,274: 33.8%

Age 16-19
 Initiated: 2,913: 50.4%
 Completed: 2,647: 45.8%

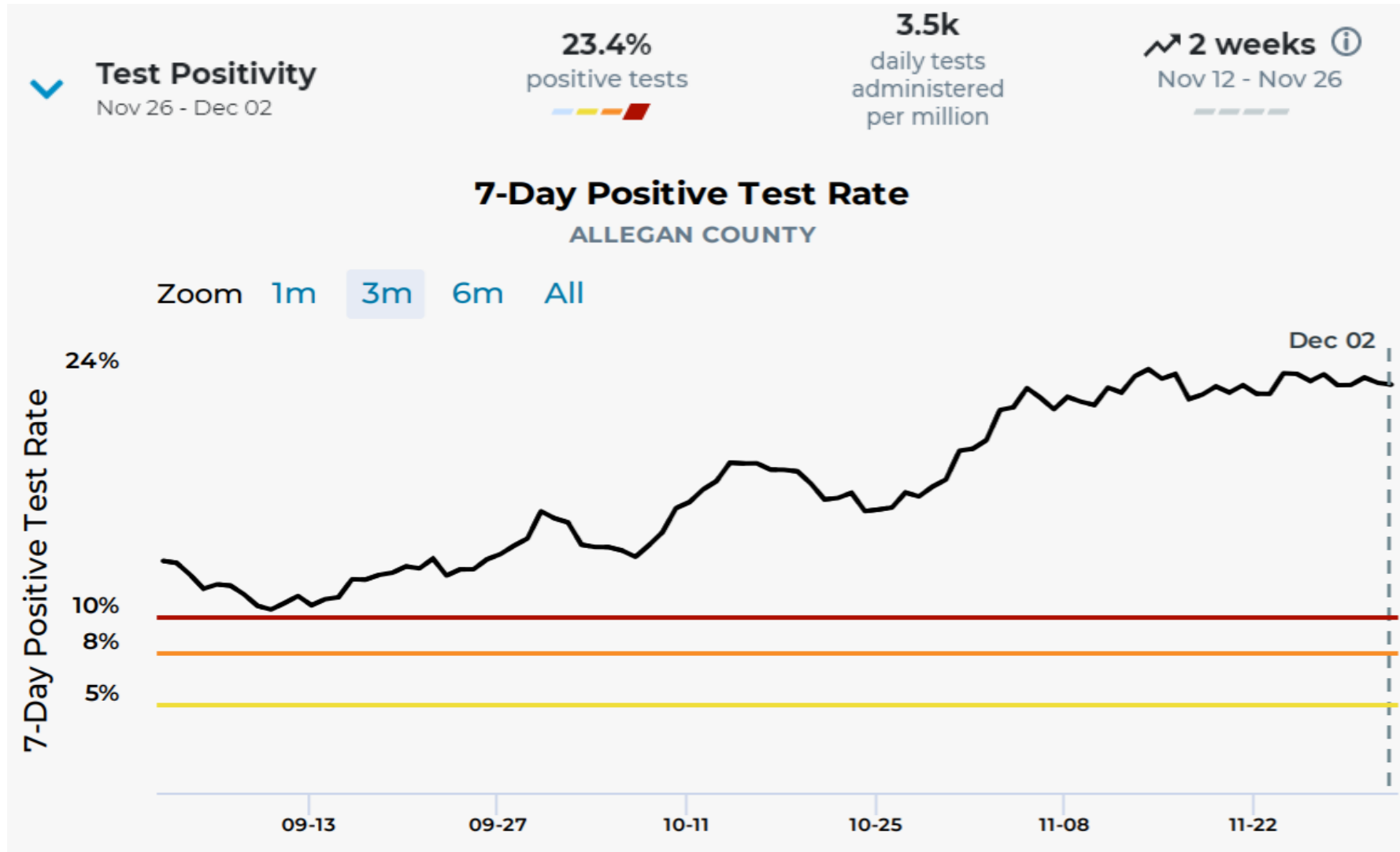
Definitions:

Initiation: Percentage who have received either 1 or more doses of ANY vaccine.

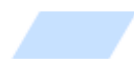
Completion: Percentage of Allegan County Residents receiving 2 doses of Pfizer or Moderna or 1 dose of J&J.

Source: Michigan Disease Surveillance System; [MI COVID-19 Vaccine Dashboard](#)

Alleghan County Testing Trends All Ages, As of December 2, 2021



Risk Thresholds (% Positive)



Low: <5%



Moderate 5-<8%

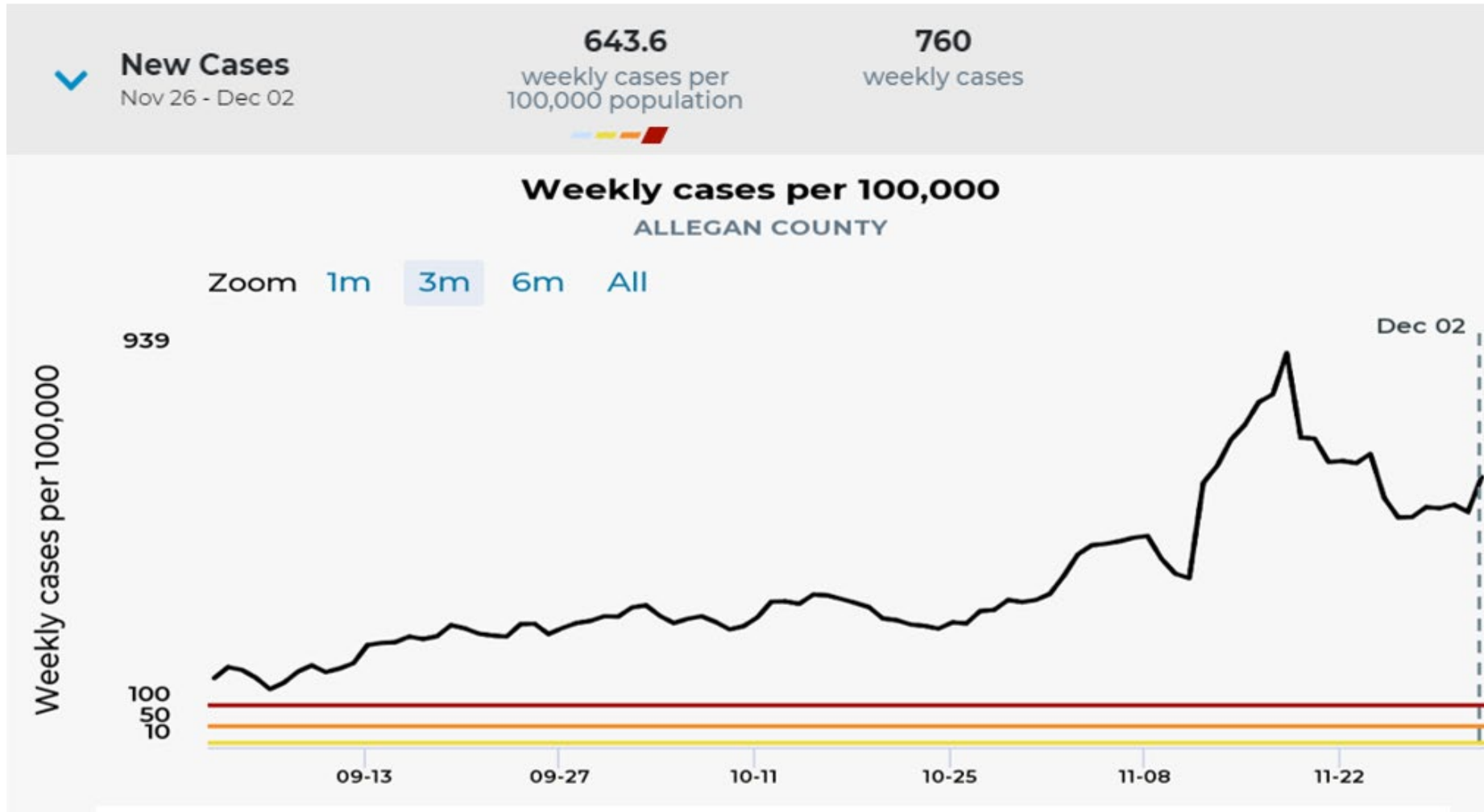


Substantial 8-<10%



High >=10%

Alleghan County Case Trends All Ages, As of December 2, 2021



Risk Thresholds (Cases per 100,000)



