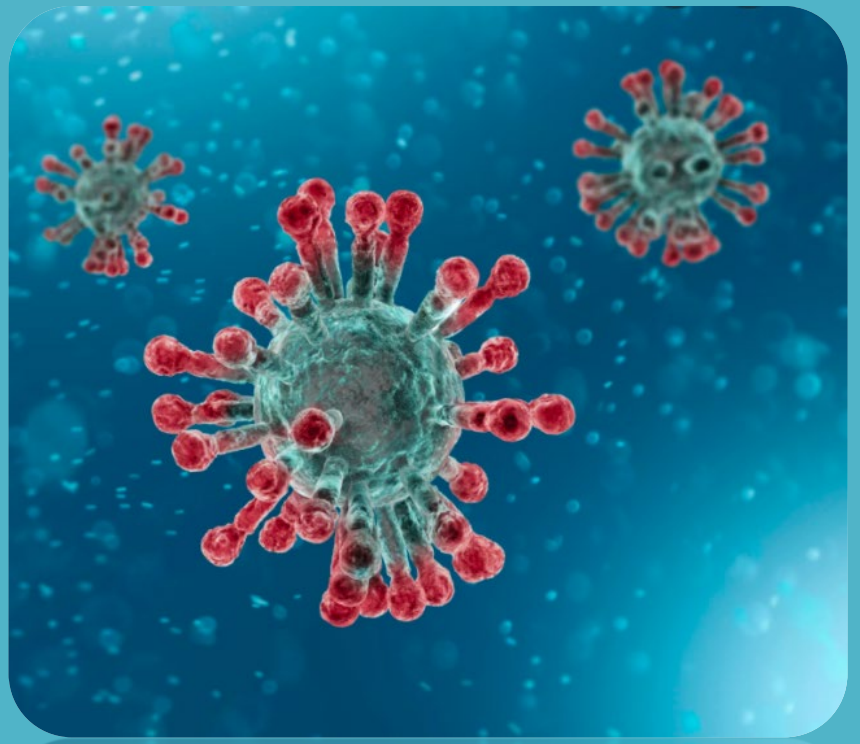
HEALTH Department

ACHD COVID-19 School Update



2021-2022 School Year

January 25, 2022 Update

HEALTH Department

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.

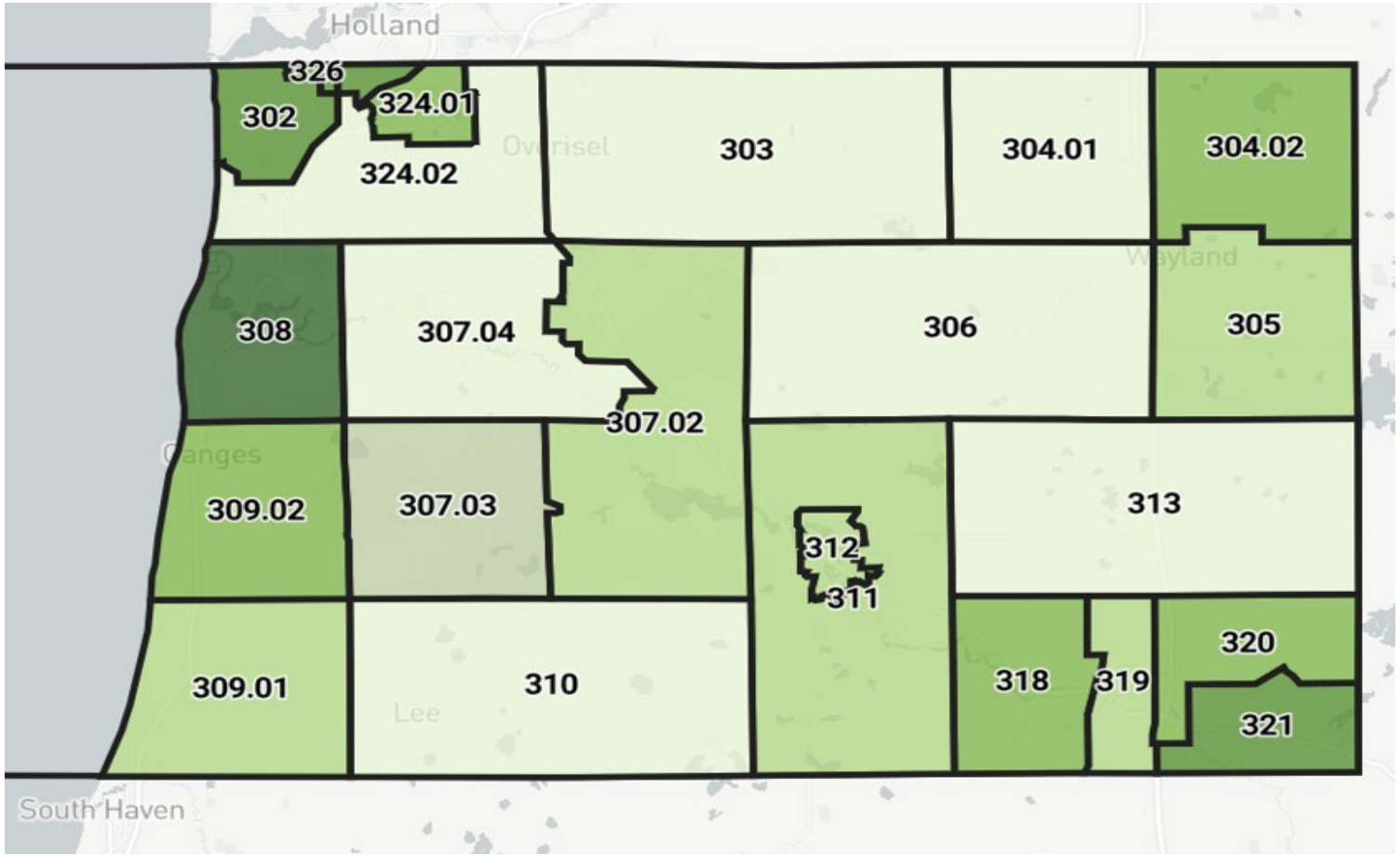
This report will be published under the "Schools" resource section on www.allegancounty.org/covid

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

HEALTH Department

Allegan County Vaccination Coverage Trends (% Age 16+), As of January 24, 2022



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

0-9% 10-19% 20-29% 30-39% 40-49% 50-59% 60-69% 70-79% 80-89% >90% <150 Population

Allegan County Percentage Fully Vaccinated-All Ages:

51% (58,813/115,250)

Percent Breakthrough-All Ages:

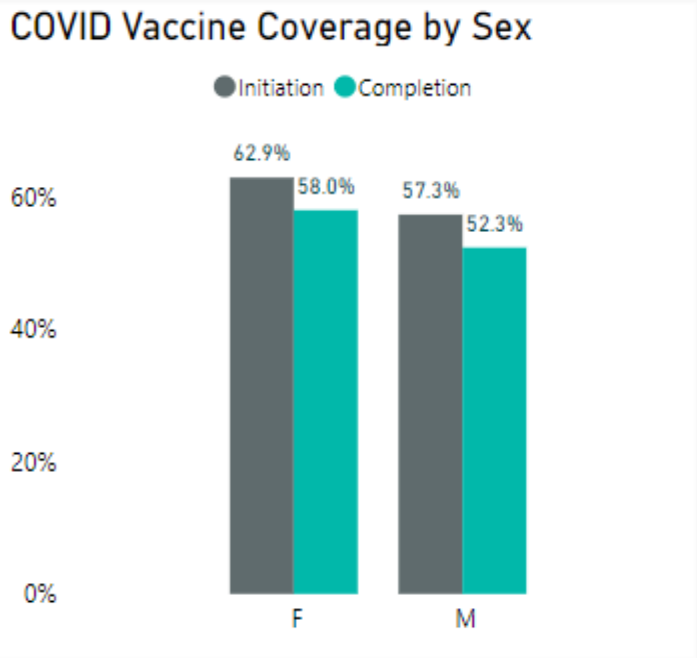
3.09%* (2,007/64,963)

