



Frederick County, Maryland

# Frederick County Board of Health

## December 30, 2021

**I. Call to Order** – Dr. Barbara Brookmyer, Health Officer for Frederick County

**II. COVID-19 Situation Update** – Dr. Barbara Brookmyer, Health Officer for Frederick County

**III. Discussion of Proposed Regulations**

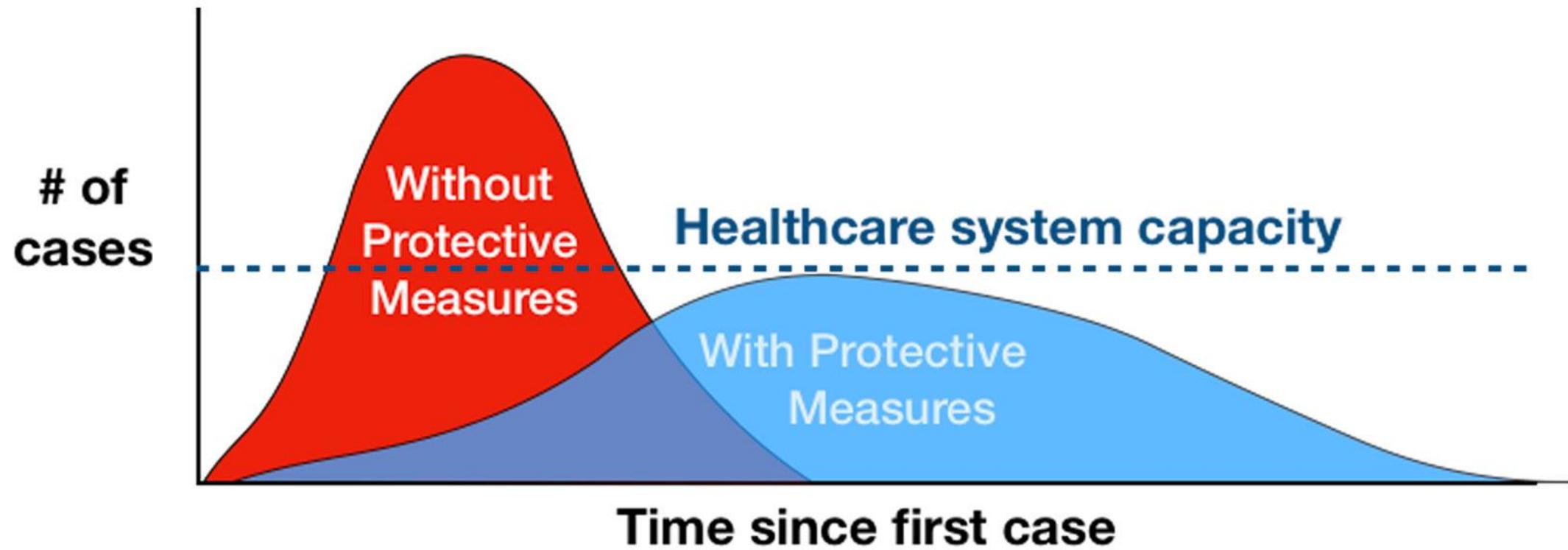
**IV. Public Comments**

**V. Board Decision**

**VI. Upcoming Meetings**

- May, 2022

**VII. Adjourn**



*Adapted from CDC / The Economist*

# About Coronaviruses

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- Common human coronaviruses
  - 229E
  - NL63
  - OC43
  - HKU1
- Sometimes coronaviruses that infect animals can evolve and make people sick and become a new human coronavirus.
  - MERS-CoV
  - SARS-CoV
  - 2019 Novel Coronavirus (2019-nCoV)