Low: <10



Moderate 10-49



Substantial 50-99



High \geq 100

Allegan County Case Trends School Ages 3 to 17

March 2020 through December 3, 2021

As of March 2020,
14.7% were asymptomatic cases (no symptoms but tested positive for COVID-19)

Data from 3/1//2020 to 12/3/2021

For this section to auto-calculate,
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03/01/20
mm/dd/yy

Number of Cases reported since March 2020

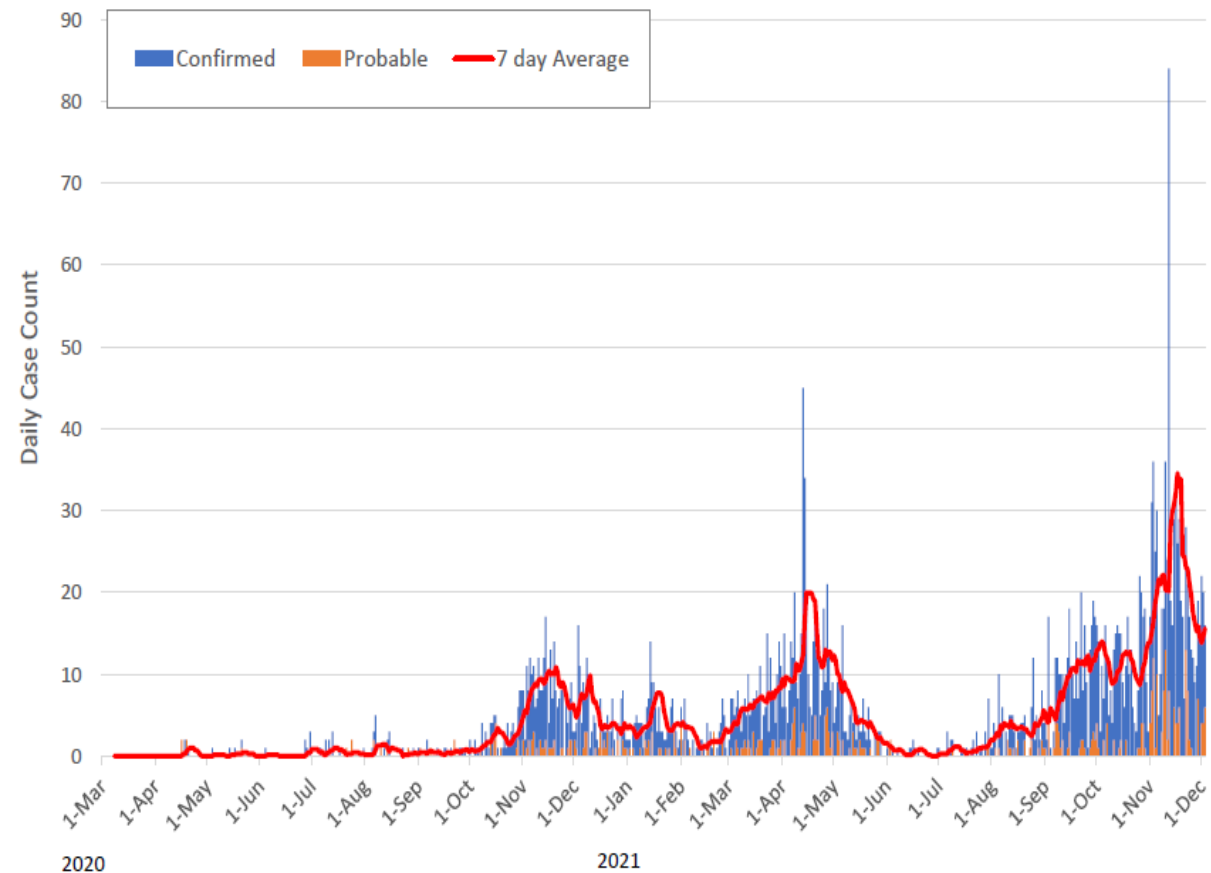
3029

	Count	% **
In quarantine at time of onset/positive test	935	30.9%
Associated with known cluster/outbreak	74	2.4%
Any contact (HC, Comm, HH) to confirmed case	1423	47.0%
Healthcare Contact to confirmed case	1	0.0%
Community Contact to confirmed case	356	11.8%
Household Contact to confirmed case	1116	36.8%
Attended Community Event/Mass Gathering	99	3.3%
Any Travel (international, domestic, in state)	161	5.3%
Source of infection is unknown	982	32.4%

** Denominator is the number of cases reported in past two weeks

Total Cases : 3,029

Allegan County COVID-19 Cases Ages 3 to 17 by Referral Date



Allegan County Breakdown of Total COVID-19 Cases
By School Age (3-17)
From March 1, 2020 to December 3, 2021

Allegan County Breakdown of COVID-19 Cases
By School Age (3-17)
Past 2 Weeks , As of December 3, 2021

Breakdown of Cases by School Age Categories

Total Case Count	3029
Number of Cases <18 years	3029
% cases <18 years	100.0%

<u>Approximate Grade Level</u>	<u>Age</u>	<u>Case Count*</u>	<u>% total cases</u>	<u>% cases <18 years</u>
	0-2 years	0	0.0%	0.0%
Pre-K age	3-4 years	189	6.2%	6.2%
K-5th grade age	5-10 years	1022	33.7%	33.7%
6-8th grade age	11-13 years	630	20.8%	20.8%
9-12th grade age	14-17 years	1188	39.2%	39.2%

**Case counts are based on case ages, which have been grouped into approximate grade levels.
These counts may not reflect the actual grade level of cases.
To prevent double-counting of cases, the age brackets do not overlap.*

Breakdown of Cases by School Age Categories

Total Case Count	228
Number of Cases <18 years	228
% cases <18 years	100.0%

<u>Approximate Grade Level</u>	<u>Age</u>	<u>Case Count*</u>	<u>% total cases</u>	<u>% cases <18 years</u>
	0-2 years	0	0.0%	0.0%
Pre-K age	3-4 years	21	9.2%	9.2%
K-5th grade age	5-10 years	107	46.9%	46.9%
6-8th grade age	11-13 years	48	21.1%	21.1%
9-12th grade age	14-17 years	52	22.8%	22.8%

**Case counts are based on case ages, which have been grouped into approximate grade levels.
These counts may not reflect the actual grade level of cases.
To prevent double-counting of cases, the age brackets do not overlap.*

Allegan County Case Trends Elementary School Ages 5 to 10

March 2020 through December 3, 2021

As of March 2020,
 44.3% were household contact to a confirmed case
 18.2% were asymptomatic cases (no symptoms but tested positive for COVID-19)

Total Cases : 1,022

CASES REPORTED IN PAST TWO WEEKS: Data from 11/20/2021 to 12/3/2021

For this section to auto-calculate,
 enter the date you exported the data here ----->