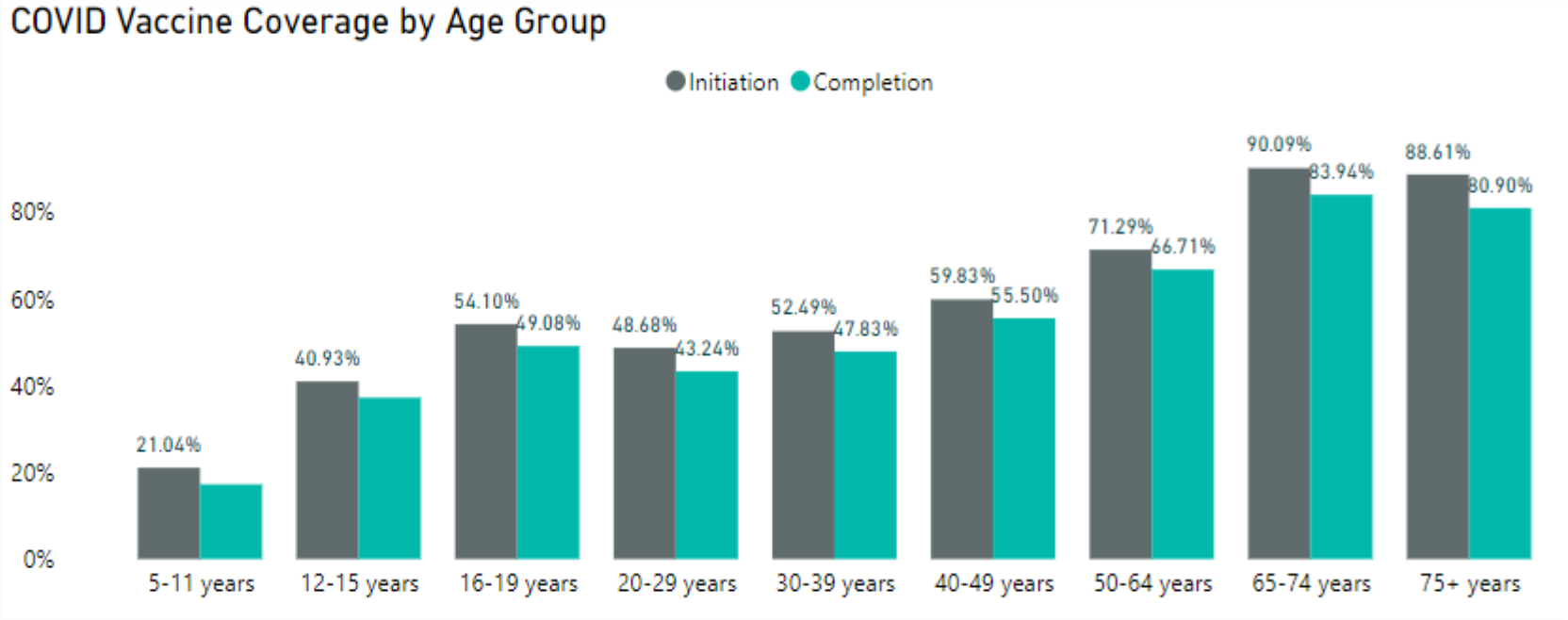
- NOTE: Data is as of 1/1/21. ACHD is waiting on updated Breakthrough Case data from the state. These data were not ready at time of publication.
- Breakthrough case: a confirmed COVID-19 case in a fully-vaccinated individual

MI Lighthouse Report: Region Map

Source: Michigan Disease Surveillance System; MI Lighthouse Report

Allegan County Vaccination by Gender and Age Group, As of January 20, 2022





Age Group	Initiated	Completed
5 to 11	2,322 (21%)	1,898 (17.2%)
12 to 15	2,754 (40.9%)	2,503 (37.2%)
16 to 19	3,125 (54.1%)	2,835 (49.1%)

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

HEALTH Department

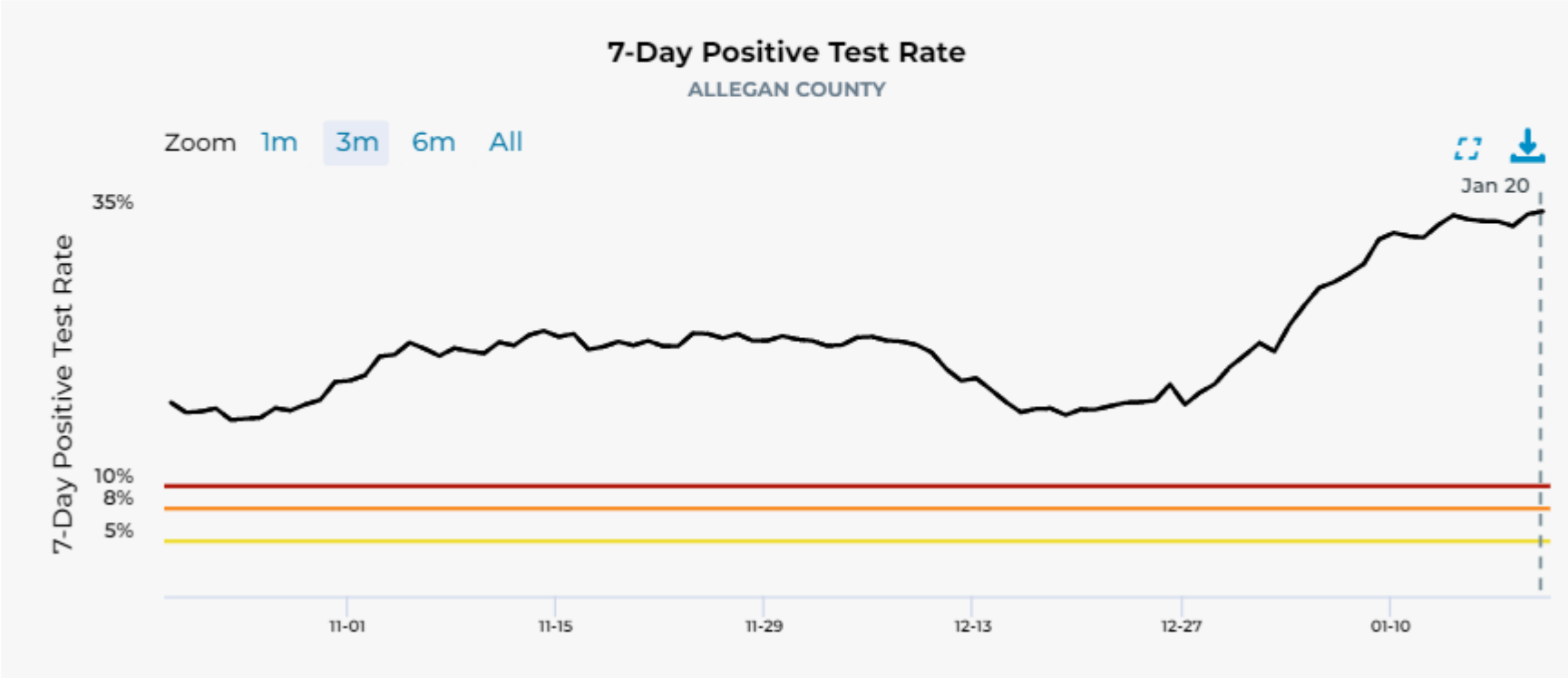
Allegan County Testing Trends All Ages, As of January 20, 2022

Test Positivity
Jan 14 - Jan 20

35.1%
positive tests

4.2k
daily tests administered per million

4 weeks
Dec 17 - Jan 14



Risk Thresholds (% Positive)

Low: <5%

Moderate 5-<8%

Substantial 8-<10%

High >=10%

Source: [MI Safe Start Map]

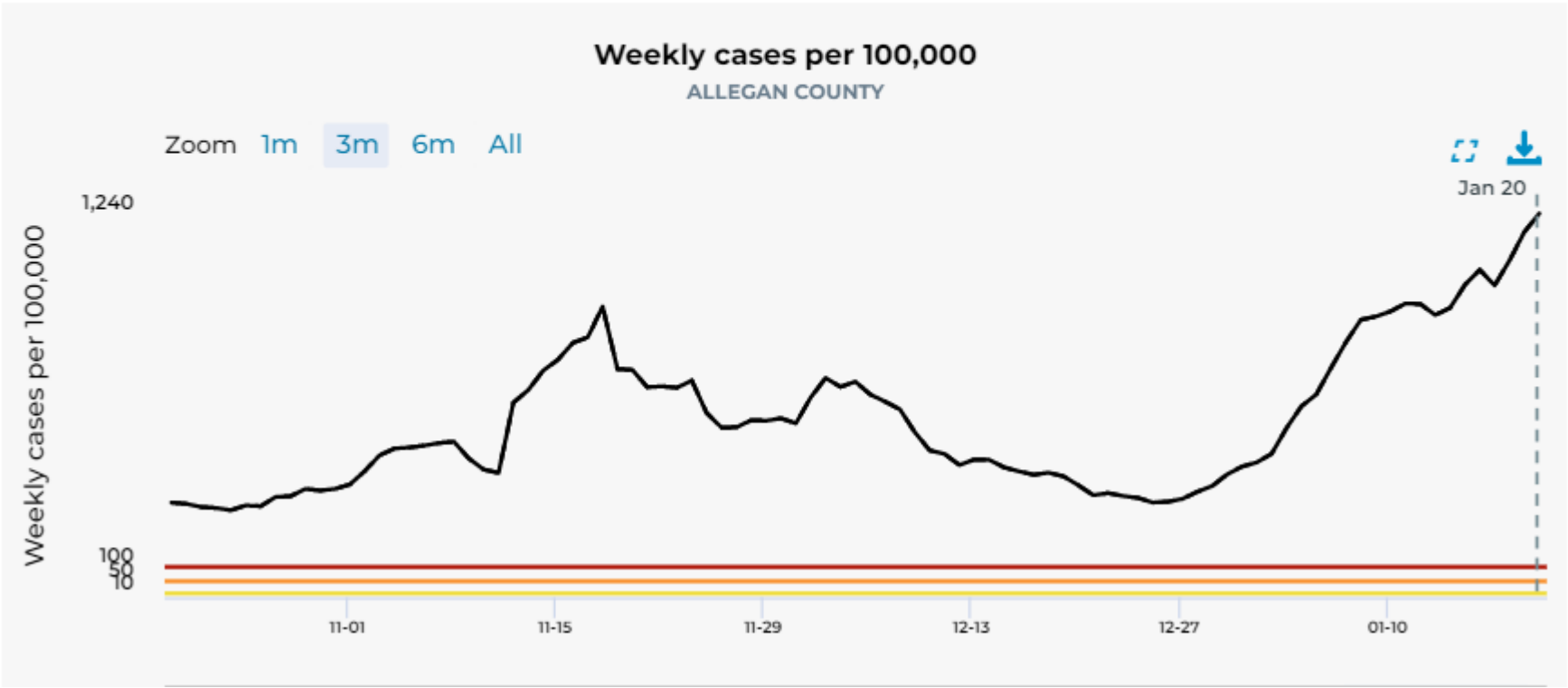
HEALTH Department

Allegan County Case Trends All Ages, As of January 20, 2022

New Cases
Jan 14 - Jan 20

1,239.8
weekly cases per 100,000 population

1,464
weekly cases



Risk Thresholds (Cases per 100,000)