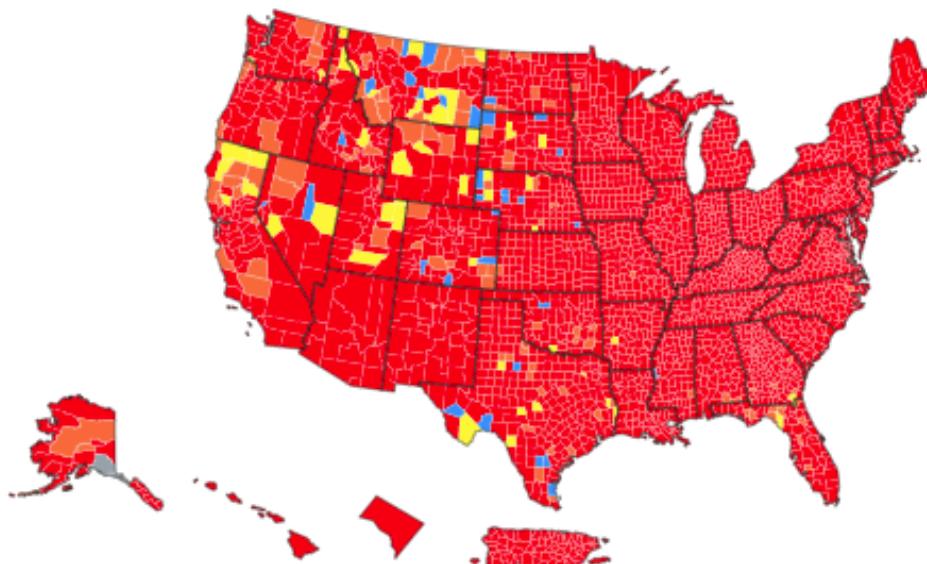


# Maryland COVID Data

- 12/30/2021 UPDATE: As of 12/29/2021, approximately 95 percent of state-level surveillance data are restored. MDH continues to work to reinstate the full COVID-19 dataset. [Vaccine data](#) and hospitalizations remain current as of 12/30/2021.
- MDH will pause COVID-19 reporting on Nov. 25 and 26; Dec. 24 and 25; and Dec. 31 and Jan. 1 in observance of the holidays. When reporting resumes, updates will include both the days encompassed in the pause and the standard 24-hour changes in metrics.



# CDC – Community Transmission Level



Community Transmission in US by County

	Total	Percent	% Change
High	2943	91.34%	8.94%
Substantial	158	4.9%	-5.74%
Moderate	71	2.2%	-3.04%
Low	46	1.43%	-0.16%

[How is community transmission calculated?](#)

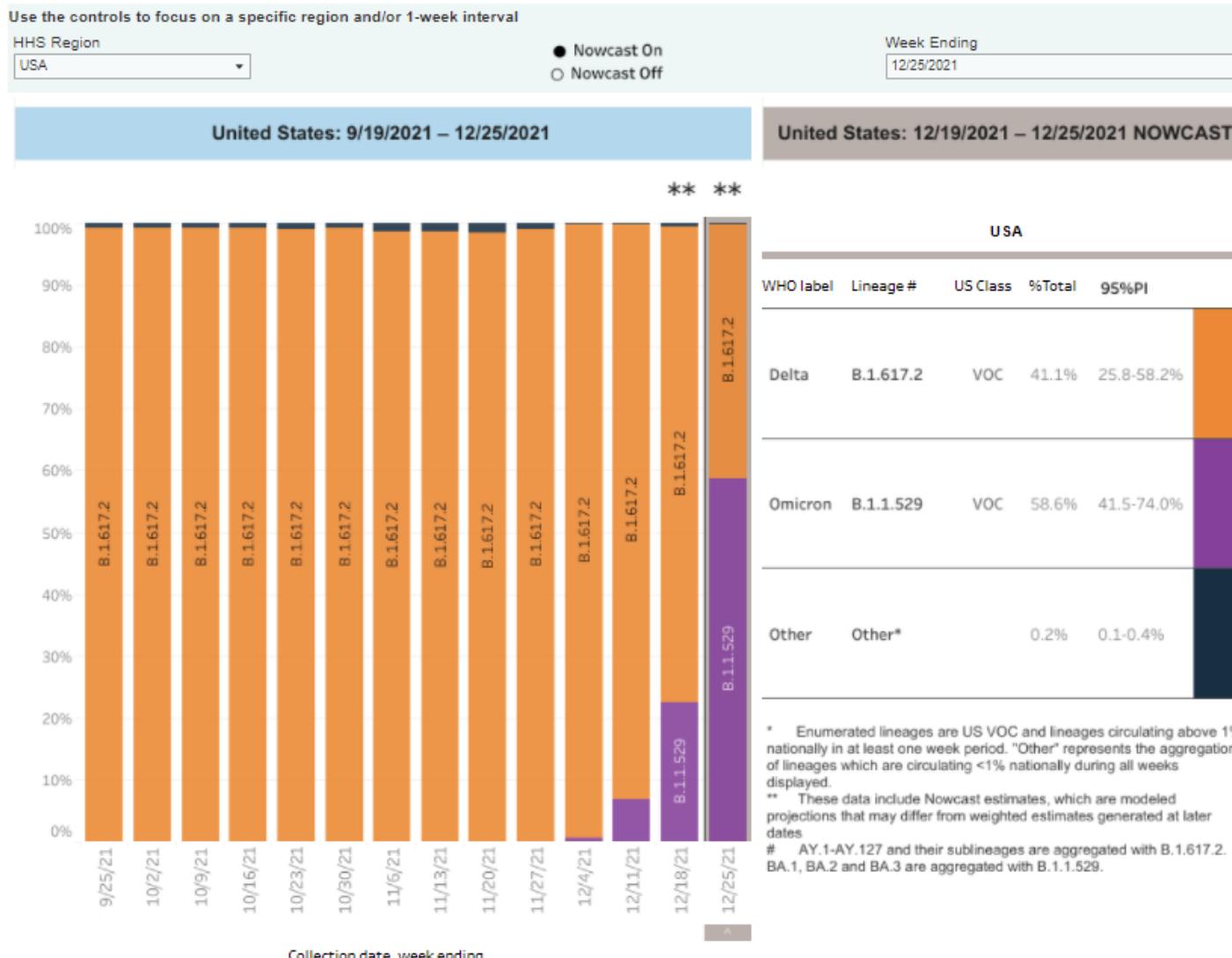
● High ● Substantial ● Moderate ● Low ● No Data

