



COVID-19 BOARD OF COMMISSIONER UPDATE

MARCH 8, 2022

DATA AS OF MARCH 4, 2022

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DATA AS OF MARCH 4, 2021

EXECUTIVE SUMMARY

The following report contains COVID-19 related data from February 19, 2022 to March 4, 2022 on the 5 mitigation components Allegan County Health Department (ACHD) previously identified. Test positivity and new weekly cases have been decreasing since January 25, 2022 in Allegan County. Allegan County is currently in a post-surge recovery phase.

On February 25, 2022, the Centers for Disease Control and Prevention (CDC) released a new framework to monitor the level of COVID-19 in communities that includes hospitalizations, hospital capacity, and cases and inform recommendations on prevention measures, like masking and testing. This new approach focuses on preventing hospitals and healthcare system from being overwhelmed and directing prevention efforts toward protecting people at high risk for severe illness.

Using this new framework, the CDC no longer recommends universal indoor mask wearing in [areas with a low or medium COVID-19 Community Level](#). The CDC is also not requiring that people [wear masks on buses](#) or vans operated by public or private school systems, including early care and education/child care programs in this [updated guidance](#). As of March 3, Allegan County is in a low COVID-19 Community Level.

With all the tools that are available, including at-home testing, COVID-19 vaccinations and treatment, the Allegan County Health Department (ACHD) is focusing on case investigation for all positive cases, and contact tracing in specific settings and groups at increased risk, such as long-term care facilities, correctional facilities, and COVID-19 cases involved in identified outbreaks or clusters. Read more from our March 4 Press Release [here](#).

The percentages of inpatient beds that are COVID-19 positive for both Grand Rapids Region and Kalamazoo Region are continuing to decrease; indicating an increase in hospital capacity. Now that the County has entered the post-surge recovery phase, ACHD has begun using this time to plan with community partners for our next surge with a particular focus on it being a vaccine resistant variant with higher mortality rates.

Long COVID – also known as long haul COVID, post-acute COVID-19, long-term effects of COVID, or chronic COVID is an area of the pandemic that we continue to monitor. Long COVID is common and broad in its impact on the body; prevalence and incidence estimates have ranged from [2%](#) to [75%](#). The American Academy of Physical Medicine and Rehabilitation uses an estimate of 30% on their [long COVID dashboard](#) - about **23.44 million Americans** currently experiencing long COVID. This illness is difficult to diagnose and study, but information on this burden will be important to understand as Long COVID will be a contributing factor on long-term public health outcomes for years to come. For more information, view [“Long COVID Miniseries” by Your Local Epidemiologist](#).

Currently ACHD has received an additional supply of masks and has KN95 masks available for pick up in the lobby of the Human Services Building, Monday through Friday from 8:30 am to 4:30 pm. ACHD has also collaborated with and distributed masks to local units of government and libraries in Allegan County willing to help distribute masks to residents. The organizations that have masks

COVID-19 Community Levels – Use the Highest Level that Applies to Your Community				
New COVID-19 Cases Per 100,000 people in the past 7 days	Indicators	Low	Medium	High
Fewer than 200	New COVID-19 admissions per 100,000 population (7-day total)	<10.0	10.0-19.9	≥20.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	<10.0%	10.0-14.9%	≥15.0%
200 or more	New COVID-19 admissions per 100,000 population (7-day total)	NA	<10.0	≥10.0
	Percent of staffed inpatient beds occupied by COVID-19 patients (7-day average)	NA	<10.0%	≥10.0%

The COVID-19 community level is determined by the higher of the new admissions and inpatient beds metrics, based on the current level of new cases per 100,000 population in the past 7 days

To find out the COVID-19 community level:

- First determine whether a county, state, or territory has fewer than 200 new cases per 100,000 people in the past 7 days or 200 new cases or more per 100,000 people in the past 7 days.
- Then, determine the level (low, medium, or high) for the new admissions and inpatient beds and indicators using the scale for the area's number for new cases.
- The COVID-19 Community Level is based on the higher of the new admissions and inpatient beds metrics.
- Check your county's [COVID-19 Community Level](#).

available can be found [here](#). ACHD encourages those in need of masks to [contact](#) these organizations for mask availability.

COVID-19 MITIGATION COMPONENTS



Allegan County COVID-19 Community Level: Low

Allegan County Health Department recommends everyone to:

Stay up to date on your COVID-19 Vaccines

Get tested if you have symptoms

Actions including social distancing, frequent handwashing, wearing a well-fitted face mask, and isolation/quarantine help lessen the level of transmission

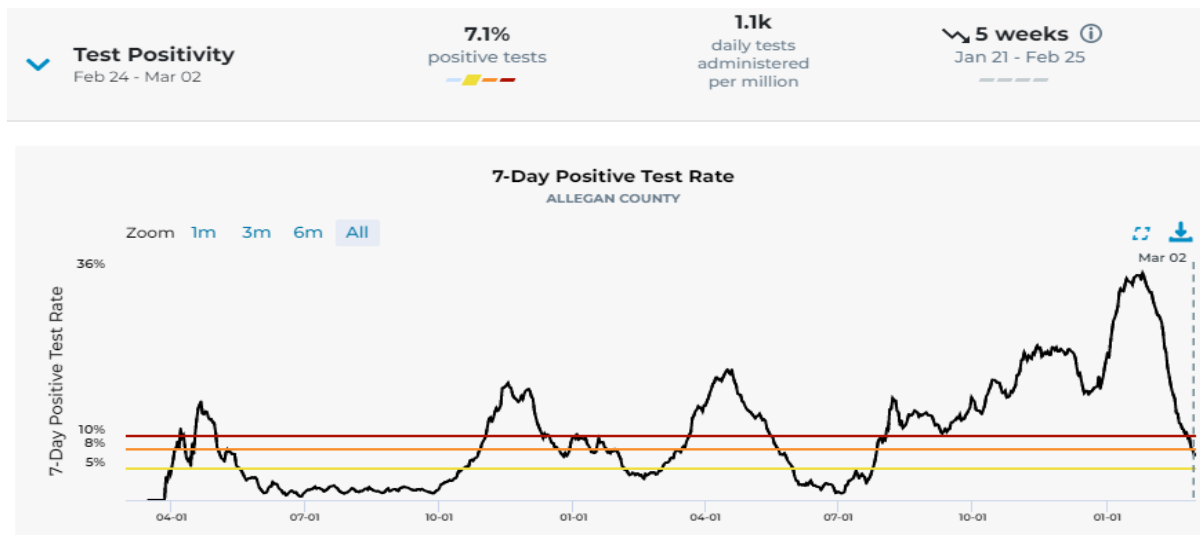
Learn more about CDC's COVID-19 Community Levels [here](#).