Low: <10 | **Moderate** 10-49 | **Substantial** 50-99 | **High** >=100

Source: [MI Safe Start Map]

HEALTH Department

Allegan County Case Trends School Ages 3 to17
March 2020 through January 21, 2022

As of March 2020,
14.9% were asymptomatic cases (no symptoms but tested positive for COVID-19)

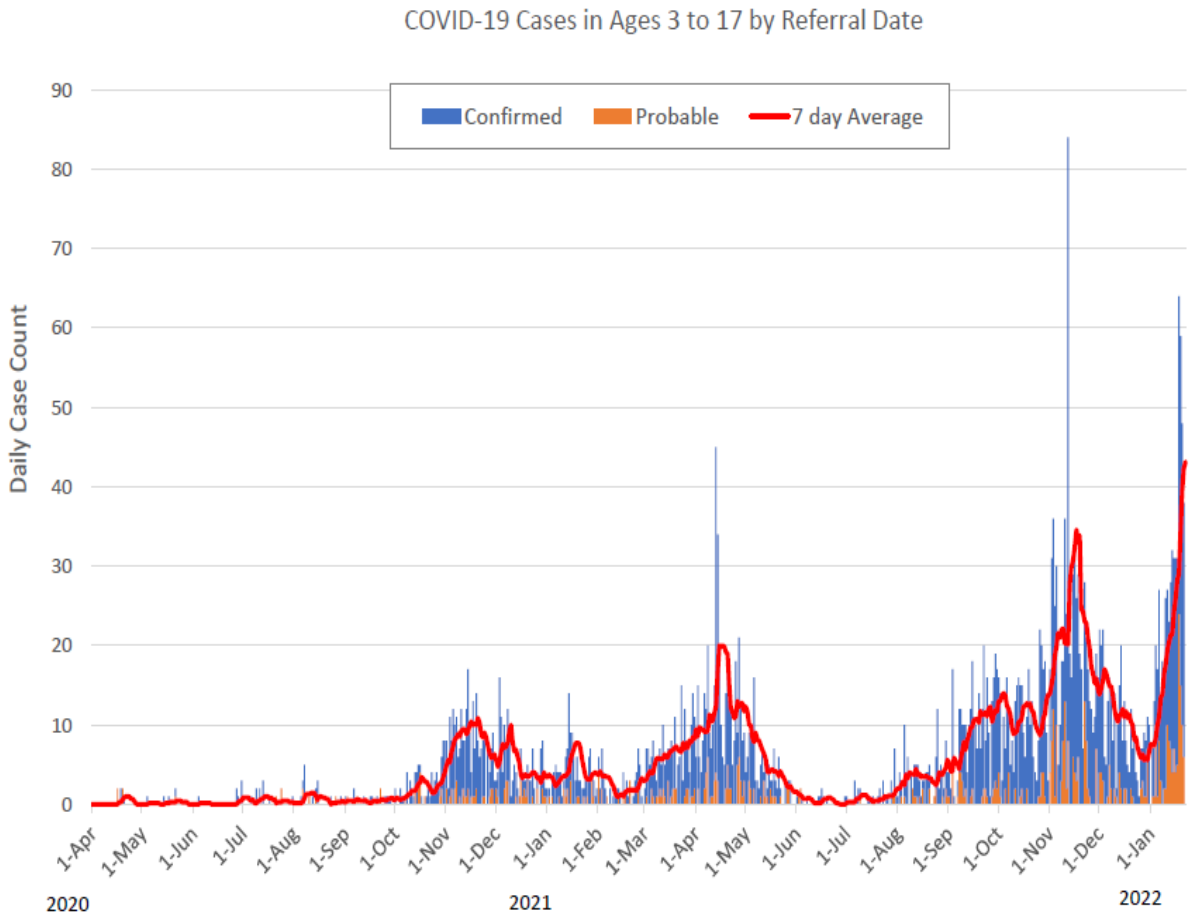
Data from 3/1//2020 to 01/21/2022

For this section to auto-calculate, enter the date you exported the data here -----> 03/01/20 *mm/dd/yy*

Number of Cases reported since March 2020	3856	
	Count	% **
In quarantine at time of onset/positive test	1021	26.5%
Associated with known cluster/outbreak	78	2.0%
Any contact (HC, Comm, HH) to confirmed case	1681	43.6%
Healthcare Contact to confirmed case	4	0.1%
Community Contact to confirmed case	403	10.5%
Household Contact to confirmed case	1335	34.6%
Attended Community Event/Mass Gathering	114	3.0%
Any Travel (international, domestic, in state)	186	4.8%
Source of infection is unknown	1187	30.8%

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

Total Cases : 3,856



Source: Michigan Disease Surveillance System

HEALTH Department

Allegan County Breakdown of Total COVID-19 Cases By School Age (3-17) From March 1, 2020 to January 21, 2022

Breakdown of Cases by School Age Categories	
Total Case Count	3856
Number of Cases <18 years	3856
% cases <18 years	100.0%

Approximate Grade Level	Age	Case Count*	% total cases	% cases <18 years
	0-2 years	0	0.0%	0.0%
Pre-K age	3-4 years	264	6.8%	6.8%
K-5th grade age	5-10 years	1306	33.9%	33.9%
6-8th grade age	11-13 years	829	21.5%	21.5%
9-12th grade age	14-17 years	1457	37.8%	37.8%

**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 Breakdown of COVID-19 Cases By School Age (3-17) Past 2 Weeks , As of January 21, 2022

Breakdown of Cases by School Age Categories	
Total Case Count	492
Number of Cases <18 years	492
% cases <18 years	100.0%

Approximate Grade Level	Age	Case Count*	% total cases	% cases <18 years
	0-2 years	0	0.0%	0.0%
Pre-K age	3-4 years	39	7.9%	7.9%
K-5th grade age	5-10 years	167	33.9%	33.9%
6-8th grade age	11-13 years	122	24.8%	24.8%
9-12th grade age	14-17 years	164	33.3%	33.3%

**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.

Source: Michigan Disease Surveillance System

Allegan County Case Trends Elementary School Ages 5 to10
March 2020 through January 21, 2022

As of March 2020,
42% were household contact to a confirmed case
18.5% were asymptomatic cases (no symptoms but tested positive for COVID-19)

Total Cases : 1,306

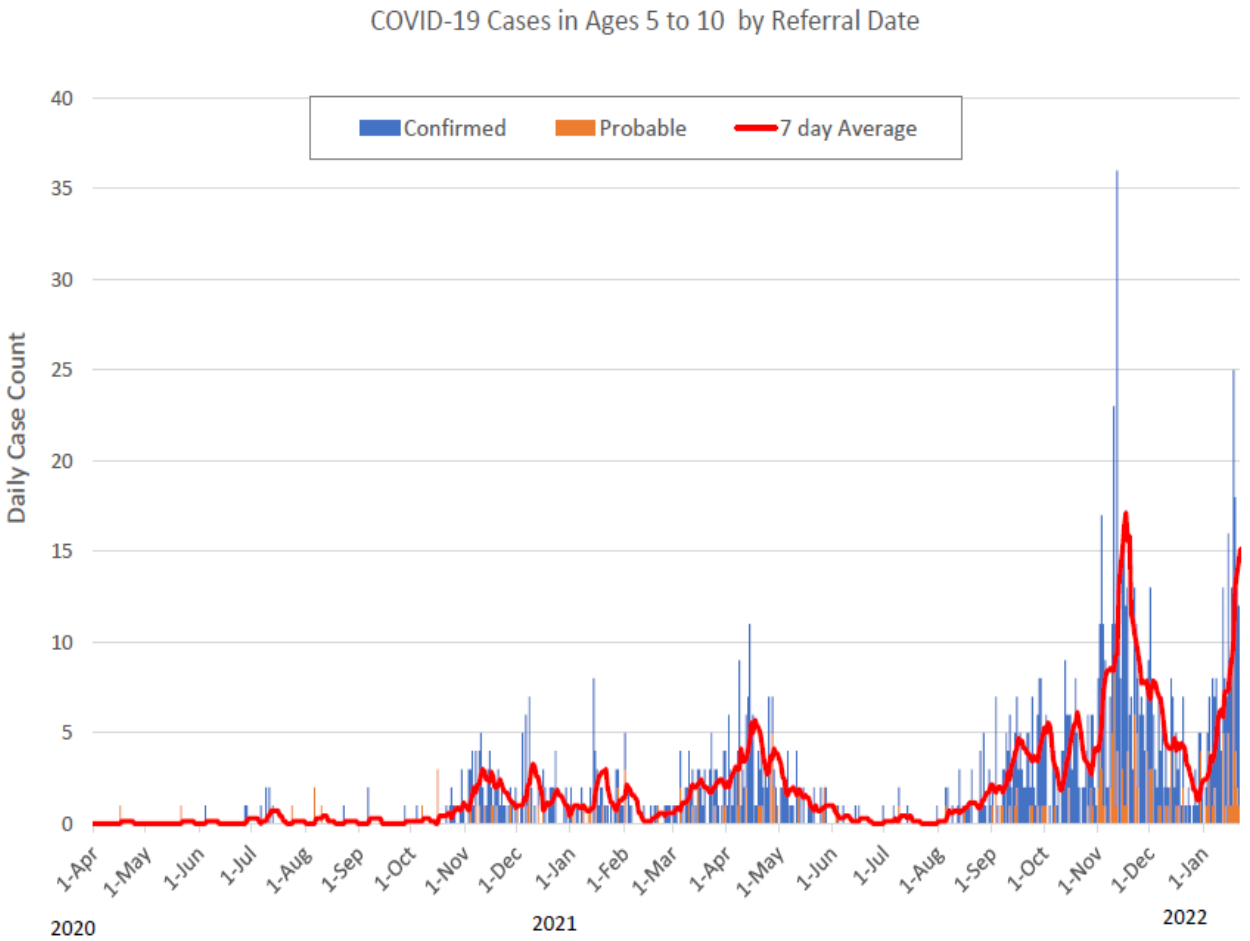
CASES REPORTED IN PAST TWO WEEKS: Data from 01/08/2022 to 01/21/2022