Current 7-days is Thu Dec 23 2021 - Wed Dec 29 2021 for case rate and Tue Dec 21 2021 - Mon Dec 27 2021 for percent positivity. The percent change in counties at each level of transmission is the absolute change compared to the previous 7-day period.



# CDC Nowcast Model Estimates Proportion Circulating Variants

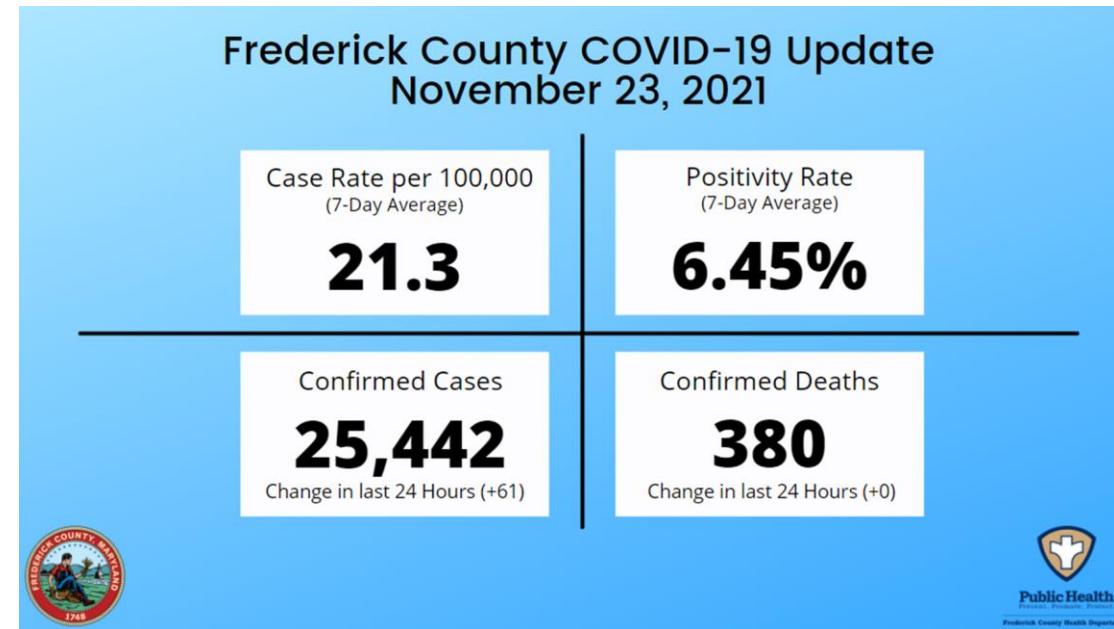
<https://covid.cdc.gov/covid-data-tracker/#variant-proportions>





Frederick County, Maryland

- November 23, 2021



- December 30, 2021



[FrederickCountyMD.gov/CovidStats](http://FrederickCountyMD.gov/CovidStats)



This data is updated daily around 7am.