#DoYourPart

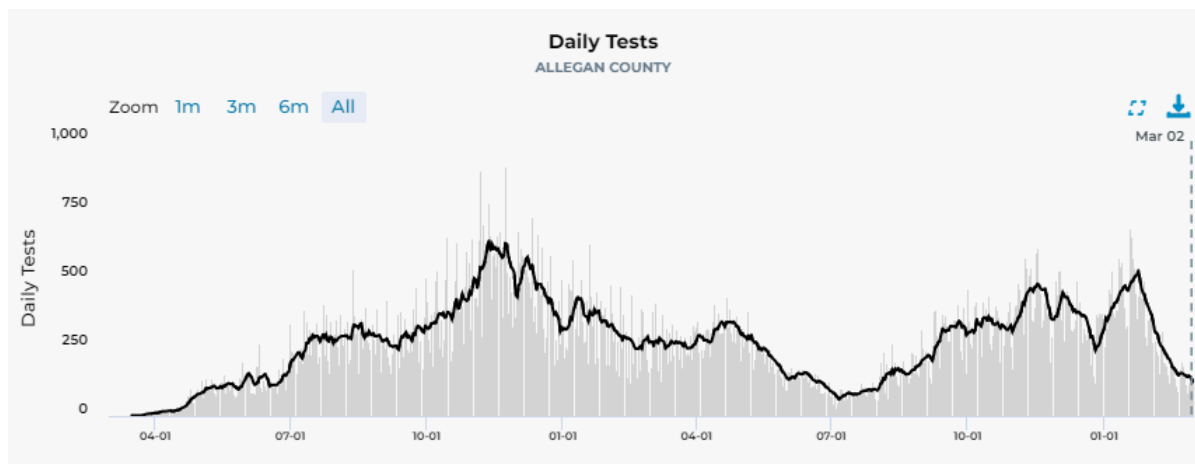
Allegan County currently is in a low community level for COVID-19. At this time, ACHD is encouraging residents to stay [up-to-date](#) on their COVID-19 vaccines and get tested if they develop symptoms.

ENHANCED ABILITY TO TEST

COUNTY LEVEL DATA



The Test Positivity Rate has now decreased by more than 50% in the last week for Allegan County. **Allegan County is currently at 7.1% 7-day positivity, with 1.1 k daily administered tests per million.**



TEST AVAILABILITY

On January 19, 2022, the Federal Government launched [covidtests.gov](https://www.covidtests.gov), where each household could get four free At-Home test kits. [As of January 15, 2022](#), private health insurers are required to cover up to eight At-Home COVID-19 diagnostic tests per month for each person covered by a health plan. More information related to insurance coverage of COVID-19 At-Home test kits found [here](#).

On March 1, 2022, it was announced that starting this week (3/8/22), Americans can order an additional set of 4 tests from [covidtests.gov](https://www.covidtests.gov). ACHD will be letting residents know that they are eligible to order additional tests by posting information on Facebook and in their monthly e-mail newsletter that goes out to over 26,000 residents.

Another way individuals can order free COVID-19 tests per household is through Project ACT. To check zip code eligibility, visit [AccessCovidTests.org](https://www.AccessCovidTests.org), call 888-535-6136 or contact 211. Qualifying zip codes will receive one free kit per household, containing five tests in a kit. Zip codes are routinely being added to the eligibility list.

Testing resources ebb and flow locally with demand in testing. When more virus is in the community, it is harder to get appointments locally related to demand is greater than supply/resources. With current testing levels, many people are not seeking testing.

If residents are struggling to find accessible testing, they can call ACHD at 269-673-5411 option 2 and we can help them navigate the systems.

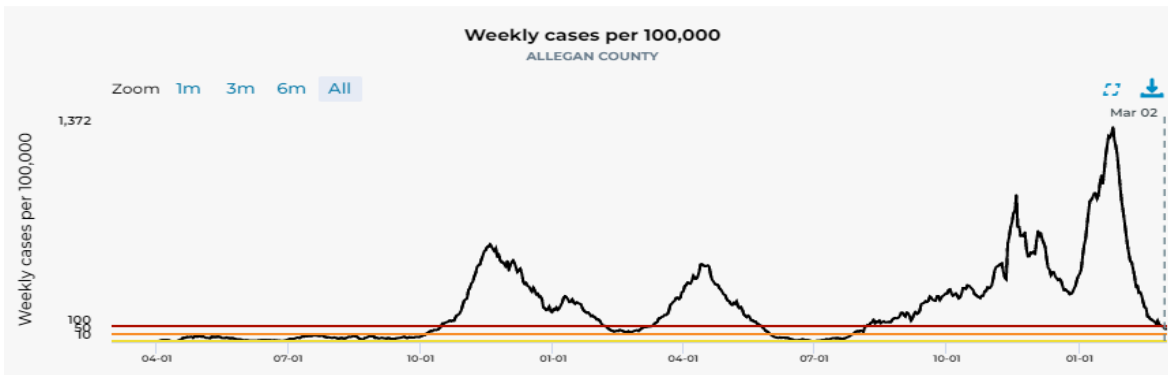
ROBUST CASE INVESTIGATION AND CONTACT TRACING

ALLEGAN COUNTY COVID-19 COMMUNITY LEVEL: LOW

New Cases
Feb 24 - Mar 02

84.7
weekly cases per 100,000 population

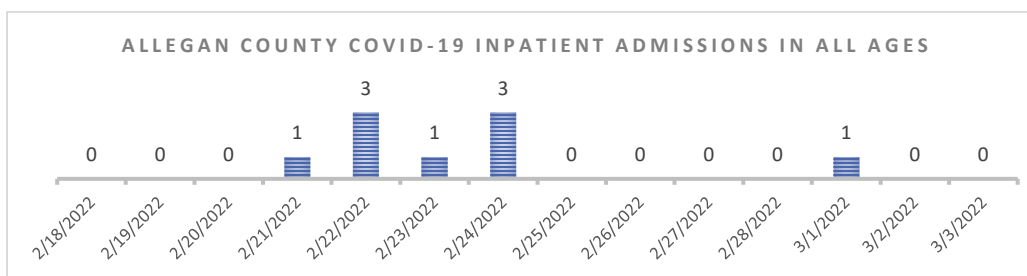
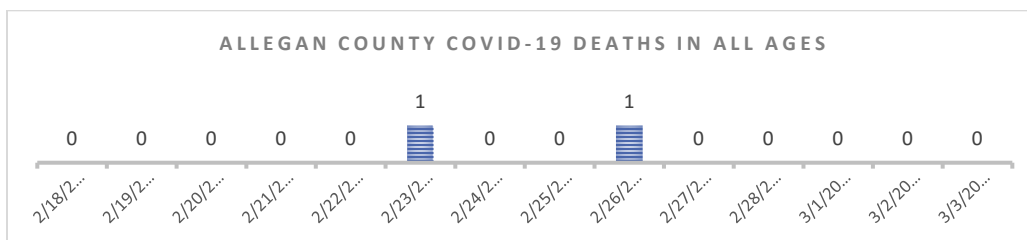
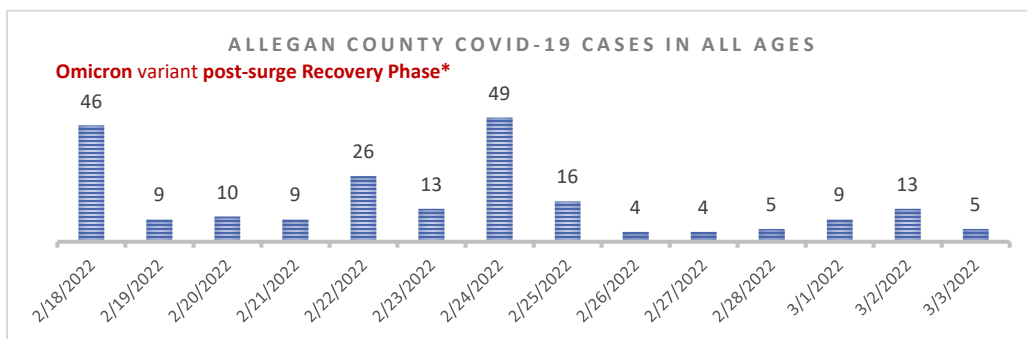
100
weekly cases