For this section to auto-calculate,
enter the date you exported the data here -----> 01/21/22
mm/dd/yy

Number of Cases reported in past two weeks 167

	Count	% **
In quarantine at time of onset/positive test	3	1.8%
Associated with known cluster/outbreak	1	0.6%
Any contact (HC, Comm, HH) to confirmed case	41	24.6%
Healthcare Contact to confirmed case	1	0.6%
Community Contact to confirmed case	13	7.8%
Household Contact to confirmed case	31	18.6%
Attended Community Event/Mass Gathering	2	1.2%
Any Travel (international, domestic, in state)	3	1.8%
Source of infection is unknown	41	24.6%

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



Source: Michigan Disease Surveillance System

HEALTH Department

Allegan County Case Trends Middle School Ages 11 to13
March 2020 through January 21,2022

As of March 2020,
36.2% were household contact to a confirmed case
13.4% were asymptomatic cases (no symptoms but tested positive for COVID-19)

CASES REPORTED IN PAST TWO WEEKS: Data from 01/08/2022 to 01/21/2022

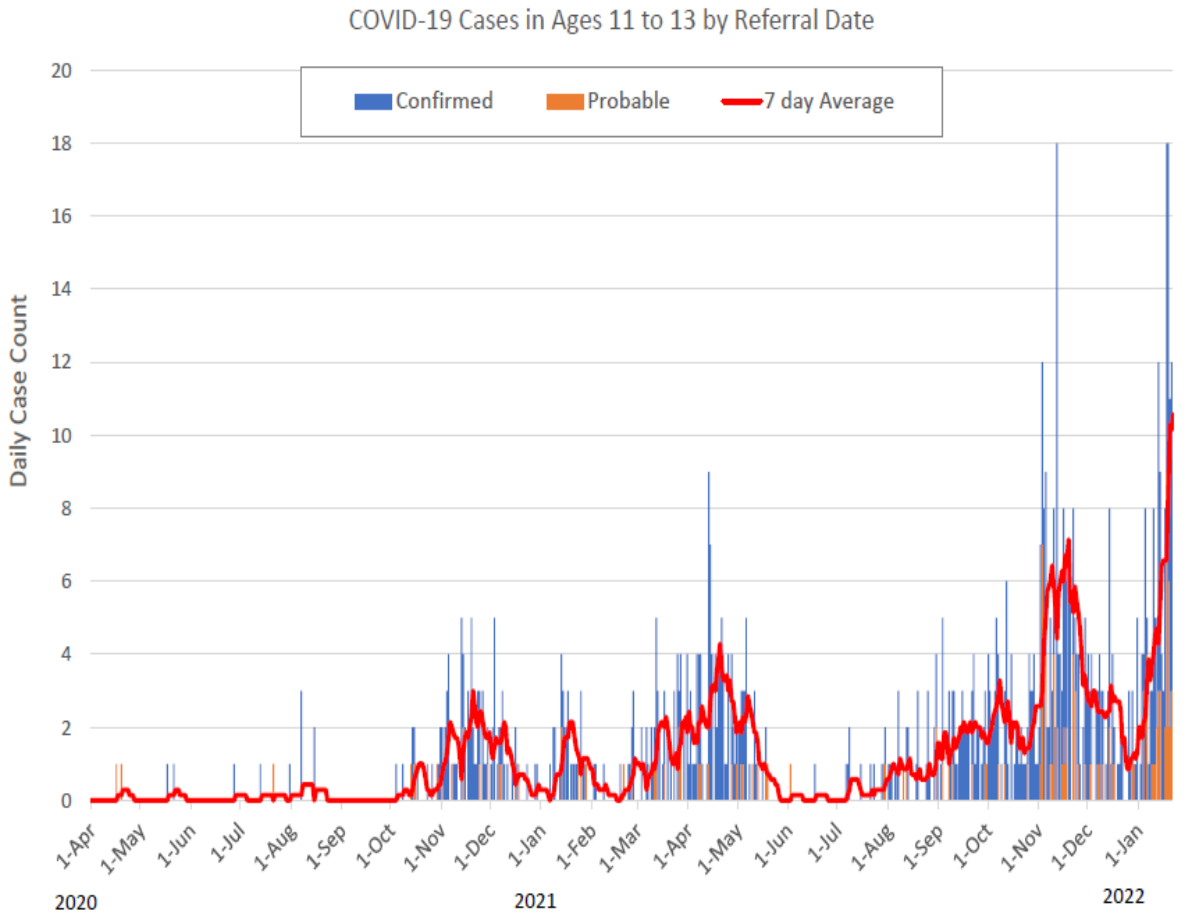
For this section to auto-calculate,
enter the date you exported the data here -----> 01/21/22
mm/dd/yy

Number of Cases reported in past two weeks 122

	Count	% **
In quarantine at time of onset/positive test	0	0.0%
Associated with known cluster/outbreak	2	1.6%
Any contact (HC, Comm, HH) to confirmed case	17	13.9%
Healthcare Contact to confirmed case	0	0.0%
Community Contact to confirmed case	6	4.9%
Household Contact to confirmed case	11	9.0%
Attended Community Event/Mass Gathering	2	1.6%
Any Travel (international, domestic, in state)	2	1.6%
Source of infection is unknown	28	23.0%

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

Total Cases : 829



Source: Michigan Disease Surveillance System

HEALTH Department

Allegan County Case Trends High School Ages 14 to 17
March 2020 through January 21, 2022

As of March 2020,
24.6% were household contact to a confirmed case
11.9% were asymptomatic cases (no symptoms but tested positive for COVID-19)

CASES REPORTED IN PAST TWO WEEKS: Data from 01/08/2022 to 01/21/2022

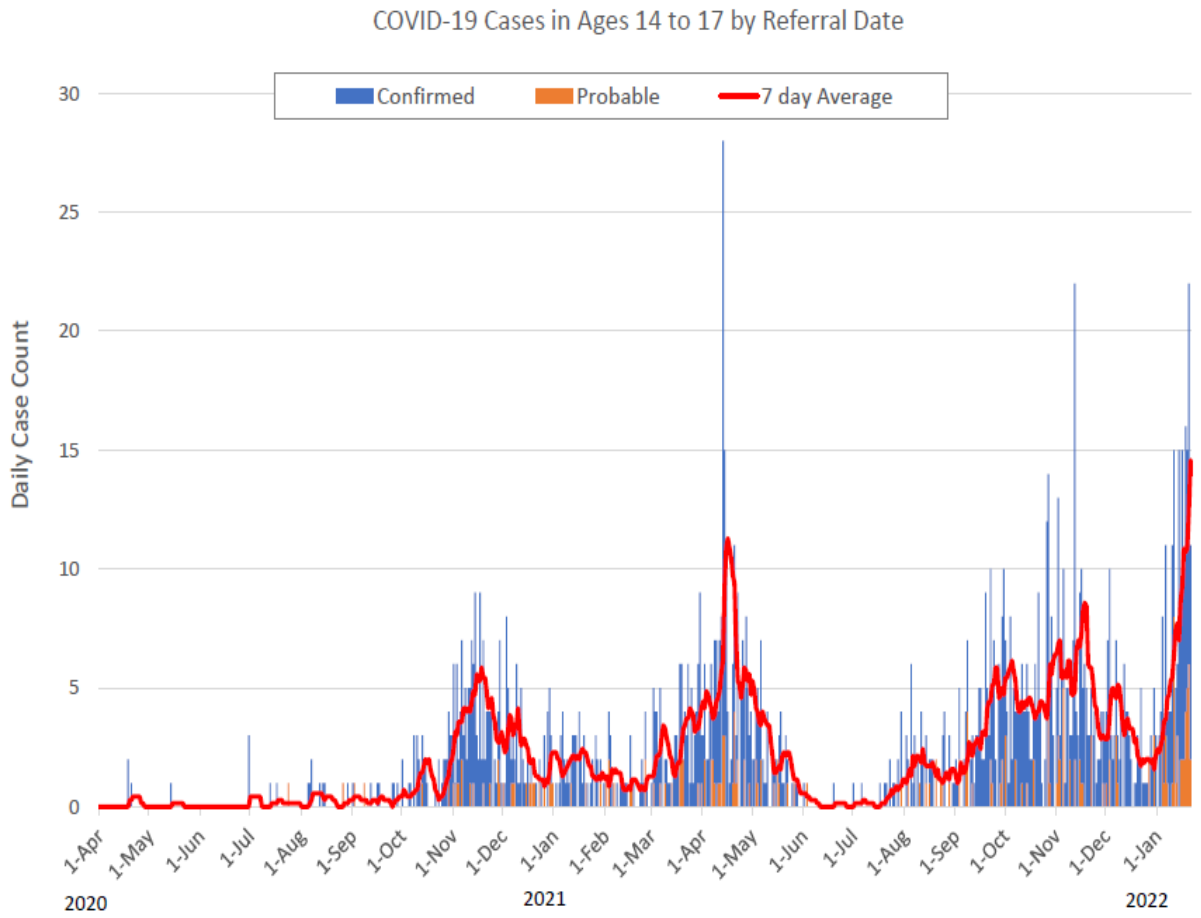
For this section to auto-calculate,
enter the date you exported the data here -----> 01/21/22
mm/dd/yy