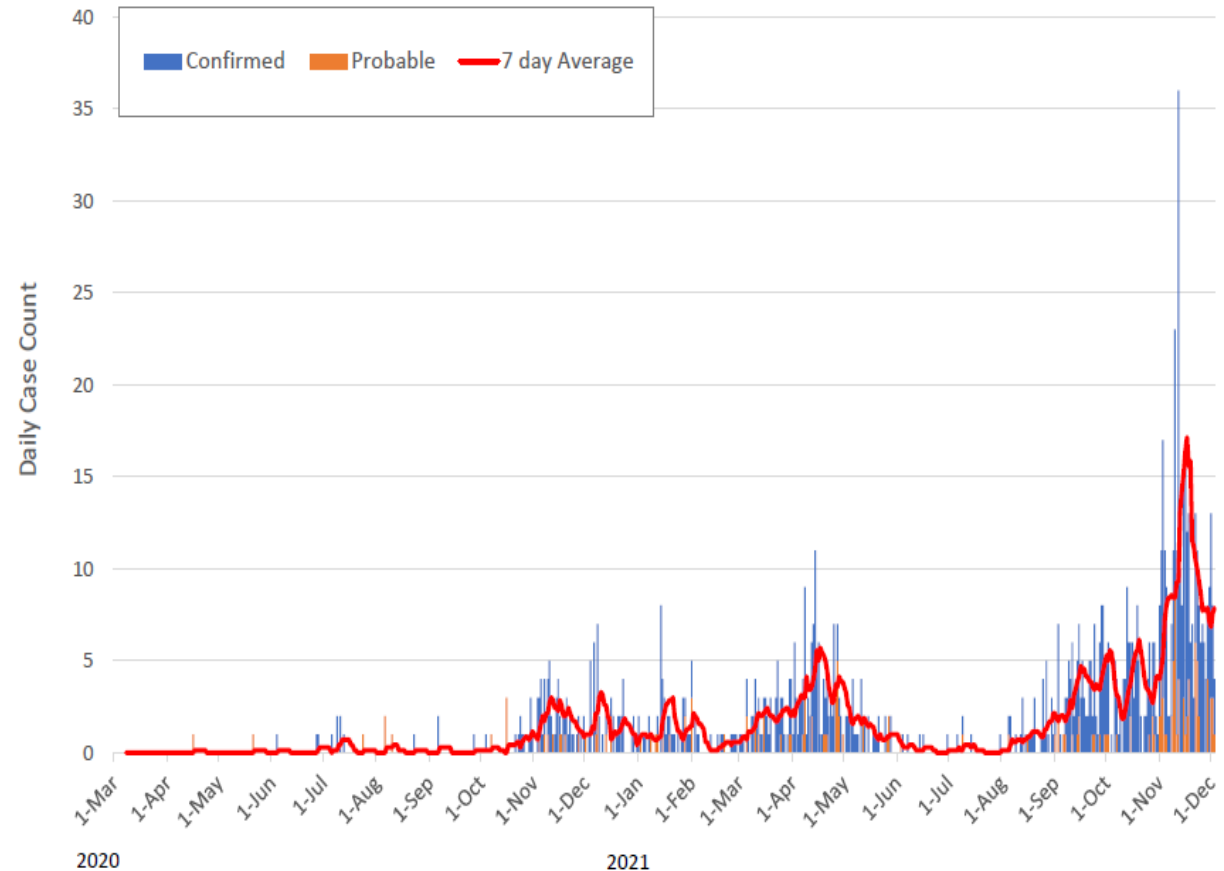
12/03/21
 mm/dd/yy

Number of Cases reported in past two weeks 107

	Count	% **
In quarantine at time of onset/positive test	31	29.0%
Associated with known cluster/outbreak	3	2.8%
Any contact (HC, Comm, HH) to confirmed case	46	43.0%
Healthcare Contact to confirmed case	0	0.0%
Community Contact to confirmed case	5	4.7%
Household Contact to confirmed case	42	39.3%
Attended Community Event/Mass Gathering	2	1.9%
Any Travel (international, domestic, in state)	3	2.8%
Source of infection is unknown	30	28.0%

** Denominator is the number of cases reported in past two weeks

Allegan County COVID-19 Cases Ages 5 to 10 by Referral Date



Allegan County Case Trends Middle School Ages 11 to 13

March 2020 through December 3, 2021

As of March 2020,
 41.1% were household contact to a confirmed case
 14.1% were asymptomatic cases (no symptoms but tested positive for COVID-19)

CASES REPORTED IN PAST TWO WEEKS: Data from 11/20/2021 to 12/3/2021

For this section to auto-calculate,

enter the date you exported the data here ----->

12/03/21
 mm/dd/yy

Number of Cases reported in past two weeks

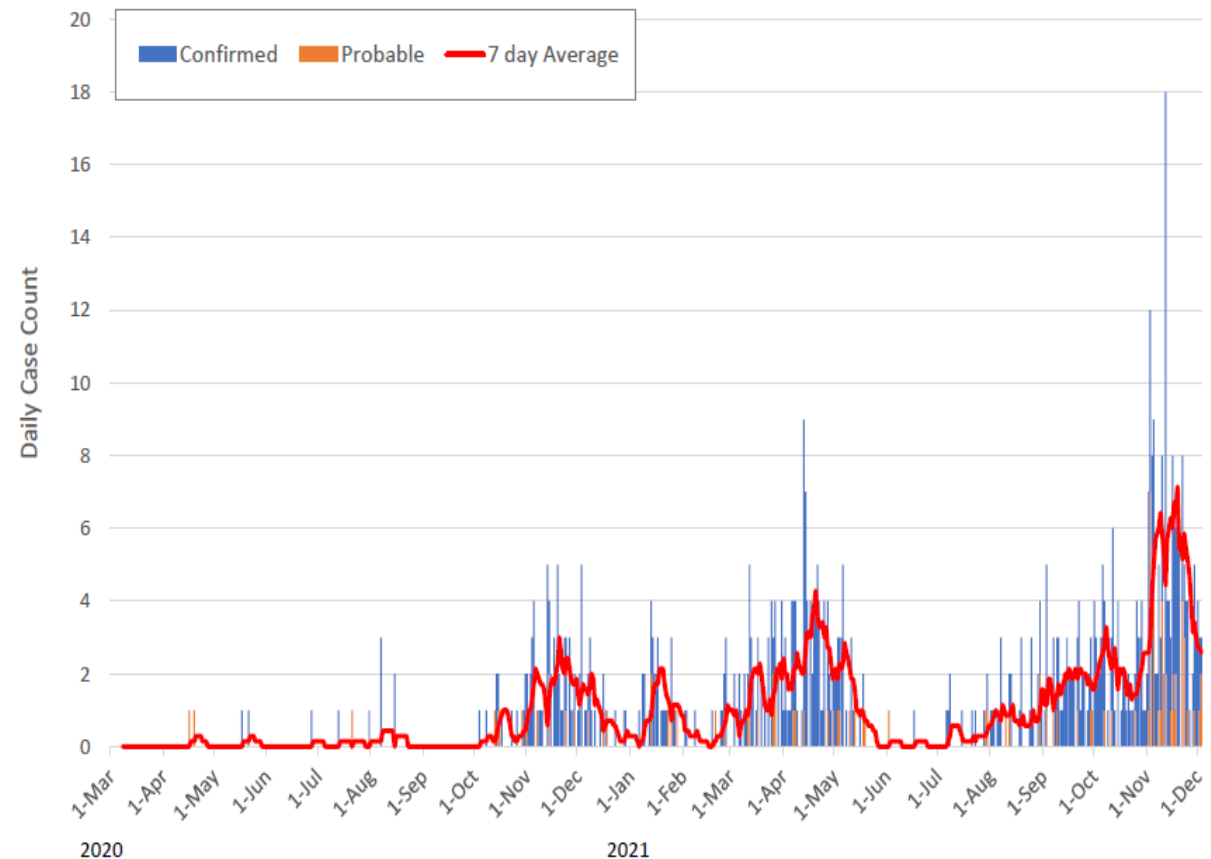
48

	Count	% **
In quarantine at time of onset/positive test	10	20.8%
Associated with known cluster/outbreak	1	2.1%
Any contact (HC, Comm, HH) to confirmed case	22	45.8%
Healthcare Contact to confirmed case	0	0.0%
Community Contact to confirmed case	4	8.3%
Household Contact to confirmed case	20	41.7%
Attended Community Event/Mass Gathering	0	0.0%
Any Travel (international, domestic, in state)	1	2.1%
Source of infection is unknown	15	31.3%

** Denominator is the number of cases reported in past two weeks

Total Cases : 630

Allegan Count COVID-19 Cases Age 11 to 13 by Referral Date



Source: Michigan Disease Surveillance System

Alleghan County Case Trends High School Ages 14 to 17

March 2020 through December 3, 2021

As of March 2020,
 25.5% were household contact to a confirmed case
 12% were asymptomatic cases (no symptoms but tested positive for COVID-19)