Allegan County has been in a high level of community transmission since early August 2021. Allegan County is now in a low COVID-19 community level based on new CDC framework, since February 24, 2022. **There has been a significant decrease in actual cases in the last two weeks. During the**

period 2/24/2022-3/2/2022, Allegan County's new case rate was 84.7 per 100,000. More than 50% decrease from the two weeks prior.

OVERVIEW OF COVID-19 CASES AND DEATHS IN THE LAST TWO WEEKS (02/18/2022 – 03/03/2022)



During 02/18/2022 to 03/03/2022:

218 total cases were reported via the Michigan Disease Surveillance System (MDSS) for Allegan County.

The highest number of cases were reported in 20 to 29 years of age.

The youngest inpatient admission was reported in 40 to 49 years of age.

All deaths related to COVID-19 were reported in individuals ages 50 and over.

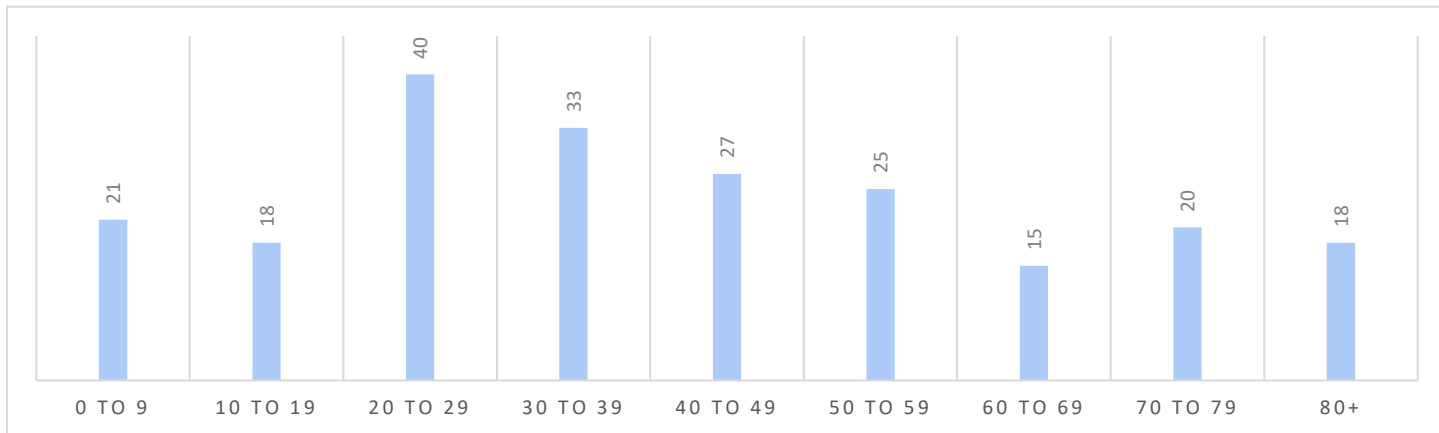
*As of 2/16/2022, MDHHS has released an update stating that Michigan is transitioning into a post-surge recovery phase.

CASE INVESTIGATION

DATA AS OF MARCH 4, 2022

ACHD is currently working to investigate all cases.

CASES IN THE LAST TWO WEEKS, BY AGE GROUP (02/18/2022 – 03/03/2022)



From 2/18/2022 to 3/3/2022, Allegan County had a reported **8.3% of investigated cases were household close contacts** – meaning they lived with someone who tested positive and later tested positive themselves. Notifying close contacts helps individuals know about an exposure and allows close contacts to make decisions that are more informed on their day-to-day lives. Individual case letters being sent ended 2/1/22 unless requested by an individual.

As reported in the Michigan Disease Surveillance System (MDSS) during this timeframe: **0.9% of cases were identified as community contacts** (meaning close contacts who were in a setting other than household), and **16.7% of cases were close contacts to those who worked or lived in a high-risk/congregate facility** in Allegan County.

218 cases reported in the MDSS from 2/18/2022 to 3/4/2022

EXPOSURE LETTERS AND CLOSE CONTACTS

On February 28, ACHD sent a memo to superintendents and board of education members letting them know that as of March 1, 2022 ACHD is moving from sending quarantine letters to sending potential exposure letters for COVID-19, similar to other communicable disease letters. Potential exposure letters will be given to individuals based on classroom and bus lists provided from schools. Quarantine might be required if there is an identified outbreak or ongoing spread in the facility. Recommendations regarding masking and quarantine may change as conditions evolve or Allegan County moves to a high Community Level, based on the new CDC framework. During future times of surge, additional access to testing resources, vaccination clinics, and therapeutic treatment may be made available as the situation warrants.

10 exposure letters were sent out as of 03/04/2022

WHY SHOULD PEOPLE CONSIDER QUARANTINE IF THEY WERE EXPOSED?

Quarantine separates and restricts the movement of people who were exposed to a contagious disease to see if they become sick. This helps people from unknowingly exposing or infecting others.

650 close contacts currently being monitored as of 03/04/2022

SUFFICIENT HEALTH CARE CAPACITY

DATA AS OF MARCH 4, 2022

LONG COVID-19

There is still a lot to study and learn from long COVID. Researchers are looking closely at patients with Long COVID and are finding traces of the virus traces in all types of different tissues, including the esophagus, thyroid, and spleen. Researchers are also looking at the toll COVID-19 takes on the body.

Prevalence and incidence estimates for long COVID have vastly ranged from [2%](#) to [75%](#). The American Academy of Physical Medicine and Rehabilitation uses an estimate of 30% on their [long COVID dashboard](#) - about **23.44 million Americans** currently experiencing long COVID. This illness is difficult to diagnose and study, but information on this burden will be important to understand as Long COVID will be a contributing factor on long-term public health outcomes for years to come. For more information, view [“Long COVID Miniseries” by Your Local Epidemiologist](#).

SYMPTOMS

Symptoms seem to depend on the time since infection and can also fluctuate. [2 in 5](#) people with long COVID don't have symptoms within the first 90 days. For many people, symptoms popped up randomly 3 months after infection. One [U.S. study noted](#), the most common symptoms in the first 90 days were different from the most common symptoms in the 90-180 days after infection.