Number of Cases reported in past two weeks 164

	Count	% **
In quarantine at time of onset/positive test	1	0.6%
Associated with known cluster/outbreak	0	0.0%
Any contact (HC, Comm, HH) to confirmed case	25	15.2%
Healthcare Contact to confirmed case	0	0.0%
Community Contact to confirmed case	11	6.7%
Household Contact to confirmed case	16	9.8%
Attended Community Event/Mass Gathering	1	0.6%
Any Travel (international, domestic, in state)	3	1.8%
Source of infection is unknown	40	24.4%

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

Total Cases: 1,457

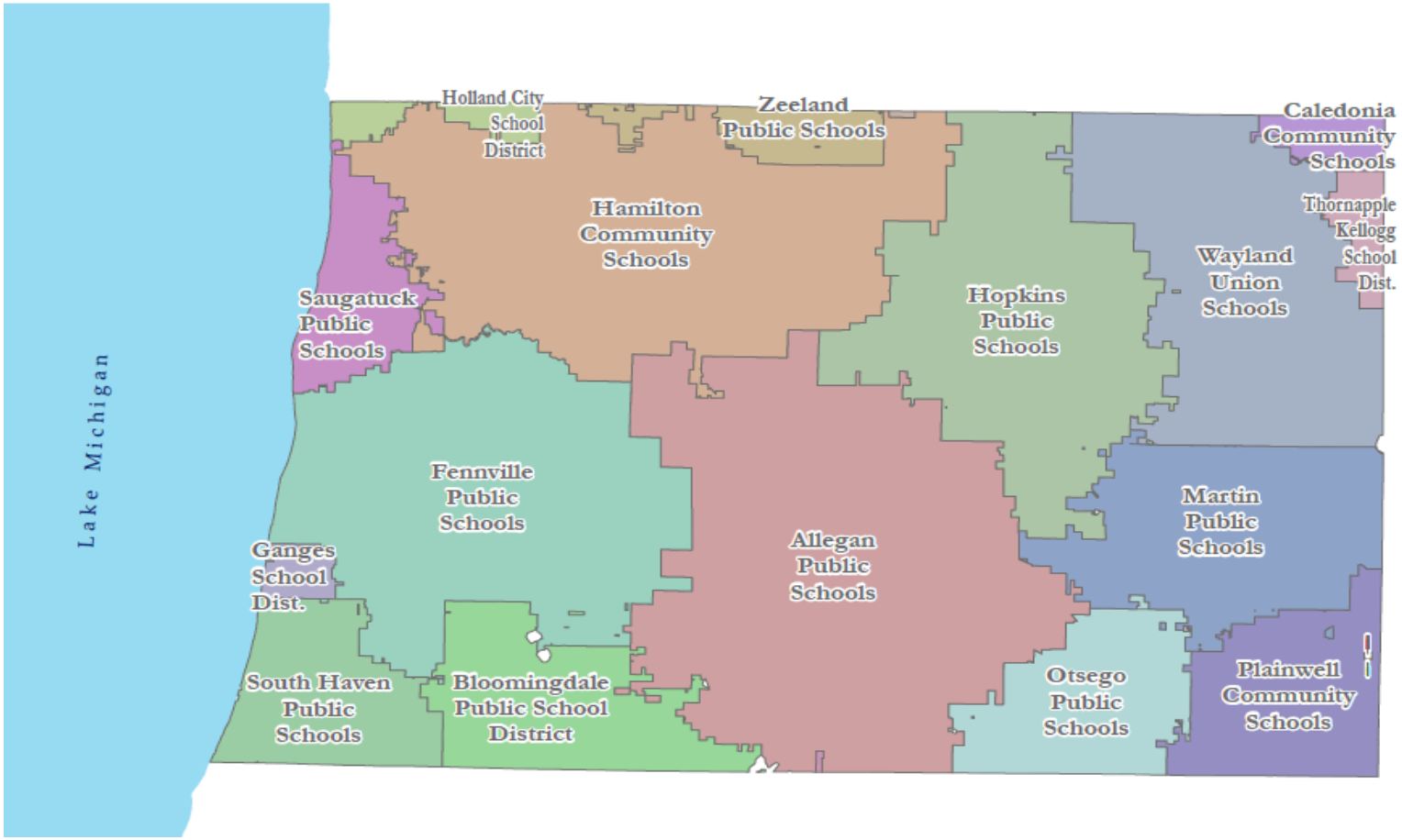


Source: Michigan Disease Surveillance System

HEALTH Department

Map for COVID-19 Cases by School District

Allegan County School Districts



Data from 01/08/2022 to 01/21/2022

Age Group	Total Cases
5 to 10	**154**
11 to 13	**118**
14 to 17	**153**

*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.

HEALTH Department

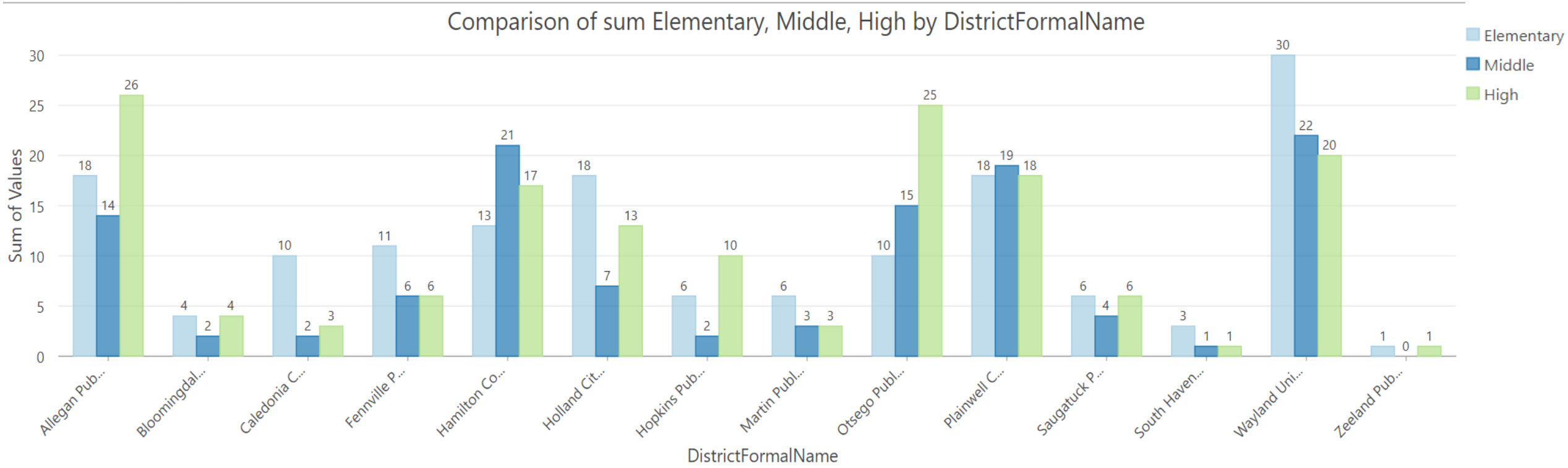
Chart for COVID-19 Cases by School District in Allegan County

Data from 01/08/2022 to 01/21/2022

Total Elementary Cases: 154

Total Middle School Cases: 118

Total High School Cases: 153



*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: 9% | Grade 6-8: 23% |Grade 9-12: 37%	66
Allegan Area Educational Service Agency (includes ACATEC and Hillside)		✓	✓	✓	✓	42%	34
Fennville Public Schools	✓		✓	✓	✓	Elementary: 8% | Middle School: 21% High School: 35% |Pearl Alternative: 28% |Staff: 59%	27
Glenn Public School		✓	✓	✓	✓	Students: 30% | Staff: 90%	3
Hamilton Community Schools			✓	✓	✓	21%	34
Holland Christian Schools ǂ, ◊			✓				6
Hopkins Public Schools**			✓	✓	✓		29
Innoacademy- Allegan Campus	✓		✓	✓	✓	Students: 17% | Staff: 80%	5
Martin Public Schools ǂ			✓			Grade 0-5: 6% | Grade 6-8: 21% |Grade 9-12: 23%	15
Moline Christian School ǂ, ◊			✓				0
Otsego Public Schools		✓§	✓	✓	✓	Alamo EL: 13% | Dix EL: 15% | Washington EL: 14% High School: 44% | Middle School: 29.4%	136
Outlook Academy	✓		✓	✓	✓	50%	0
Plainwell Community Schools	✓	✓€	✓	✓	✓	33%	7
Saugatuck Public Schools	✓	✓	✓	✓	✓	Douglas Elementary: 30% Middle School: 44% | High School: 62%	26
St. Mary's Visitation**		✓	✓	✓	✓		2
St. Margaret School ǂ, ◊			✓				0
St. Stanislaus School ǂ, ◊			✓				0
St. Therese Catholic School	✓	✓	✓	✓	✓	Students: 14% | Staff: 63%	7
Wayland Union Schools	✓		✓	✓	✓	Grade 0-5: 11% | Grade 6-8: 31% |Grade 9-12: 37%	98

§ Following universal masking for Washington Elementary students until February 02, 2022
€ Following universal masking for K-12 schools until
**Data is insufficient for calculating percent vaccinated
ǂ Did not receive information in the ACHD 21-22 Back to School Survey
◊ Did not receive roster information to calculate percent vaccinated

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

Data for Number of Cases is the current number of cases in that district as of 01/24/22. 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 01/11/22.