CASES REPORTED IN PAST TWO WEEKS: Data from 11/20/2021 to 12/3/2021

For this section to auto-calculate,
 enter the date you exported the data here ----->

12/03/21
 mm/dd/yy

Number of Cases reported in past two weeks

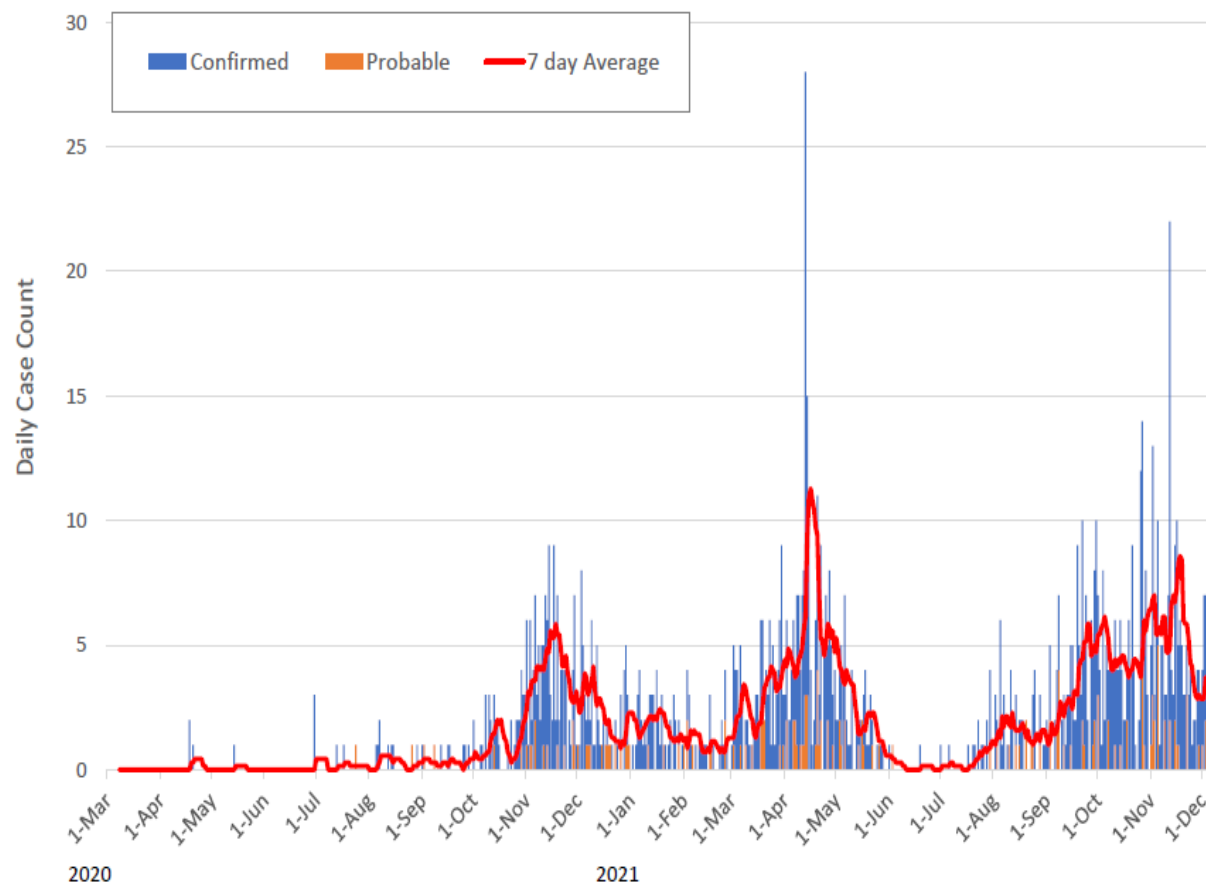
52

	Count	% **
In quarantine at time of onset/positive test	11	21.2%
Associated with known cluster/outbreak	2	3.8%
Any contact (HC, Comm, HH) to confirmed case	17	32.7%
Healthcare Contact to confirmed case	1	1.9%
Community Contact to confirmed case	3	5.8%
Household Contact to confirmed case	13	25.0%
Attended Community Event/Mass Gathering	2	3.8%
Any Travel (international, domestic, in state)	0	0.0%
Source of infection is unknown	18	34.6%

** Denominator is the number of cases reported in past two weeks

Total Cases: 1,188

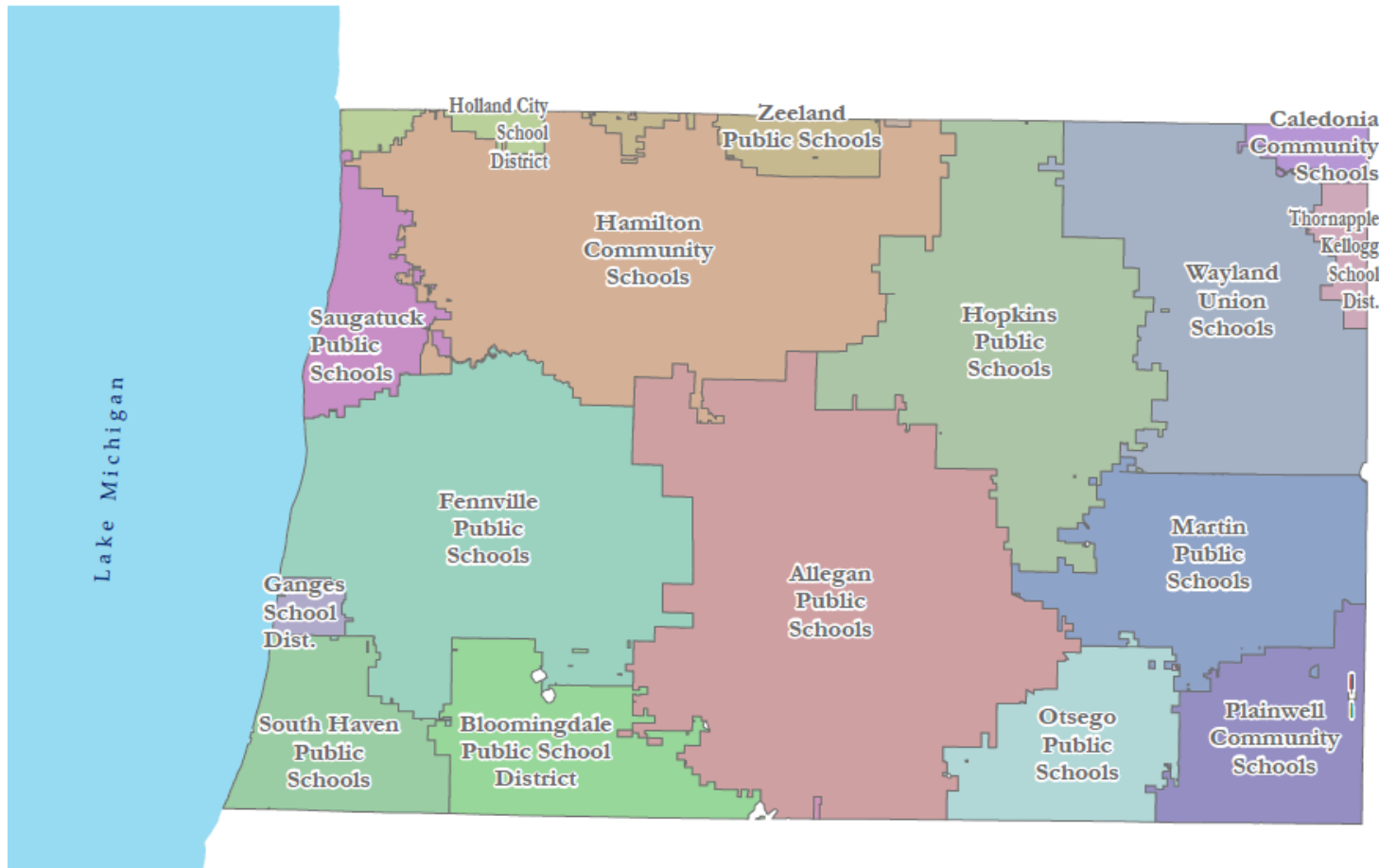
Alleghan County COVID-19 Cases Ages 14 to 17 by Referral Date