COMPARISON TO OTHER VIRUSES

Three studies have compared the presence and symptoms of long COVID to post-viral influenza ([here](#), [here](#), [here](#)). All three found that long COVID is more common and more severe than post-viral influenza. In one U.S. [study](#), post-viral symptoms were 65% higher after SARS-CoV-2 than the flu.

HOSPITALIZATIONS

Allegan County falls in the Region 5 Health Care Coalition. Given the location of the county, some community members will access hospitals in the Region 6 Health Care Coalition (Grand Rapids-Holland Region). The chart below lists the hospitals that Allegan County community members may access for COVID and non-COVID related health needs and their current capacity levels.

The following figures show the current percentage of inpatient beds treating COVID-19 patients, for the Grand Rapids Region (Region 6), and Kalamazoo Region (Region 5). The Grand Rapids Region has **8.1%** of inpatient beds that are COVID-19 positive, and the Kalamazoo Region has **9.2%** of inpatient beds that are COVID-19 positive, as of March 2, 2022.

HOSPITALS IN THE ALLEGAN COUNTY AREA

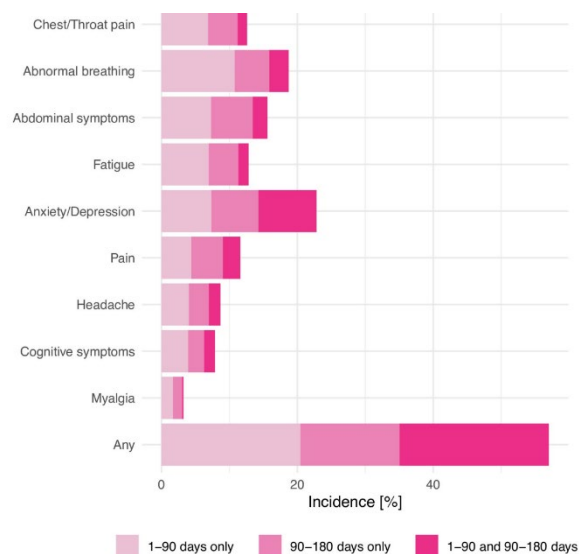
Note: Some smaller hospitals might not have ICU beds for COVID or non-COVID patients

As of **2/28/2022**

Hospital	COVID-19 Patients	COVID-19 Patients in ICU	Bed Occupancy %
Ascension Borgess Allegan Hospital	3	0	40%
Ascension Borgess Hospital	18	6	67%
Ascension Borgess-Pipp Hospital	0	0	59%
Bronson Methodist Hospital	32	1	84%
Bronson South Haven	0	0	50%
Holland Community Hospital	7	3	86%
Mercy Health Mercy Campus	35	9	76%
Mercy Health St. Mary's Main Campus	15	2	66%

DATA AS OF MARCH 4, 2022

Figure 1: Most common symptoms in the first 90 days were different from the most common symptoms in the 90-180 days after COVID-19 infection



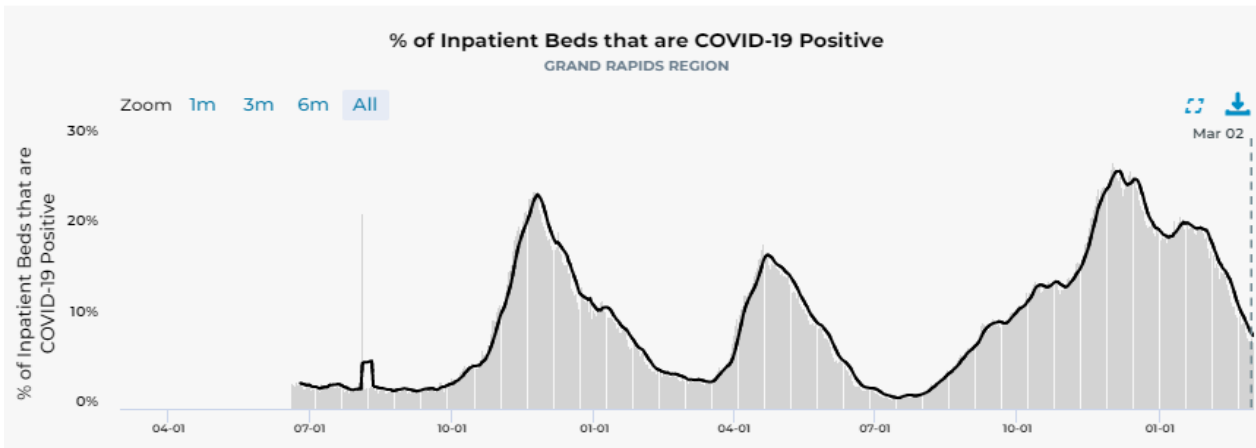
Metro Health Hospital	5	0	78%
Spectrum Health - Blodgett Hospital	24	8	87%
Spectrum Health - Butterworth Hospital	56	12	90%
Spectrum Health Zeeland Hospital	3	0	55%
Spectrum Helen DeVos Children's Hospital	6	0	77%

Hospital Capacity
Feb 24 - Mar 02

8.1% beds with COVID ⓘ

116.5 beds per million with COVID

1.5k beds per million (COVID + non-COVID)

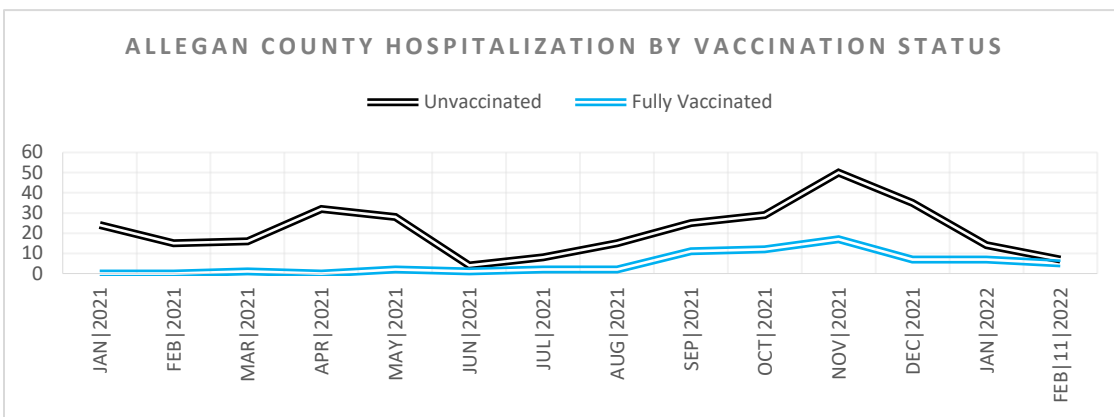
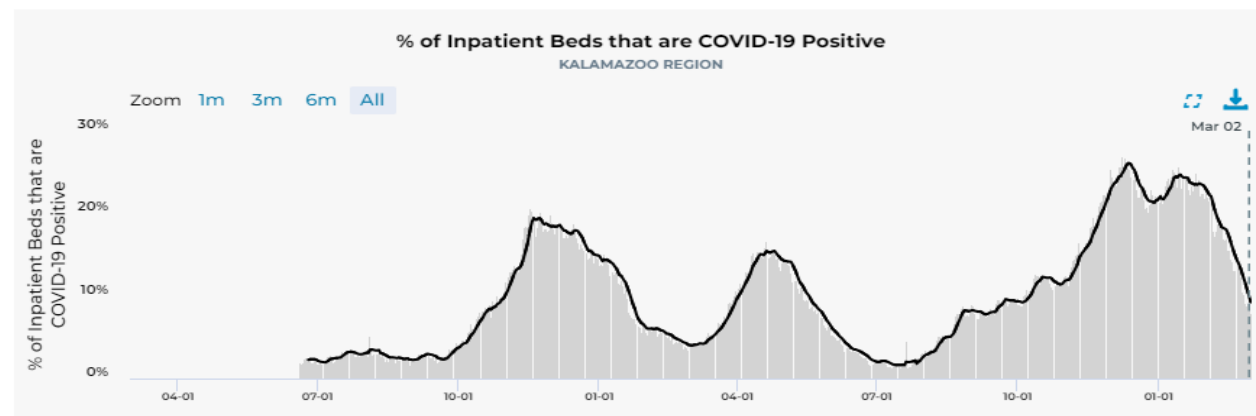