Schools have an obligation to cooperate with public health investigations of cases and contacts identified within the student population per R. 325.174(2), that specifies:
(2) An investigator who presents official identification of the local health department or the department shall promptly be provided with medical, epidemiologic, and other information pertaining to any of the following:
Individuals who have designated conditions or other conditions of public health significance.
Individuals, whether ill or well, who are part of a group in which an unusual occurrence, outbreak, or epidemic has occurred.
Individuals who are not known to have a designated condition but whose medical or epidemiological information is needed for investigation into the cause of the occurrence of the condition.
Individuals who were potentially exposed to a designated condition.

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	0	0	0	0	0	638
AAESA	Hillside	8	5	6	2	4	124
Allegan	Allegan HS	4	3	0	4	0	581
Allegan	Dawson El	0	0	0	0	0	284
Allegan	LE White MS	0	0	0	0	0	492
Allegan	Pine Trails El	7	7	7	0	7	347
Allegan	West Ward El	0	0	0	0	0	234
Fennville	Fennville El	20	0	11	9	0	551
Fennville	Fennville MS	9	0	7	2	0	310
Fennville	Fennville HS	14	0	5	9	0	421
Glenn	Glenn	20	20	4	16	4	33
Hamilton	Bentheim El	0	0	0	0	0	234
Hamilton	Blue Star El	15	15	0	15	0	233
Hamilton	Hamilton El	0	0	0	0	0	356
Hamilton	Hamilton HS	64	64	7	57	7	798
Hamilton	Hamilton MS	107	107	0	107	0	821
Hamilton	Sandyview El	0	0	0	0	0	98
Hopkins	Hopkins El	0	0	0	0	0	397
Hopkins	Hopkins HS	22	0	17	5	0	522
Hopkins	Hopkins MS	0	0	0	0	0	369
Hopkins	Sycamore El	0	0	0	0	0	251
Martin	Brandon El	0	0	0	0	0	288
Martin	Martin HS	0	0	0	0	0	331
Martin	Martin MS	0	0	0	0	0	
Charter	Innocademy	26	26	0	26	0	87
Charter	Outlook	0	0	0	0	0	44

This data is the identified current close contacts by each school building on **1/24/2022**. **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	0	0	0	0	0	452
Plainwell	Plainwell MS	0	0	0	0	0	645
Saugatuck	Douglas El	54	27	29	25	27	345
Saugatuck	Saugatuck HS	10	8	4	6	3	264
Saugatuck	Saugatuck MS	13	9	12	1	8	206
Wayland	Baker El	106	106	80	26	106	318
Wayland	Dorr El	38	38	5	33	28	396
Wayland	Pine St. El	77	77	2	75	77	405
Wayland	Steeby El	14	14	0	14	14	241
Wayland	Wayland HS	0	0	0	0	0	825
Wayland	Wayland MS	231	231	41	190	202	684
Non-Public	East Martin	0	0	0	0	0	
Non-Public	Moline Christian	0	0	0	0	0	
Non-Public	St. Margaret's	0	0	0	0	0	
Non-Public	St. Mary's	3	2	3	0	0	
Non-Public	St. Stanislaus	0	0	0	0	0	
Non-Public	St. Therese	0	0	0	0	0	
Non-Public	Holland Christian	18	18	0	18	0	

This data is the identified current close contacts by each school building on **1/24/2022**. **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)
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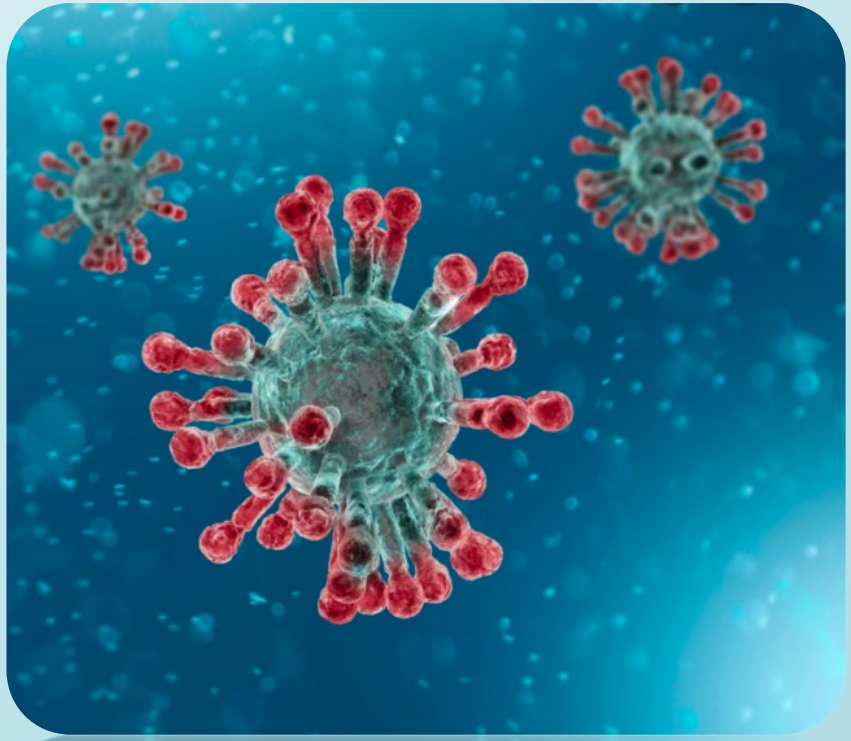
- **Total Student Population:** numbers are from the 2020-2021 school year from MI School Data. Please note this does not include staff numbers. Private schools were not available at the time of publication.

Upcoming: ACHD anticipates to publish updated School Quarantine Guidance by 1/12/2022

CDC K-12 Guidance (updated 1/6/2022)

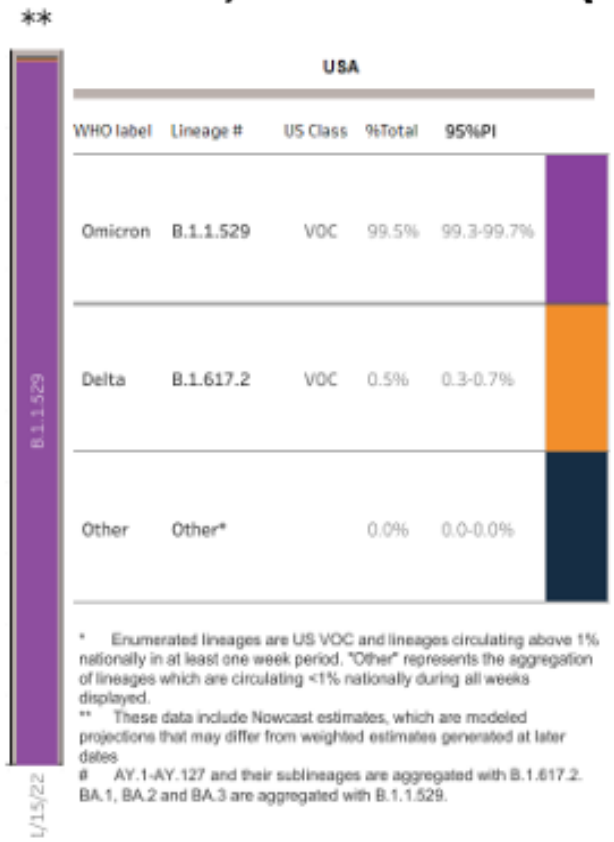
MDHHS Guidance for Managing Exposures in K-12 Setting (updated 1/10/2022)

Science Round Up: School Related Data



Identified COVID-19 Cases Caused by Variants of Concern (VOC) in US and Michigan

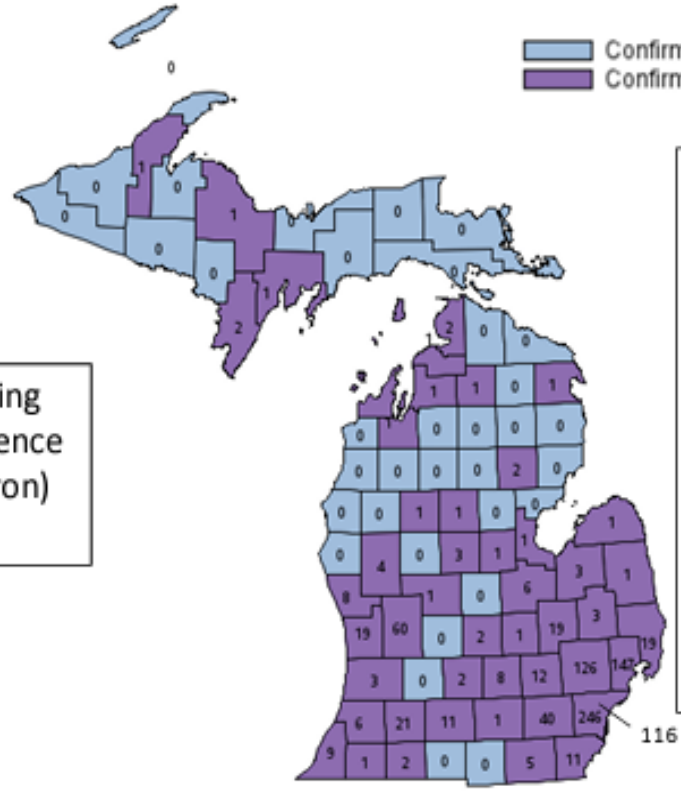
SARS-CoV-2 Variants Circulating in the United States, Jan 9 – Jan 15 (NOWCAST)



* Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during all weeks displayed.
** These data include Nowcast estimates, which are modeled projections that may differ from weighted estimates generated at later dates
# AY.1-AY.127 and their sublineages are aggregated with B.1.617.2. BA.1, BA.2 and BA.3 are aggregated with B.1.1.529.