Source: Michigan Disease Surveillance System

Map for Cases by School District: Data from 11/20/21 to 12/3/21

Allegan County School Districts



Total Cases
(11/20/21 to 12/3/21)

Ages 5 to 10: 104

Ages 11 to 13: 48

Ages 14 to 17: 52

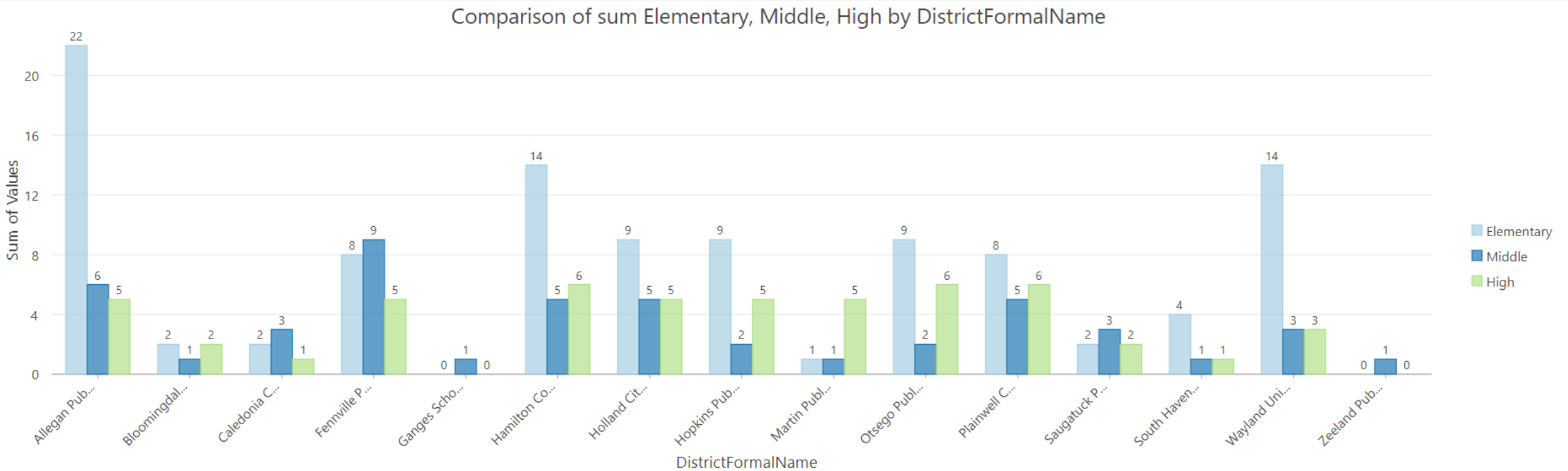
* Please note this data is formulated by address from Michigan Disease Surveillance System and some school age cases in a district may attend school in another district. Cases are updated on all school websites, please see individual school district webpage for more specific case numbers as required by the October 6, 2020 MDHHS Epidemic Order, Reporting of Confirmed and Probable Cases of COVID-19 at School.

Chart for Cases by School District: Data from 11/20/21 to 12/3/21

Total Elementary Cases: 104

Total Middle School Cases: 48

Total High School Cases: 52



*Please note this data is formulated by address from Michigan Disease Surveillance System and some school age cases in a district may attend school in another district. Cases are updated on all school websites, please see individual school district webpage for more specific case numbers as required by the October 6, 2020 MDHHS Epidemic Order, Reporting of Confirmed and Probable Cases of COVID-19 at School.

School District	Vaccine Efforts	Mask Requirements	Contact Tracing/ Screening	Social Distancing	Air Ventilation/ Cleaning	Percentage Fully Vaccinated (%)	Number of Cases
Allegan Public Schools		√§	✓	✓	✓	Grade 0-5: 0% Grade 6-8: 19.5% Grade 9-12: 35%	31
Allegan Area Educational Service Agency (includes ACATEC and Hillside)		✓	✓	✓	✓	41%	10
Fennville Public Schools	✓			✓	✓	Elementary: 0% Middle School: 16.3% High School: 33% Pearl Alternative: 21.1% Staff: 62.1%	7
Glenn Public School		✓		✓	✓	Students: 0% Staff: 90%	1
Hamilton Community Schools				✓	✓	14.3%	9
Holland Christian Schools †, ◊							2
Hopkins Public Schools**		√§		✓	✓		8
Innoacademy- Allegan Campus	✓		✓	✓	✓	Students: 5.6% Staff: 80%	1
Martin Public Schools †						Grade 0-5: 0% Grade 6-8: 17% Grade 9-12: 21.5%	5
Moline Christian School†,◊							2
Otsego Public Schools				✓	✓	Elementary: 0% High School: 44% Middle School: 29.4%	17
Outlook Academy	✓		✓	✓	✓	43.2%	0
Plainwell Community Schools	✓	√☼	✓	✓	✓	22.3%	5
Saugatuck Public Schools	✓	✓	✓	✓	✓	Douglas Elementary: 0% Middle School: 37% High School: 59.4%	15
St. Mary's Visitation**		✓	✓	✓	✓		1
St. Margaret School†,◊							0
St. Stanislaus School†,◊							0
St. Therese Catholic School	✓	✓	✓	✓	✓	Students: 0% Staff: 62.5%	1
Wayland Union Schools	✓		✓	✓	✓	16%	19

* Following ACHD order of K-6 students to wear masks
§ Following universal masking for K-12 students until after the Thanksgiving break
☼ Following universal masking for K-12 students under January 14, 2022
**Data is insufficient for calculating percent vaccinated
† Did not receive information in the ACHD 21-22 Back to School Survey
◊ Did not receive roster information to calculate percent vaccinated
Data for Number of Cases is the current number of cases in that district as of 12/6/21. Data for Percent Vaccinated is fully vaccinated/ number of students or staff (roster provided by school district).
Data calculations for percent vaccinated is updated as of 12/6/21.

Sources: ACHD School SharePoint Site, ACHD Back to School Survey, MICR

Close Contact Data by School Building (Districts A-M)

District	School	Total Close Contacts	School Exposure	On Quarantine	Eligible for Self Monitoring / Close Contacts Attending Class	Eligible for Daily Testing	Total student population
AAESA	ACATEC	3	2	3	0	0	638
AAESA	Hillside	11	10	1	10	0	124
Allegan	Allegan HS	2	0	2	0	0	581
Allegan	Dawson El	8	4	7	1	0	284
Allegan	LE White MS	62	56	49	13	28	492
Allegan	Pine Trails El	10	6	10	0	6	347
Allegan	West Ward El	49	44	45	4	2	234
Fennville	Fennville El	14	0	14	0	0	551
Fennville	Fennville MS	8	0	8	0	0	310
Fennville	Fennville HS	11	0	11	0	0	421
Glenn	Glenn	10	10	0	10	0	33
Hamilton	Bentheim El	0	0	0	0	0	234
Hamilton	Blue Star El	0	0	0	0	0	233
Hamilton	Hamilton El	0	0	0	0	0	356
Hamilton	Hamilton HS	20	20	20	0	0	798
Hamilton	Hamilton MS	6	6	6	0	0	821
Hamilton	Sandyview El	0	0	0	0	0	98
Hopkins	Hopkins El	0	0	0	0	0	397
Hopkins	Hopkins HS	1	0	1	0	0	522
Hopkins	Hopkins MS	5	0	5	0	0	369
Hopkins	Sycamore El	9	2	9	0	0	251
Martin	Brandon El	14	14	13	1	0	288
Martin	Martin HS	3	0	3	0	0	331
Martin	Martin MS	2	0	2	0	0	
Charter	Innocademy	7	7	6	1	6	87
Charter	Outlook	0	0	0	0	0	44

This data is the identified current close contacts by each school building on **12/6/2021**. **Note: this is not an aggregate number.**

Source: ACHD School SharePoint Site

Definitions:

- Total close contact:** Any school staff or student that was determined to meet the close contact definition (includes household exposures)
- Eligible for self monitoring/still attending:** Any close contact that is still attending school due to vaccination status, previous infection in the last 90 days, or both case and close contact were masked during time of exposure.
- School Exposure:** the exposure was identified in the school setting
- On quarantine:** those that are following the traditional quarantine and not attending school during their quarantine period.
- Eligible for Daily Testing:** Any school staff or student identified as a close contact to an unmasked case, but was wearing a mask during the time of exposure. These individuals have a quarantine option to test daily for 7 days in order to stay in school.
- Total Student Population:** numbers are from the 2020-2021 school year from [MI School Data](#). Please note this does not include staff numbers. Private schools were not available at the time of publication.