Hospital Capacity
Feb 24 - Mar 02

9.2% beds with COVID ⓘ

107.6 beds per million with COVID

1.3k beds per million (COVID + non-COVID)



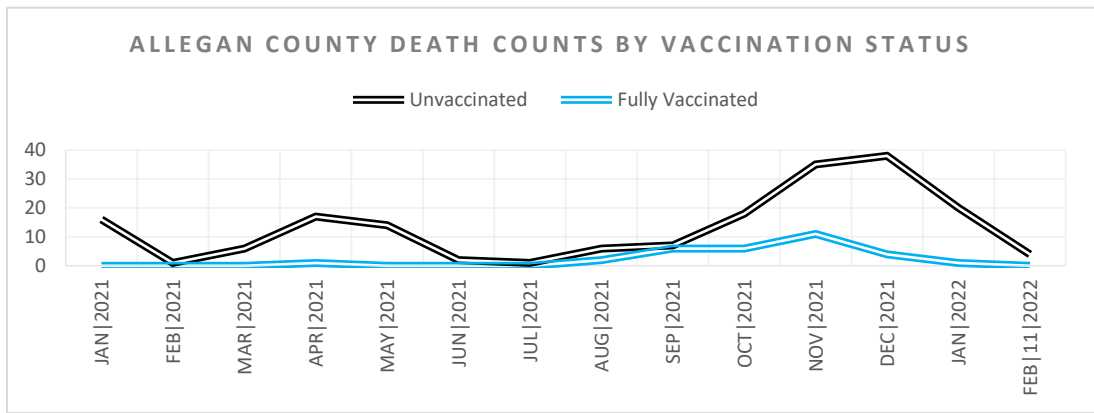
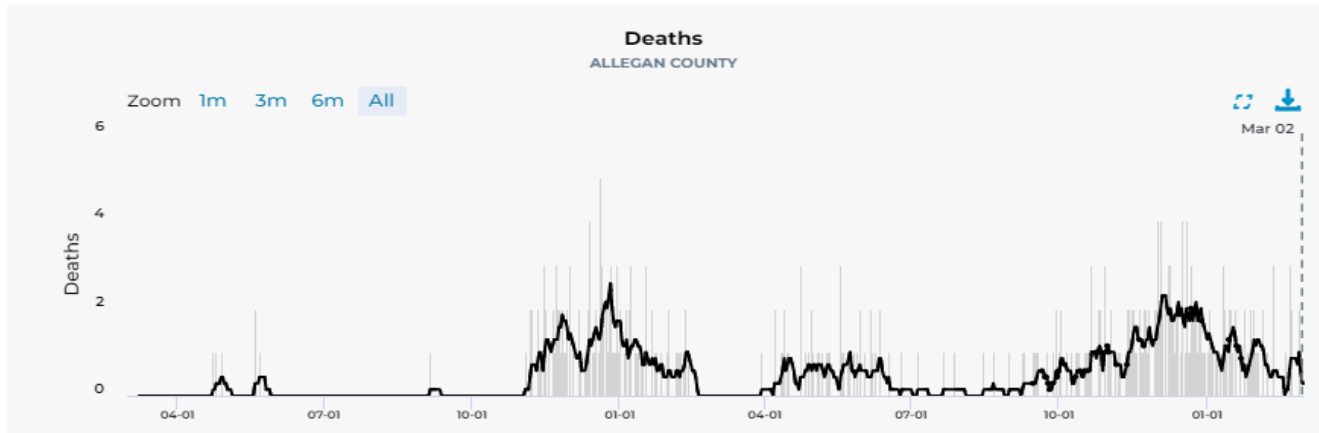
Vaccinations are effective at reducing hospitalizations from COVID-19. In Allegan County, 81.8% of the hospitalizations from 01/01/2021 to 02/11/2022 have been in those that are

unvaccinated.

DEATHS

Deaths
Feb 24 - Mar 02

0
daily deaths



Similarly, vaccinations are effective at preventing deaths from COVID-19. There were 85.8% of COVID-19 deaths identified in unvaccinated individuals in Allegan County from 01/01/2021 to 02/11/2022.

BEST PRACTICES

OUTBREAKS & CLUSTERS

The following table shows outbreaks that ACHD has identified for high-risk settings in Allegan County as of March 4, 2022. ACHD has not identified any new outbreaks related to schools since February 3, 2022. ACHD has not identified any new outbreaks in LTCF, businesses, or other congregate care facilities since February 17, 2022. ACHD reported 6 ongoing outbreaks on the March 3, 2022 Situation Report.

Type of Setting	Total Outbreaks
School	14
Business	8
Long Term Care	12
Other Congregate Facilities*	1

DATA AS OF MARCH 4, 2022

*Includes jails, correctional facilities and shelters

SCHOOLS

On February 16, Michigan statewide masking advisories lifted. Some districts will continue to require masking in schools.

The initiation of the [MI Backpack Home Test Program](#) by the Michigan Department of Health and Human Services (MDHHS) has made at-home antigen tests widely available to Michigan schools for the 2021-2022 school year. Schools districts can indicate their interest in participating in this program by completing the following survey: <https://forms.office.com/g/is9FYDMRzn>. For more guidance about at-home COVID-19 testing, please see: [Public Guidance for At-Home COVID-19 Testing](#)

On February 25, CDC released a new framework to monitor the level of COVID-19 in communities. Using this new framework, the CDC no longer recommends universal indoor mask wearing in [areas with a low or medium COVID-19 Community Level](#). The CDC is also not requiring that people [wear masks on buses](#) or vans operated by public or private school systems, including early care and education/child care programs in this [updated guidance](#). Allegan County is in currently in a low COVID-19 Community Level.

ACHD is working to update school guidance documents and quarantine recommendations to reflect this new framework and Allegan County currently being in low COVID-19 Community level. Updated documents will be posted to <https://www.allegancounty.org/health/covid-19/covid-19-school-resources>.