3/23/2020

12/29/2021

### Frederick County Percent Positive Rate (7-Day Avg)

● Frederick ● State Wide

30%

20%

10%

0%

Positivity

Apr 2020

Jul 2020

Oct 2020

Jan 2021

Apr 2021

Jul 2021

Oct 2021

Positivity by Jurisdiction

Frederick County Seal

### Frederick County Case Rate per 100K (7 Day Moving Average)

● Frederick ● State Wide

200

150

100

50

0

Case Rate per 100K

Apr 2020

Jul 2020

Oct 2020

Jan 2021

Apr 2021

Jul 2021

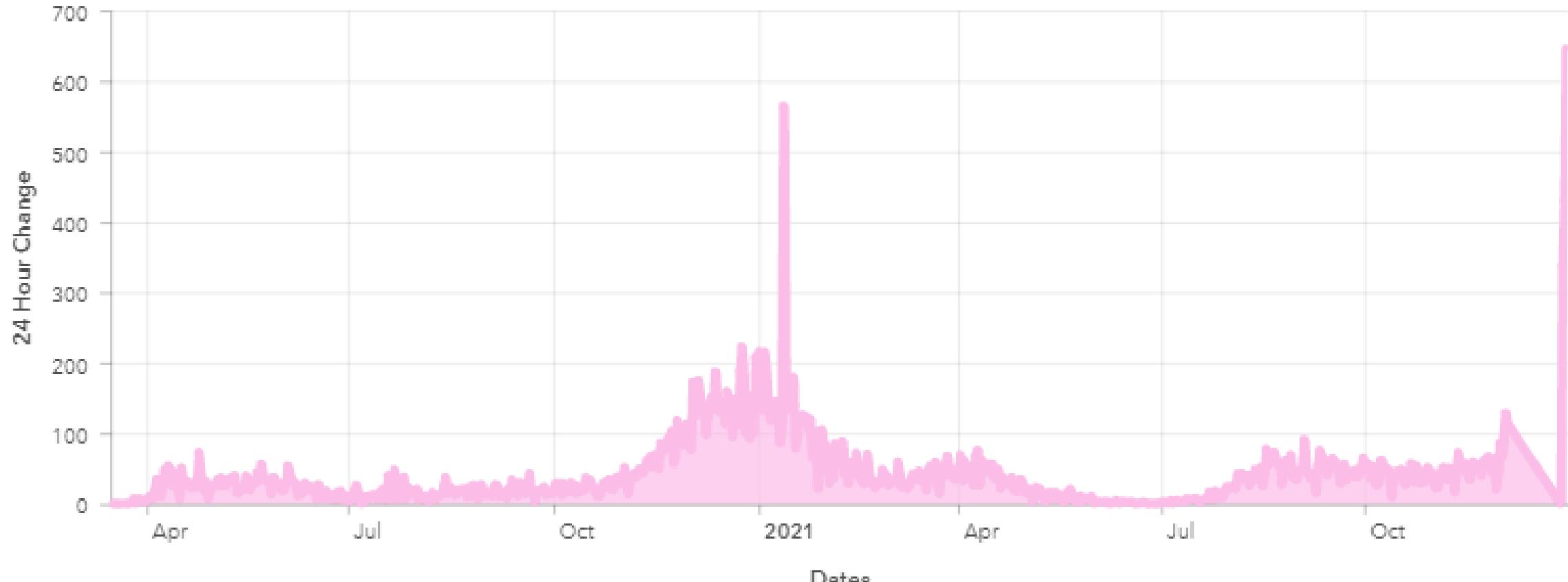
Oct 2021

Case Rate by Jurisdiction

Frederick County Seal



### Confirmed Cases Over Time



Hospitalizations

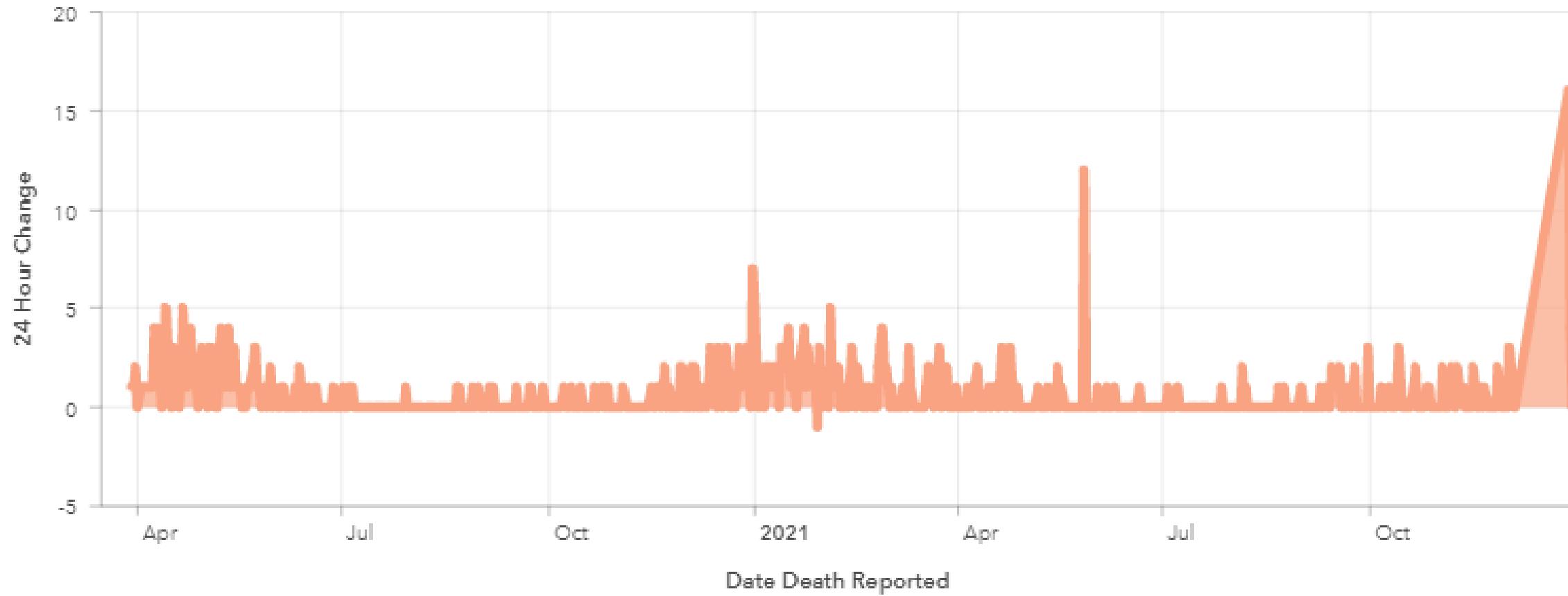
Confirmed Cases Over Time

Total Cases Over Time

Confirmed Deaths Over Time



Confirmed Deaths Over Time



Hospitalizations

Confirmed Cases Over Time

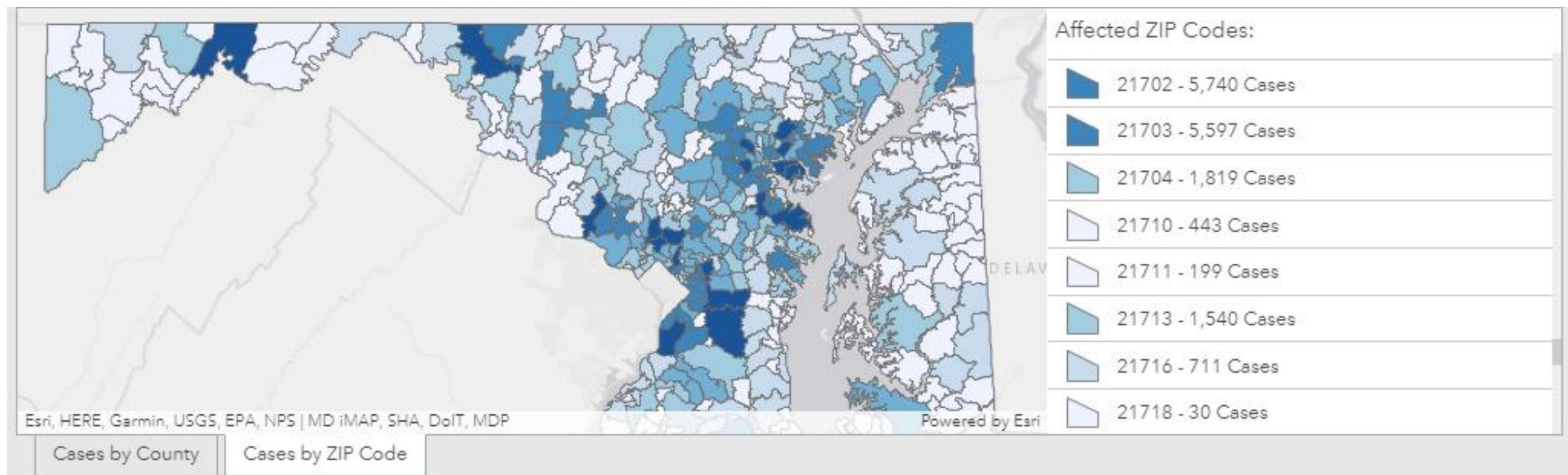
Total Cases Over Time

Confirmed Deaths Over Time