Close Contact Data by School Building (Districts O-W & Non-Public)

District	School	Total Close Contacts	School Exposure	On Quarantine	Close Contacts Attending Class	Eligible for Daily Testing	Total student population
Otsego	Dix St. El	0	0	0	0	0	310
Otsego	Otsego HS	0	0	0	0	0	687
Otsego	Otsego MS	0	0	0	0	0	535
Otsego	Otsego WC HS	0	0	0	0	0	33
Otsego	Washington El	0	0	0	0	0	427
Plainwell	Gilkey El	0	0	0	0	0	378
Plainwell	Plainwell HS	0	0	0	0	0	834
Plainwell	Renaissance HS	0	0	0	0	0	61
Plainwell	Starr El	1	1	1	0	0	452
Plainwell	Plainwell MS	0	0	0	0	0	645
Saugatuck	Douglas El	28	15	26	2	0	345
Saugatuck	Saugatuck HS	3	0	3	0	0	264
Saugatuck	Saugatuck MS						206
Wayland	Baker El	20	20	20	0	0	318
Wayland	Dorr El	0	0	0	0	0	396
Wayland	Pine St. El	10	10	7	3	7	405
Wayland	Steeby El	0	0	0	0	0	241
Wayland	Wayland HS	0	0	0	0	0	825
Wayland	Wayland MS	22	22	20	2	0	684
Non-Public	East Martin	0	0	0	0	0	
Non-Public	Moline Christian	0	0	0	0	0	
Non-Public	St. Margaret's	1	0	1	0	0	
Non-Public	St. Mary's	13	11	13	0	0	
Non-Public	St. Stanislaus	0	0	0	0	0	
Non-Public	St. Therese	1	0	1	0	0	
Non-Public	Holland Christian	0	0	0	0	0	

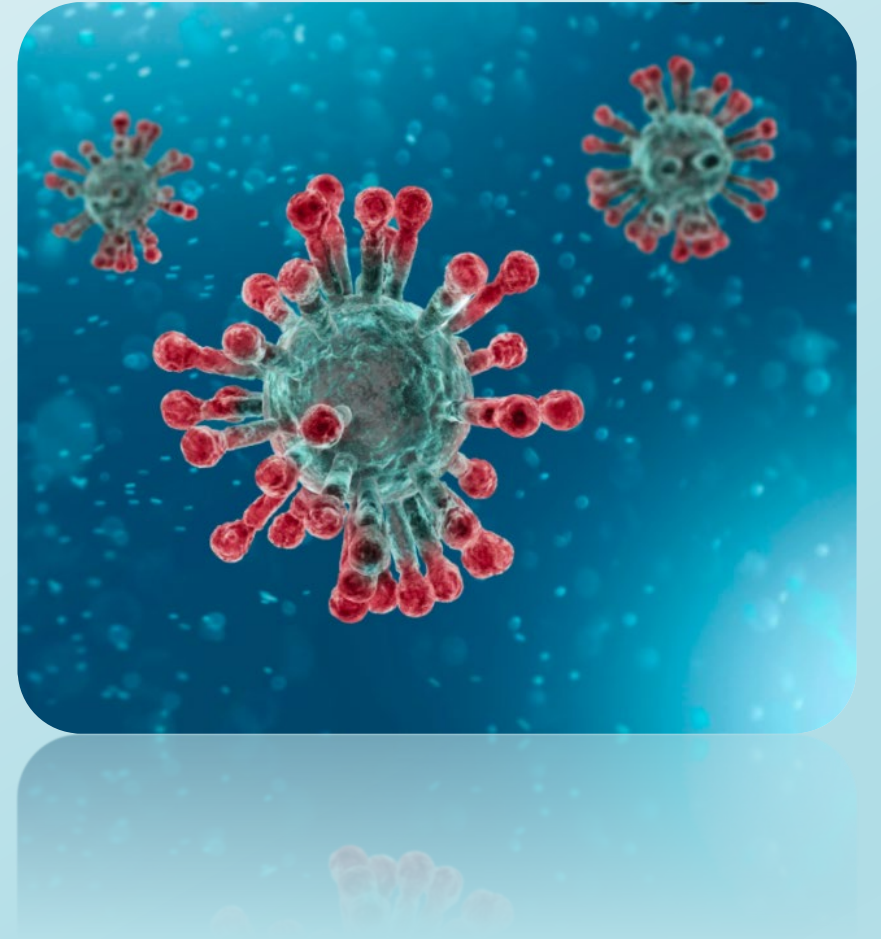
This data is the identified current close contacts by each school building on **12/6/2021**. **Note: this is not an aggregate number.**

Source: ACHD School SharePoint Site

Definitions:

- Total close contact:** Any school staff or student that was determined to meet the close contact definition (includes household exposures)
- Eligible for self monitoring/still attending:** Any close contact that is still attending school due to vaccination status, previous infection in the last 90 days, or both case and close contact were masked during time of exposure.
- School Exposure:** the exposure was identified in the school setting
- On quarantine:** those that are following the traditional quarantine and not attending school during their quarantine period.
- Eligible for Daily Testing:** Any school staff or student identified as a close contact to an unmasked case, but was wearing a mask during the time of exposure. These individuals have a quarantine option to test daily for 7 days in order to stay in school.
- Total Student Population:** numbers are from the 2020-2021 school year from [MI School Data](#). Please note this does not include staff numbers. Private schools were not available at the time of publication.