Given our low Community level, ACHD recommends people stay up to date with their vaccines, seek testing, and stay home if they are sick. Schools should continue to ensure increased ventilation, social distancing when possible, and enhanced cleaning. ACHD recommends that all individuals, regardless of vaccination status, should wear a mask during isolation and quarantine periods. [Making personal decisions](#) about mask use in certain settings is an important tool in mitigating the spread of COVID-19. Individuals, who feel sick, may be at high risk of infection, or who feel better protected when masked should choose to wear a mask to help mitigate the spread of COVID-19.

BUSINESSES

Since the start of the pandemic, ACHD has designated an individual to work with all businesses in Allegan County to provide technical assistance as needed when cases are identified in the workplace. As we transition to mandated services, ACHD will only be able to offer assistance when there is a cluster or outbreak. When a business calls, our front desk support staff will ensure they are connected with the CDC, MDHHS, or local health education information.

ACHD has created a Business Mitigation Strategies Survey for business to fill out and provide us information on what current mitigation strategies they have in place. Businesses can access the survey [here](#).

KN95 MASKS

Currently ACHD has received an additional supply of adult KN95 masks, which are available for pick up in the lobby of the Human Services Building; **Monday through Friday from 8:30 am to 4:30 pm**. ACHD also has distributed these masks to community partners in Allegan County such as local units of government and libraries. Child size KN95 masks have been requested and ACHD is awaiting shipment. ACHD is encouraging residents in need of masks to contact the following organizations:

ORGANIZATION NAME	ADDRESS	PHONE NUMBER
Salem Township Library	3007 142nd Ave, Burnips	(616) 896-8170
Leighton Township Library	4451 12th St, Wayland	(616) 877-4143
Fennville District Library	400 W Main St, Fennville	(269) 561-5050
Hopkins District Library	118 E Main St, Hopkins	(269) 793-7516
Wayland Township Hall	1060 129th Ave, Shelbyville	(269) 792-6394
Ganges Township Hall	1904 64th St, Fennville	(269) 543-8316
Allegan District Library	331 Hubbard St, Allegan	(269) 673-4625
Ransom District Library	180 S Sherwood Ave, Plainwell	(269) 685-8024

LONG TERM CARE & OTHER CONGREGATE CARE FACILITIES

An outbreak investigation is initiated when a resident at a Long Term Care Facility (LTC) is identified as a confirmed case of COVID-19. For correctional facilities, either a confirmed or probable COVID-19 case will prompt an outbreak investigation. MDHHS offers further support for facilities via the Infection Prevention and Resource Assessment Team (iPRAT) when ACHD identifies facilities that are experiencing a large outbreak. As of March 4, 2022, ACHD has connected three LTC facilities in Allegan County with the iPRAT-Team for additional mitigation assistance.

49 resident deaths and 432 resident cases have been reported from January 1, 2020 to March 1, 2022.

The information above represents COVID-19 data reported directly to MDHHS by licensed and operating Skilled Nursing, Home for the Aged and Adult Foster Care facilities (licensed to serve 13 or more individuals) in Michigan from January 1, 2020 through March 1, 2022.

According to statewide data*, the case counts reported in both residents and staff are trending downwards in both Adult Foster Care (AFC)/Home for the Aged (HFA) and Skilled Nursing Facilities (SNF). Cases within Long Term Care Facilities (LTCFs) continue to be higher among staff than for residents.

*The data is from weekly reporting by facilities with bed occupancy of at least 13 beds.

COMMUNICATIONS

COVID Health Education has been a prioritized effort in this response. There is a lot of information out there related to this response, including misinformation that is a challenge for Public Health to combat.

The following are metrics related to communication efforts from 2/19/2022 – 3/4/2022

- 9 social media posts
- 1 Provider Update
- 10 Education materials
- 4 Guidance Documents updated
- 3 surveys developed

PARTNERSHIPS DURING 2/19/22 – 3/4/22

DATA AS OF MARCH 4, 2022

ACHD has built partnerships with a variety of sectors over the past 2 years. Below is a two-week snapshot of partnerships

- Collaborated with 8 local units of Government and Libraries to distribute KN95 masks to the public.
- Continued to work with with HONU Management Group to provide testing in Allegan County. From 2/19/22 to 3/4/22, 27 tests were collected and 1 was positive for COVID-19.
- Currently planning with NexGen around testing events to provide to the community if we see another spike in cases and there is a need for testing in the community.
- Working with Emergency Management team in the planning of an After Action Report for COVID-19 response, including developing a survey for the community to received insightful feedback on how to improve processes in the future.

COMMUNITY VACCINATION/HERD IMMUNITY/TREATMENT

ANTIVIRAL, MONOCLONAL ANTIBODY TREATMENTS, ETC.

COVID-19 therapeutics are authorized for those who meet select high-risk criteria. Vaccinations remain the best way to protect against COVID-19. Individuals are encouraged to talk to their healthcare provider about whether they should get antibody or antiviral treatment. Monoclonal antibody treatment and antiviral medication are widely available across the state for residents who are in need. Antiviral medication prescribed by healthcare providers for the treatment of COVID-19:

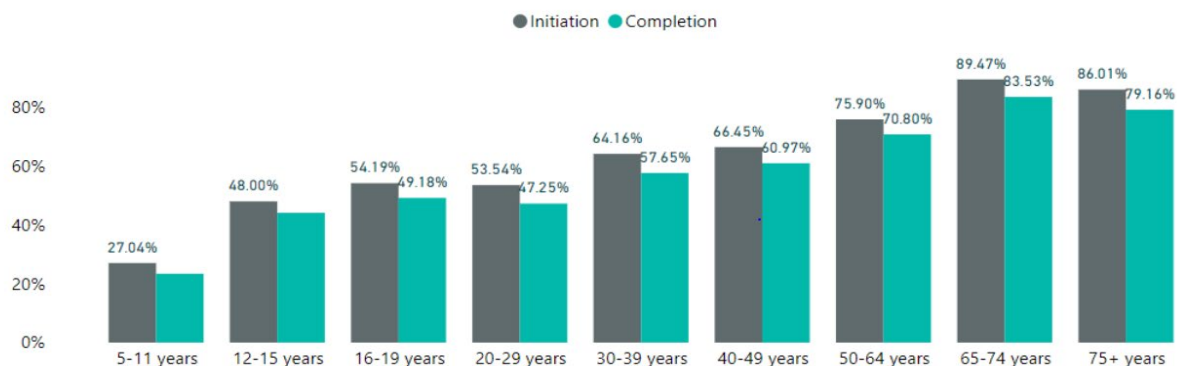
Paxlovid is available at select pharmacies across the state including [47 Michigan Meijer locations](#).

Monlunpiravir is available at all Meijer locations in Michigan and several other pharmacies.

For more information on treatment options such as antiviral medication and MAB Therapy, residents are encouraged to visit: www.michigan.gov/covidtherapy

COVID-19 VACCINE COVERAGE BY AGE GROUP

As of 3/1/2022



DATA AS OF MARCH 4, 2022

Residents age 50+ have the highest percentage of vaccination, with these individuals meeting the 70% vaccination goal. Low vaccine rates seen in young children and adolescents may be attributed to the fact that emergency use was not authorized for this cohort until later on.