Frederick County, Maryland

# Total Cumulative Cases by Zipcode since 2020





## Vaccinations in Frederick County

**Fully Vaccinated**  
**175,856**

**% of Population Vaccinated**  
**67.8%**  
Fully Vaccinated

**1st Dose Given**  
**174,364**

**2nd Dose Given**  
**158,156**

**Single Dose Given**  
**17,700**

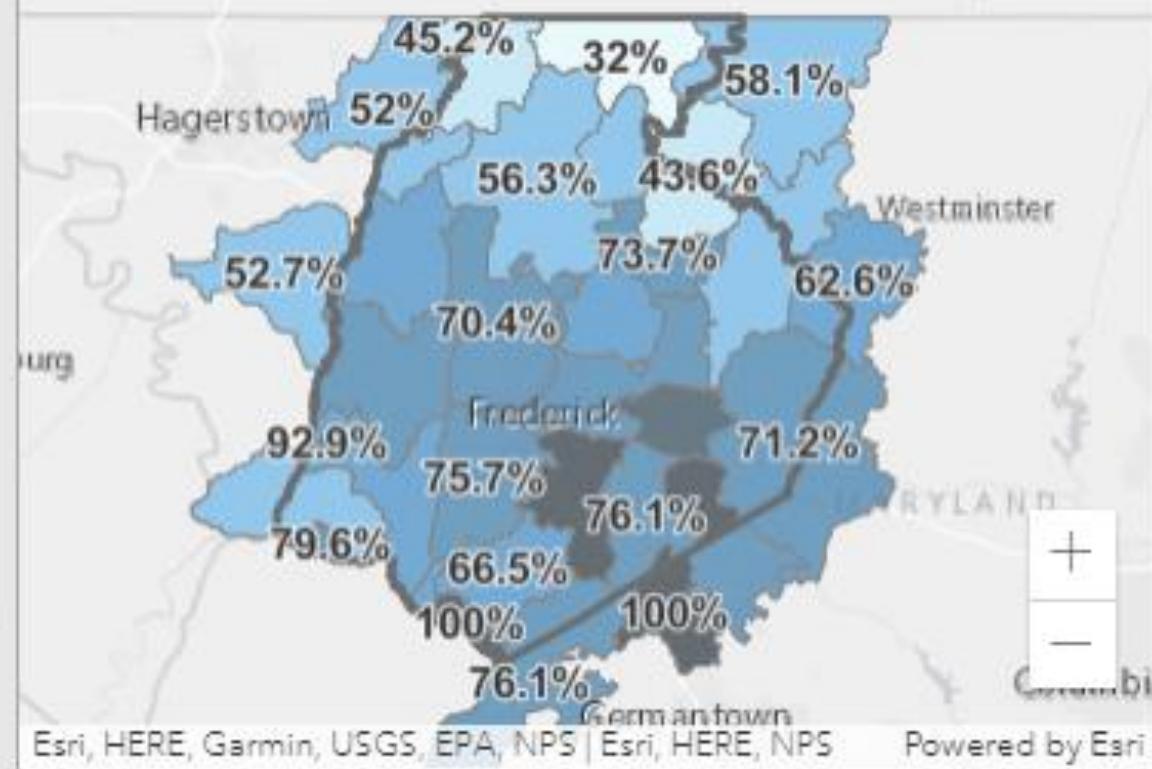
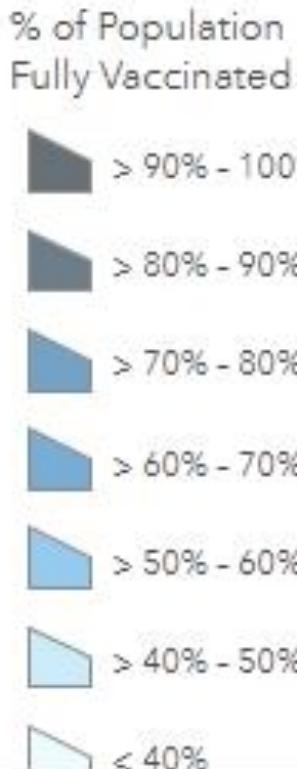
**% of Population Vaccinated**  
**67.2%**  
1st Dose