Science Round Up: School Related Data



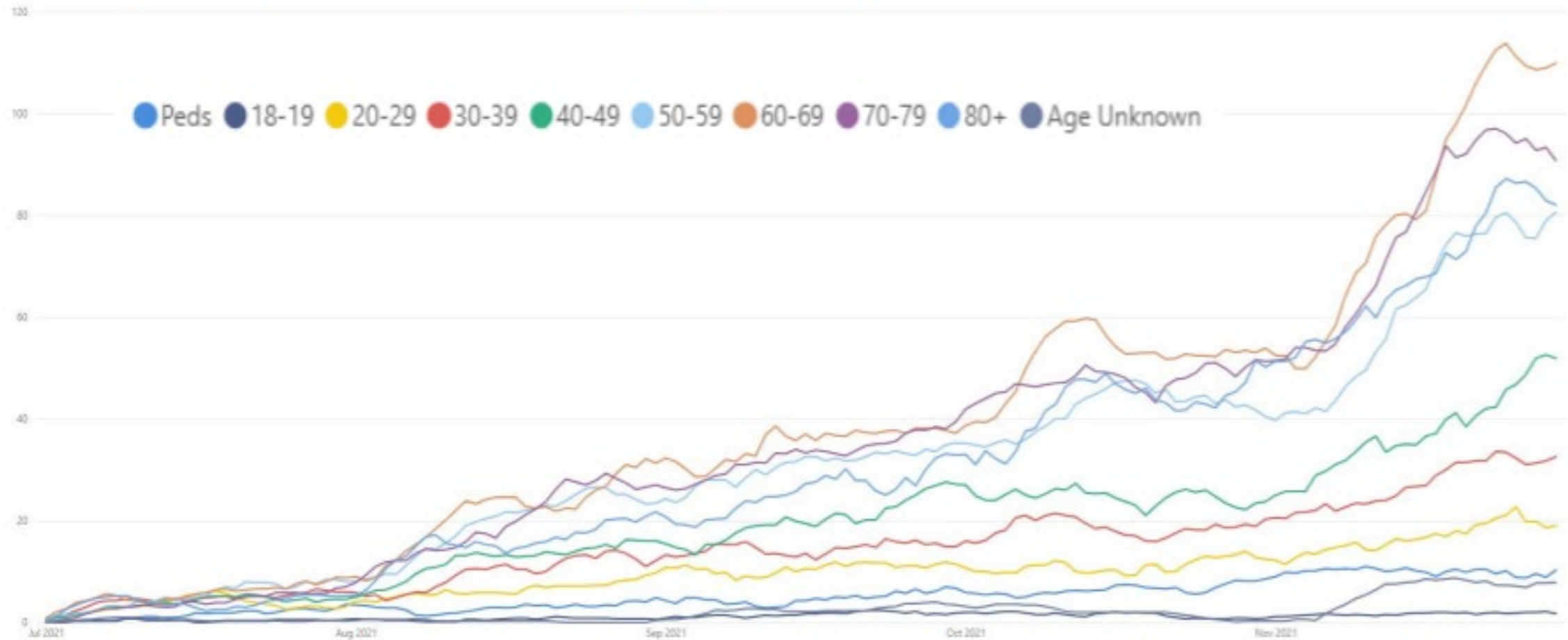
Omicron B.1.1.529

Omicron carries about 50 mutations not seen in combination before, including more than 30 mutations on the spike protein that the coronavirus uses to attach to cells.



Omicron's spike protein has several mutations that are found in other variants of concern and that are thought to make the virus more infectious, including D614G, N501Y and K417N. **New York Times**

Average Hospital Admissions by Age Groups



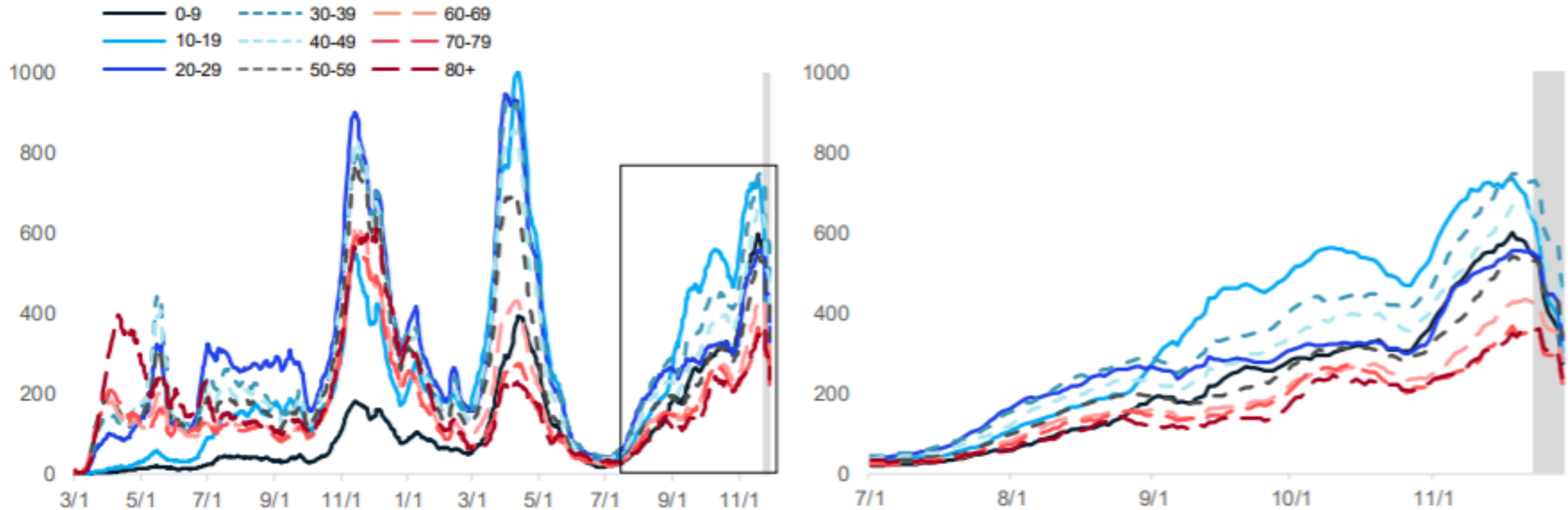
- Trends for daily average hospital admissions have increased 2% since last week (vs. 23% increase prior week)
- Nearly all age groups saw increases this week with largest increases in those between 40 and 49 years (23%, +10)
- More than 75 daily hospital admissions was seen for each of the age groups of 50-59, 60-69, 70-79, and 80+

Source: CHECC & EM Resource

Michigan Trends, as of November 30, 2021

Case Rate Trends by Age Group

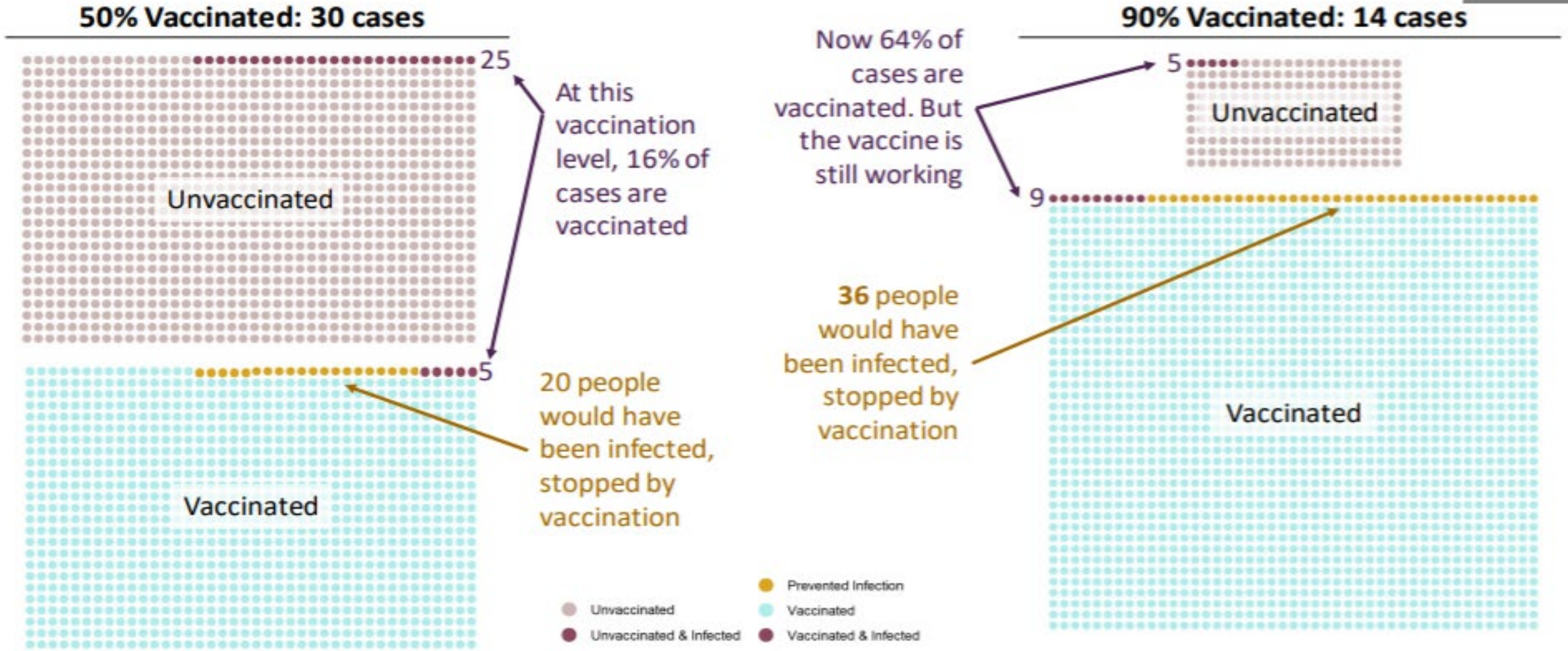
Daily new confirmed and probable cases per million by age group (7-day rolling average)



- Case rate trends for most age groups are increasing but trends are impacted holiday
- Case rates by onset date for all age groups are between 350 and 725 cases per million (through 11/22)
- Case counts and case rates are highest for 30-39-year-olds this week