VACCINE AVAILABILITY

Vaccine availability remains high as pharmacies, doctor’s offices, and health care systems are administering vaccines. ACHD will have vaccine appointments available for vulnerable populations or children in the Vaccine for Children program.

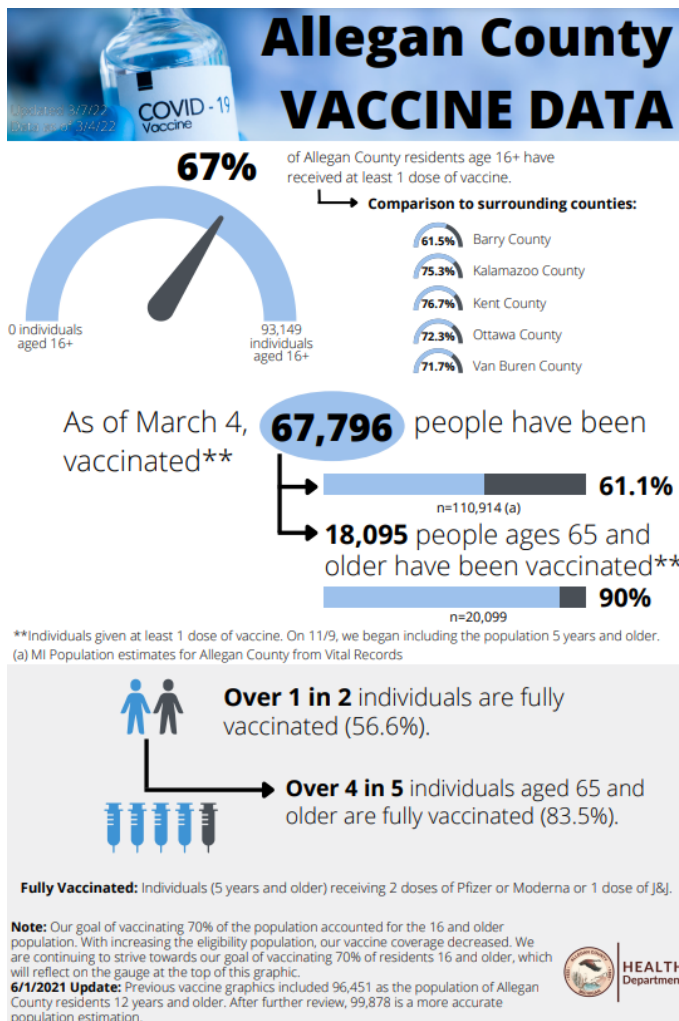
Residents are encouraged to visit www.vaccinefinder.org and www.vaccinatewestmi.com in order to find vaccination clinics near them.

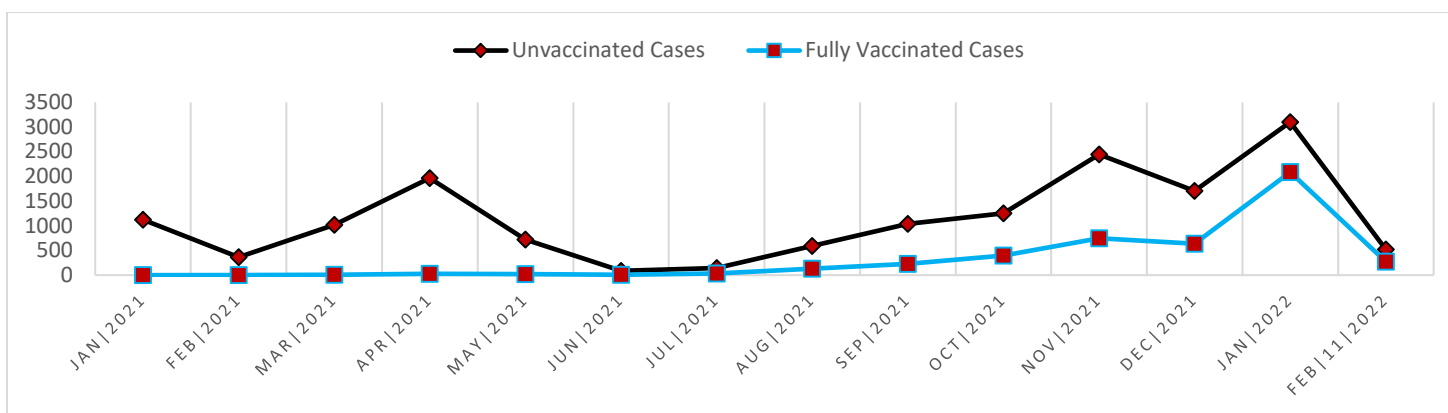
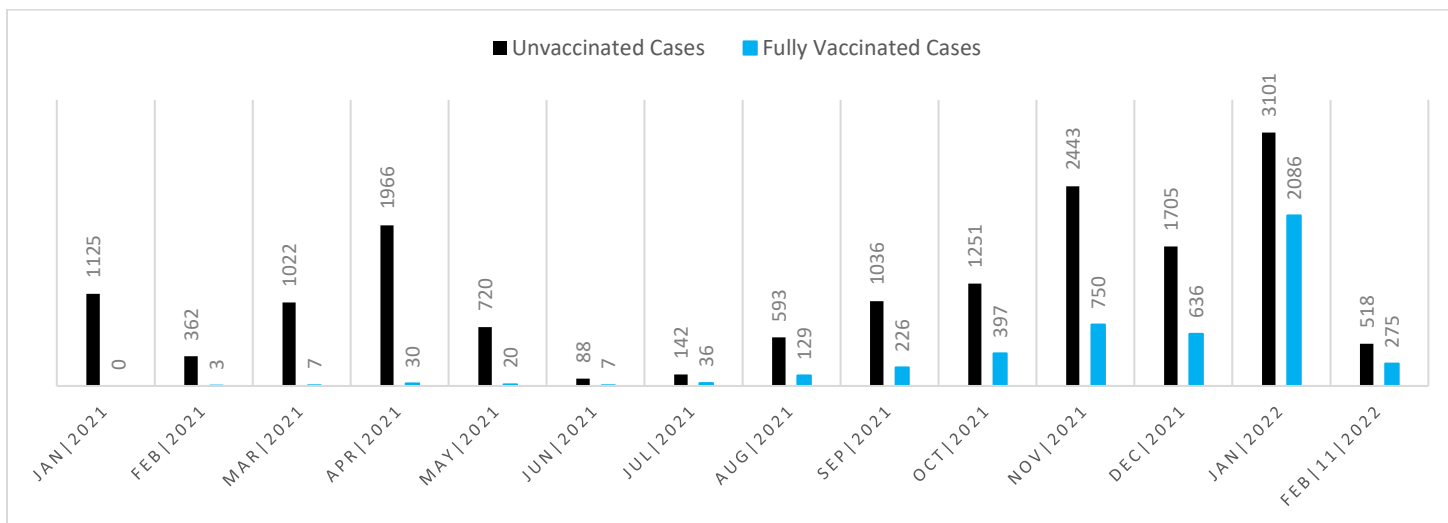
ACHD is working with businesses and organizations to offer support and/or vaccination clinics if there is an outbreak detected and assistance needed.