Currently, CDC is reporting rapid increase in prevalence of B.1.1.529 (i.e., Omicron) over past 7 weeks

Variants of Concern in Michigan, Jan 14



- CDC reclassifies variants as epidemiology shifts
- Variants are downgraded when there has been a significant and sustained reduction in prevalence, or variant no longer poses significant risk to public health
- Cumulative numbers of Delta are no longer included in county counts; solely counts of Omicron cases are listed here

116 Omicron cases in Wayne County attributed to Detroit City

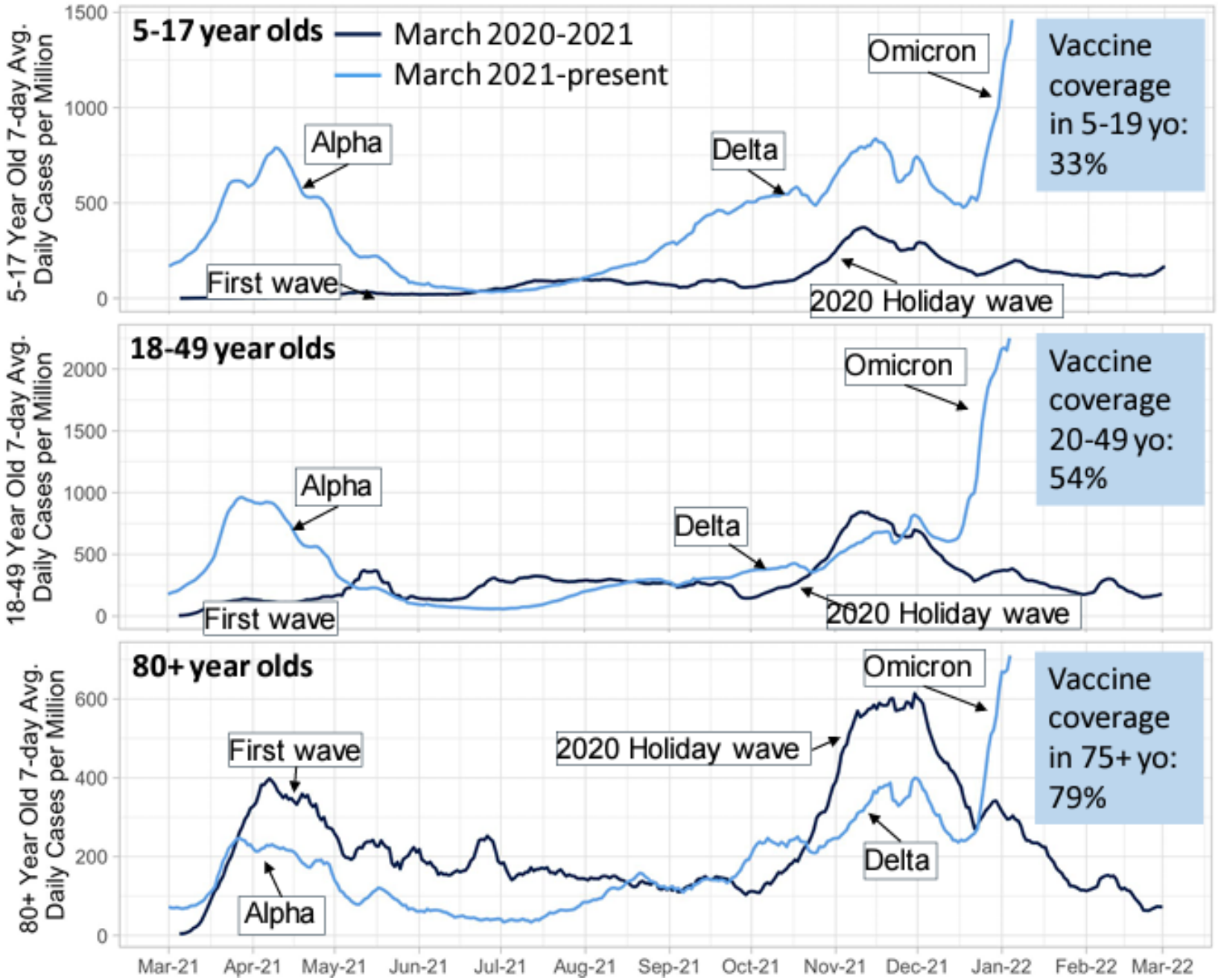
Variant	MI Reported Cases	# of Counties	MDHHS VOC Sequenced Prev. ¶
B.1.617.2 (delta)	30,626	83	11.5%
B.1.1.529 (omicron)	840	48	88.5%

Data last updated Jan 18, 2022
Source: MDSS
¶ Sequence specimens are from the most recent week by onset date which may change as more specimens are sent in

Source: https://www.michigan.gov/documents/coronavirus/20211102_Data_and_modeling_update_vFINAL_740237_7.pdf

Year-over-year comparisons by age group

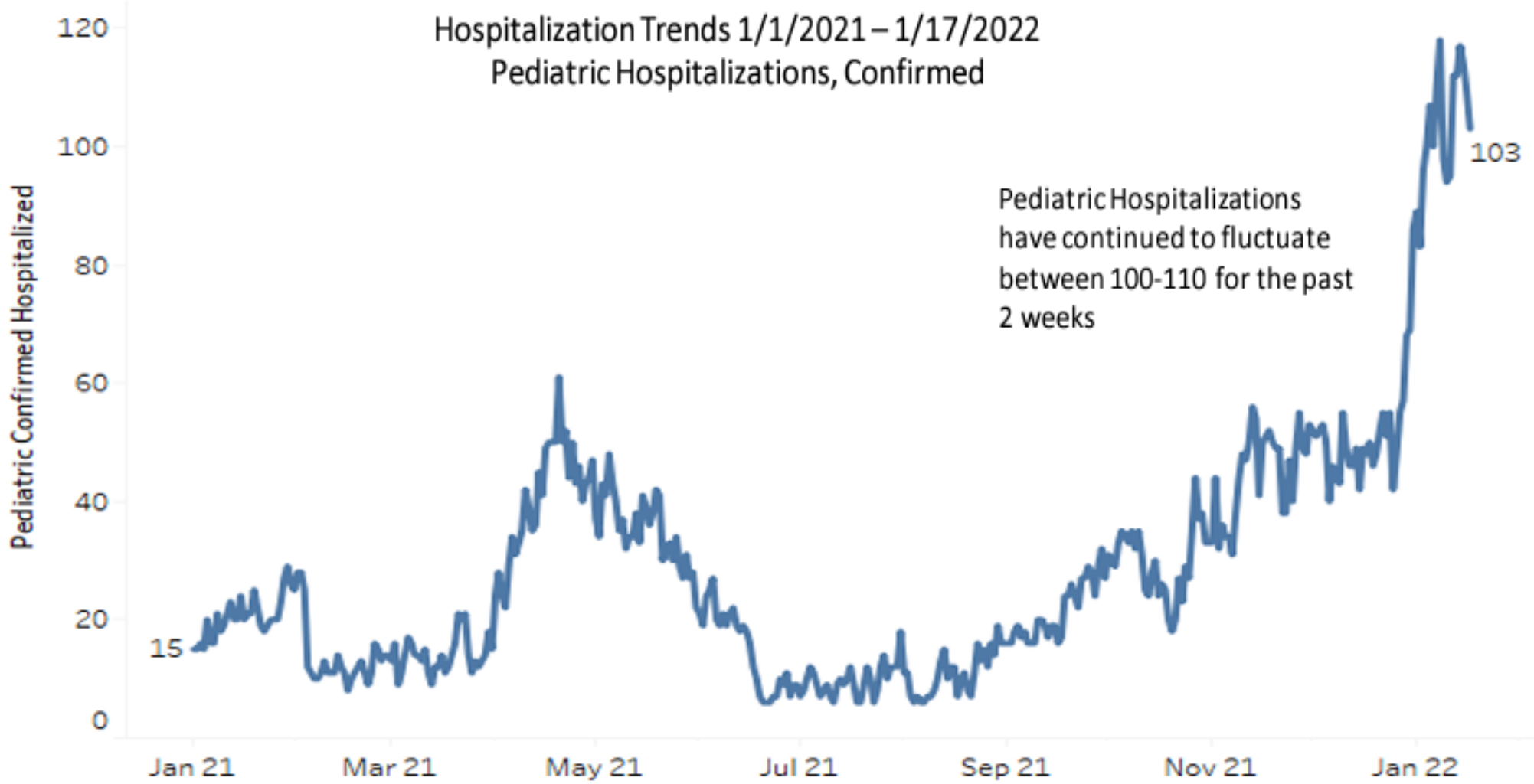
- All age groups are seeing their highest case rates of the entire pandemic
- Older age groups have higher vaccine coverage and relatively lower case rates



Source: MDSS and MCIR data

Source: https://www.michigan.gov/documents/coronavirus/20211102_Data_and_modeling_update_vFINAL_740237_7.pdf

Statewide Hospitalization Trends: Pediatric COVID+ Census



Source: https://www.michigan.gov/documents/coronavirus/20211102_Data_and_modeling_update_vFINAL_740237_7.pdf