**% of Population Vaccinated**  
**60.9%**  
2nd Dose

**% of Population Vaccinated**  
**6.8%**  
Single Dose



# Vaccine by Zipcode



## Population Vaccinated by Zipcode

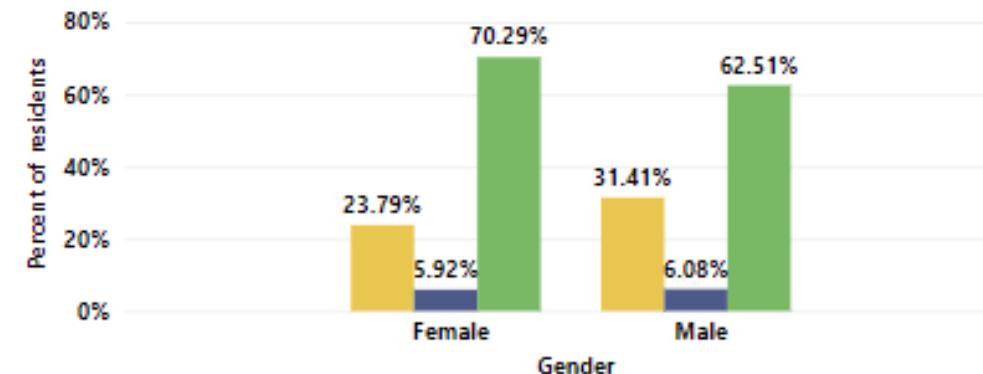
Adamstown (21710)	3,245 (66.5%) Fully Vaccinated
	3,538 (72.5%) At Least One Dose
Boonsboro (21713)	5,465 (52.7%) Fully Vaccinated
	5,898 (56.8%) At Least One Dose
Brunswick (21716)	4,229 (79.6%) Fully Vaccinated
	4,659 (87.7%) At Least One Dose
Burkittsville (21718)	130 (92.9%) Fully Vaccinated
	146 (100.0%) At Least One Dose

**Frederick County residents fully vaccinated by age group**

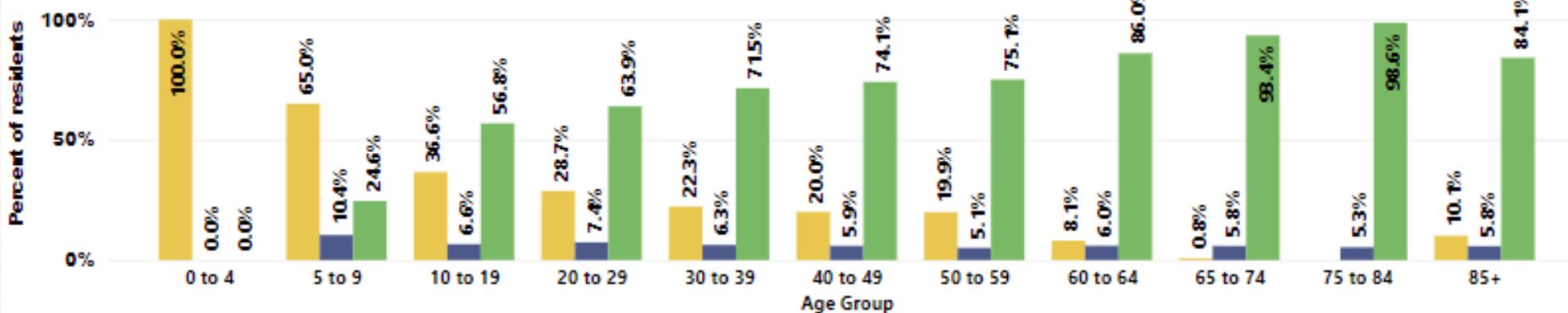
% of Population >= 12 Years of Age	% of Population >= 18 Years of Age	% of Population >= 65 Years of Age
<b>82.0%</b>	<b>83.1%</b>	<b>94.3%</b>