Due to not meeting our goal of 70% of the eligible population (aged 16 years and older) receiving at least one dose of vaccination, we are looking at strategies for 2022 that we can implement to increase vaccination rates in Allegan County to reach this 70% goal. With the help of our CDCF health educators, we will be looking at conducting focus groups to get a better understanding of factors that are contributing to vaccine hesitancy in our lower coverage populations, as well as working with students in schools to develop PSAs on COVID education and misinformation.

EFFECTIVENESS

ALLEGAN COUNTY UNVACCINATED AND FULLY VACCINATED COVID-19 CASES BY REFERRAL DATES 01/01/2021 TO 02/11/2022





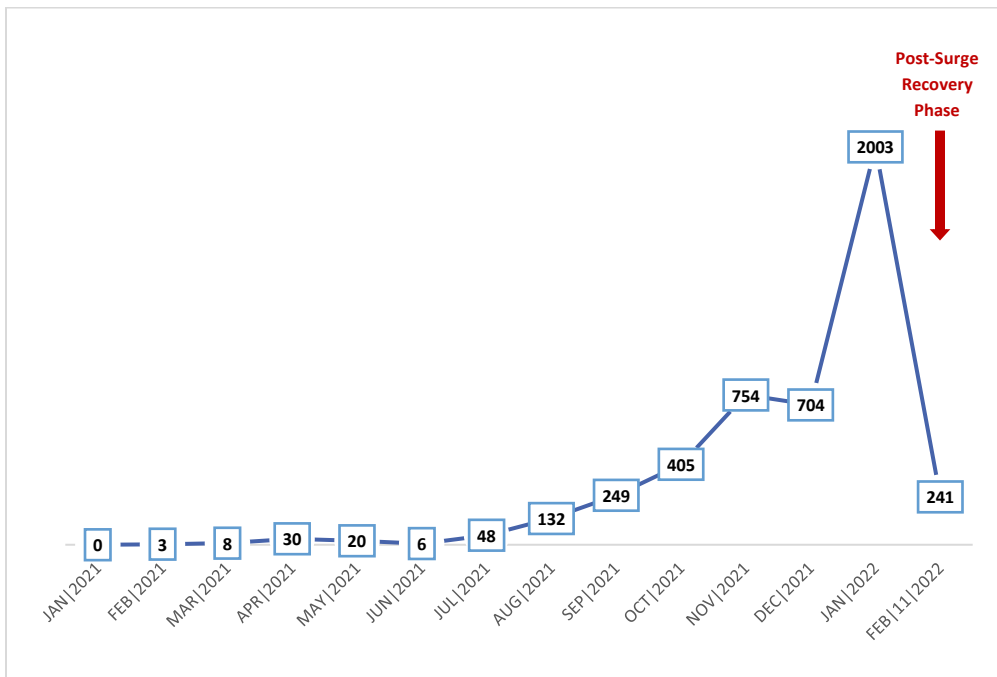
When comparing fully vaccinated cases to unvaccinated cases, it is important to note that unvaccinated cases are more likely to occur even though fully vaccinated cases have increased since July 2021. As you can see in the charts, the unvaccinated (black line) have more cases compared to the fully vaccinated (blue line).

ACHD continues to monitor breakthrough data as it may not be provided on a local level.

AS OF FEBRUARY 11, 2022:

- There were 350 cases in the 0 to 18 age group who were persons who met the CDC-definition of being 'fully vaccinated' or 'breakthrough case' related to SARS-CoV-2 infection.
- 7.4% of cases (including all ages) were reported as breakthrough cases.
- 5.4% of cases in the 0 to 19 age group were reported as breakthrough cases.
- All pediatric breakthrough cases were reported in ages 5 years old or over.
- There has been no hospitalizations or deaths related to SARS-CoV-2 infection reported in the 5 to 11 age group.
- There were 12 cases in the 0 to 19 age group with a specimen collection date \geq 14 days after receipt of an additional or booster dose of any COVID-19 vaccine on or after August 13, 2021.

OVERVIEW OF ALLEGAN COUNTY COVID-19 BREAKTHROUGH CASES AS OF FEBRUARY 11, 2022



As of February 11, 2022:
 There were 22.3% (4,605) fully vaccinated cases identified via the MDSS-MCIR match criteria by referral, onset, diagnosis, or specimen collection dates.

All pediatric breakthrough cases were reported in ages 5 and over.

The youngest fully vaccinated individual hospitalized related to SARS-CoV-2 infection was reported in the 20 to 29 age group.

Youngest fully vaccinated death related to SARS-CoV-2 infection was reported in the 50 to 59 age group.

UNDERSTANDING BREAKTHROUGH CASES

Allegan County Case Data by Vaccination Status ALL AGES

Since January 2021, there have been:

20,674 Total COVID-19 Cases	369 Total COVID-19 Hospitalizations	219 Total COVID-19 Related Deaths
Total COVID-19 cases not fully vaccinated 16,072 % of not fully vaccinated COVID-19 cases 77.7%	Total COVID-19 hospitalizations not fully vaccinated 302 % of not fully vaccinated COVID-19 hospitalizations 81.8%	Total COVID-19 deaths not fully vaccinated 188 % of not fully vaccinated COVID-19 deaths 85.8%
Total COVID-19 cases fully vaccinated 4,602 % of fully vaccinated COVID-19 cases 22.3%	Total COVID-19 hospitalizations fully vaccinated 67 % of fully vaccinated COVID-19 hospitalizations 18.2%	Total COVID-19 deaths fully vaccinated 31 % of fully vaccinated COVID-19 deaths 14.2%

Data from January 1, 2021 to February 11, 2022

Breakthrough cases are those persons who contract COVID-19 despite being fully vaccinated for the disease. They are more likely to occur in those who are older, those who have compromised immune systems, and those who are more exposed to COVID-19 (such as at work or school). It is important to understand that the chances that an unvaccinated person and a vaccinated person catching COVID-19 from an exposure are not the same. Vaccinated people are less likely to contract the disease, and are less infectious if they do contract it. Among breakthrough cases, vaccines ensure less infectious viral particles for a shorter period.

SOURCES

- <https://mistartmap.info/cdc-indicators>
- Allegan County Health Department Facebook page
- www.michigan.gov/covidvaccine
- Michigan Disease Surveillance System (MDSS)
- HONU
- [FDA](https://www.fda.gov/)
- Michigan Department of Health and Human Services (MDHHS) Breakthrough Cases Data File
- [CDC](https://www.cdc.gov/)
- [MI Backpack Home Test Program](#)
- [Long Term Care Data](#)
- [COVID-19 Vaccine Dashboard](#)
- www.vaccinatewestmi.com
- www.vaccinefinder.org
- [CDC Stay Up-to-date on Vaccinations](#)
- CHN Associates, Student and Family Assistance Program Monthly Report