Some masks and respirators offer higher levels of protection than others

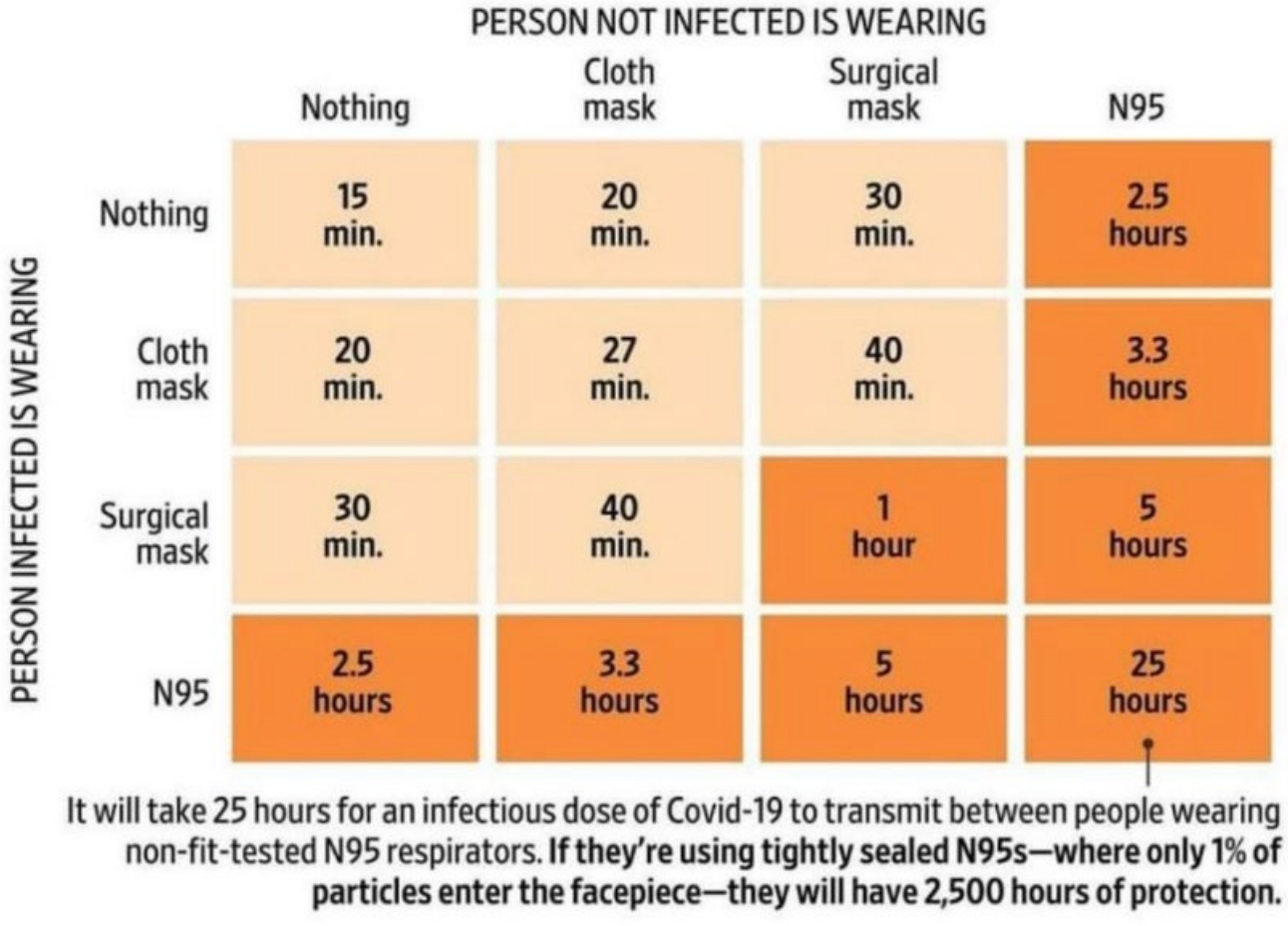
Masks and respirators are effective at reducing transmission of SARS-CoV-2, the virus that causes COVID-19, when worn consistently and correctly

- Masking is a critical public health tool for preventing spread of COVID-19, and it is important to remember that any mask is better than no mask
- Some masks and respirators offer higher levels of protection than others, and some may be harder to tolerate or wear consistently than others. It is most important to wear a well-fitted mask or respirator correctly that is comfortable for you and that provides good protection
- While all masks and respirators provide some level of protection, properly fitted respirators provide the highest level of protection. Wearing a highly protective mask or respirator may be most important for certain higher risk situations, or by some people at increased risk for severe disease

Source: https://www.michigan.gov/documents/coronavirus/20211102_Data_and_modeling_update_vFINAL_740237_7.pdf

Why Cloth Masks Might Not Be Enough as Omicron Spreads

Time it takes to transmit an infectious dose of Covid-19



It will take 25 hours for an infectious dose of Covid-19 to transmit between people wearing non-fit-tested N95 respirators. **If they're using tightly sealed N95s—where only 1% of particles enter the facepiece—they will have 2,500 hours of protection.**

Note: Results published in Spring 2021. The CDC expects the Omicron variant to spread more easily.
Source: ACGIH's Pandemic Response Task Force

ACHD sent a Memorandum on 1/11/22 to Community and School Leaders requesting masking until this surge subsides and we are no longer in high community transmission.

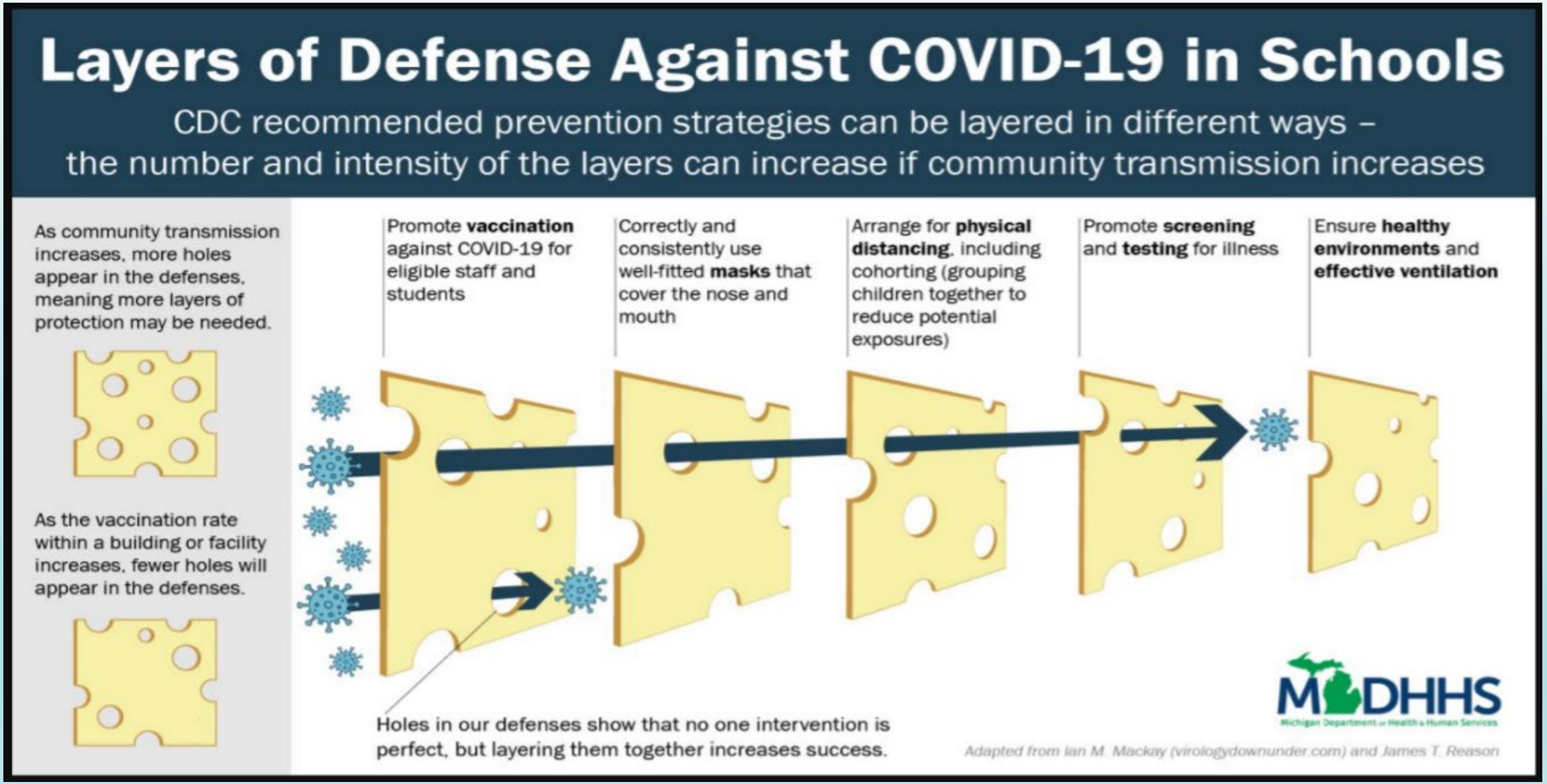
Upgrading masks is an important item to consider with the Omicron variant, as cloth masks are showing not being enough against Omicron. KN95 and N95 masks for adults and children are more readily available for purchase now compared to the early days in the pandemic. The figure to the left shows the time it takes to transmit an infectious dose of COVID-19 when an infected person is wearing a mask and a not infected person is wearing a mask. It will take 25 hours for an infectious dose of COVID-19 to transmit between people wearing non-fit tested N95 respirators.

Resources:

Mask Guide for Kids- Fall 2021

Masks for Kids

Mitigation Strategies for Schools



Source: https://www.michigan.gov/documents/coronavirus/20211102_Data_and_modeling_update_vFINAL_740237_7.pdf

HEALTH Department

Questions on the School Reports?

Please submit an inquiry form with your questions and your contact information.