Note: Case information sourced from MDHHS and reflects date of onset of symptoms
Source: MDHHS – Michigan Disease Surveillance System

When more people are vaccinated, more cases will come from the vaccinated population

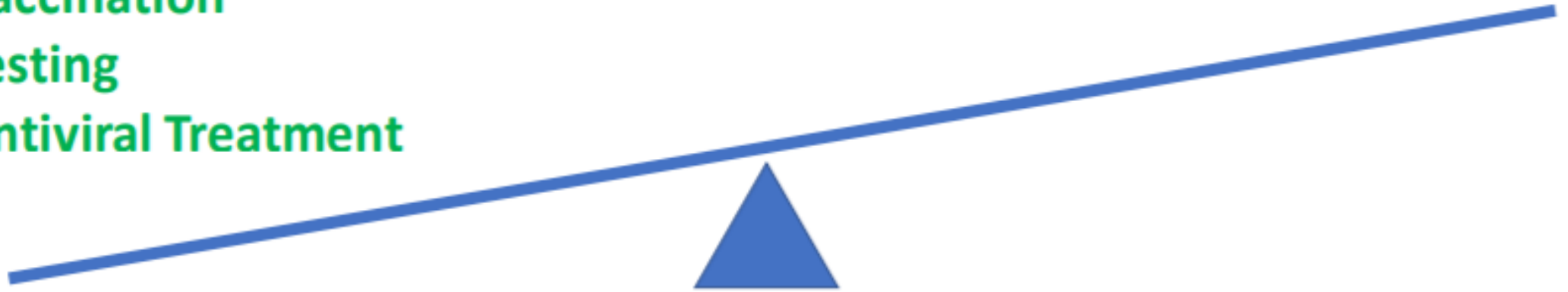


Both Scenarios: Vaccine reduces disease by 80%, 2.5% infection level, 2000 total people

When Mitigation Measures Are Widely Implemented, Pandemic Burden is Offset

Wearing Masks
Vaccination
Testing
Antiviral Treatment

Variants (e.g., Delta, Omicron)
Influenza
Risk to nursing homes
COVID Pressure on Hospitals



Key Messages

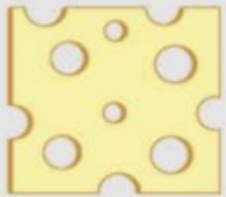
- We have the tools to control community spread, protect the vulnerable, and prevent disruptions (e.g., quarantine, hospitals overwhelmed)
- Together, these tools work even against variant strains

Mitigation Strategies for Schools

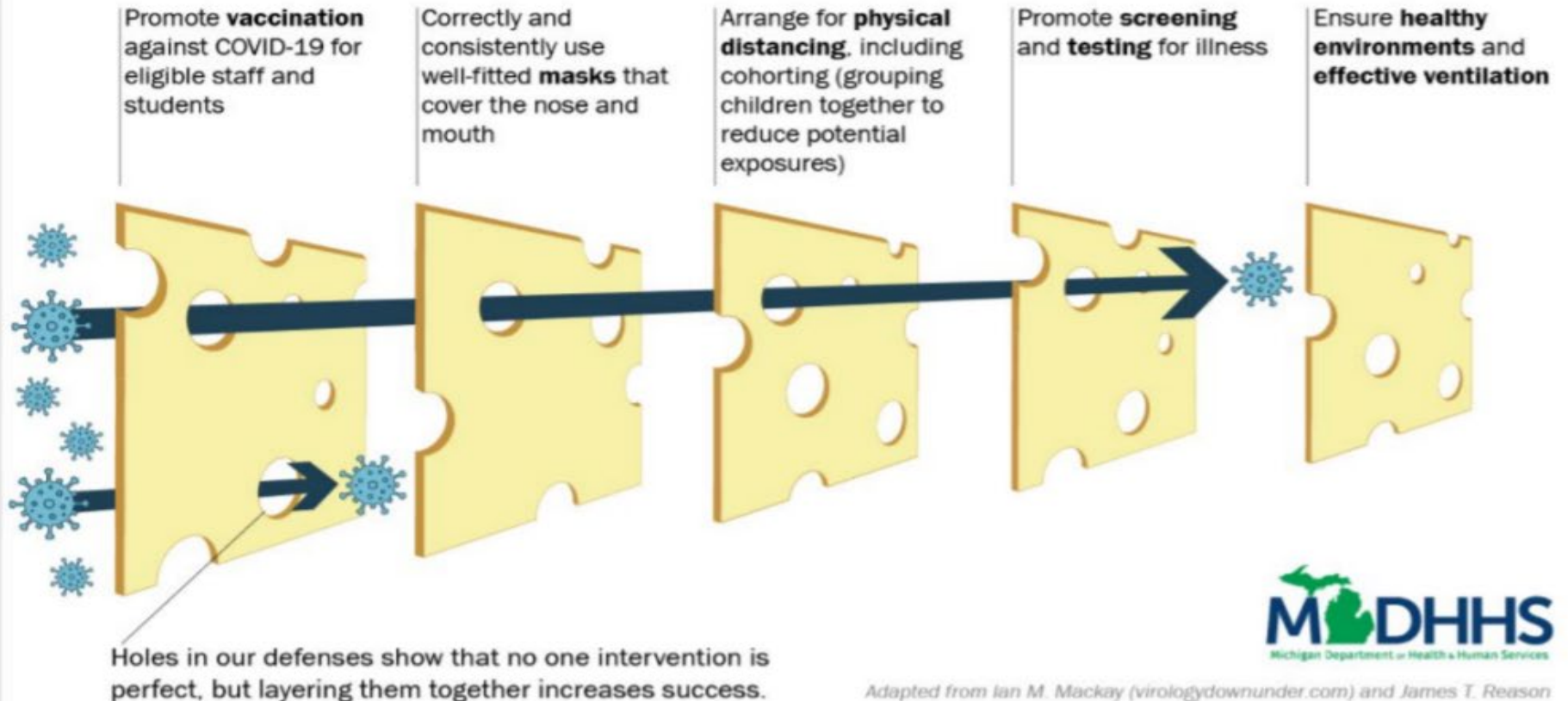
Layers of Defense Against COVID-19 in Schools

CDC recommended prevention strategies can be layered in different ways – the number and intensity of the layers can increase if community transmission increases

As community transmission increases, more holes appear in the defenses, meaning more layers of protection may be needed.



As the vaccination rate within a building or facility increases, fewer holes will appear in the defenses.



Adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason

Safer Ways to Celebrate Holidays

Holiday traditions are important for families and children. There are several ways to enjoy holiday traditions and protect your health. Many generations tend to gather to celebrate holidays. Here are some ways to celebrate the holidays more safely:



- The best way to minimize COVID-19 risk and keep your family and friends safer is to **get vaccinated** if you're eligible.
- If you are sick or have symptoms, don't host or attend a gathering.
- Regardless of vaccination status, all those aged 2 or older, you should **wear a mask in indoor public places** in areas of substantial or high SARS-CoV-2 transmission and in crowded, poorly ventilated outdoor areas.
- **Before a multihousehold gathering, consider taking a rapid antigen test**, regardless of whether you've been in contact with someone with COVID-19; if you test positive, stay home until you consult your provider and rule out any possibility of infecting others.
- Consider a setting where people can spread out and where there can be good ventilation.
- If you are traveling for a holiday event, follow domestic and international travel guidelines and public health recommendations.
- Practice healthy hygiene – e.g., proper respiratory etiquette, wash your hands frequently, and avoid touching your face.
- People who have a condition or are taking medications that weaken their immune system may not be fully protected even if they are fully vaccinated. They should continue to take all precautions recommended for unvaccinated people, including wearing a well-fitted mask, until advised otherwise by their healthcare provider.
- Visit the CDC COVID-19 [Safer Ways to Celebrate Holidays](#) and [Travel Guidelines](#) for more information on how to keep yourself and your loved ones safe this holiday season.



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Questions on the School Reports?

Please submit an [inquiry form](#) with your questions and your contact information.