**Frederick County residents vaccinated by gender**

● not vaccinated ● only 1 dose received ● fully vaccinated

**Frederick County residents vaccinated by age**

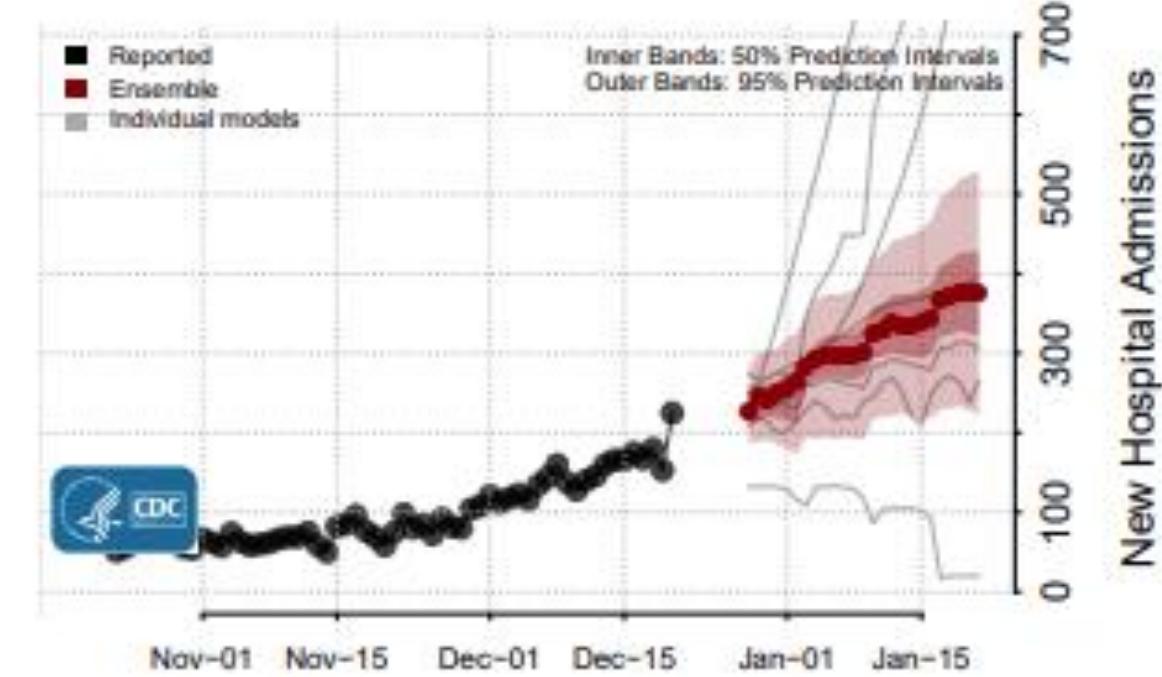
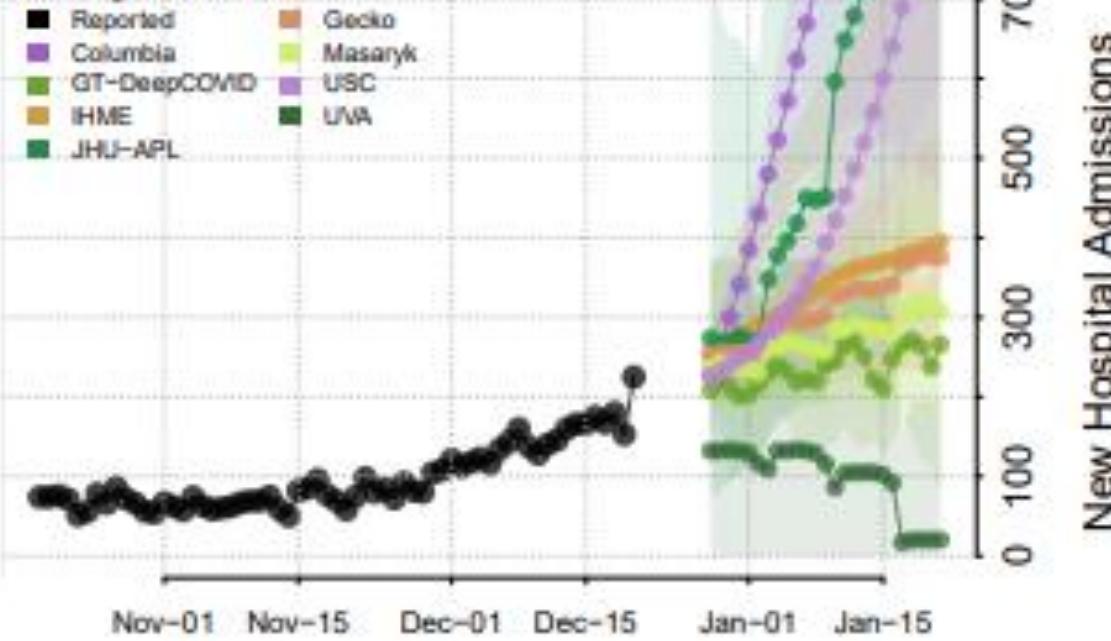
● not vaccinated ● only 1 dose received ● fully vaccinated





# CDC Forecast Hospitalizations – as of 12/27/2021

## Maryland\*\*

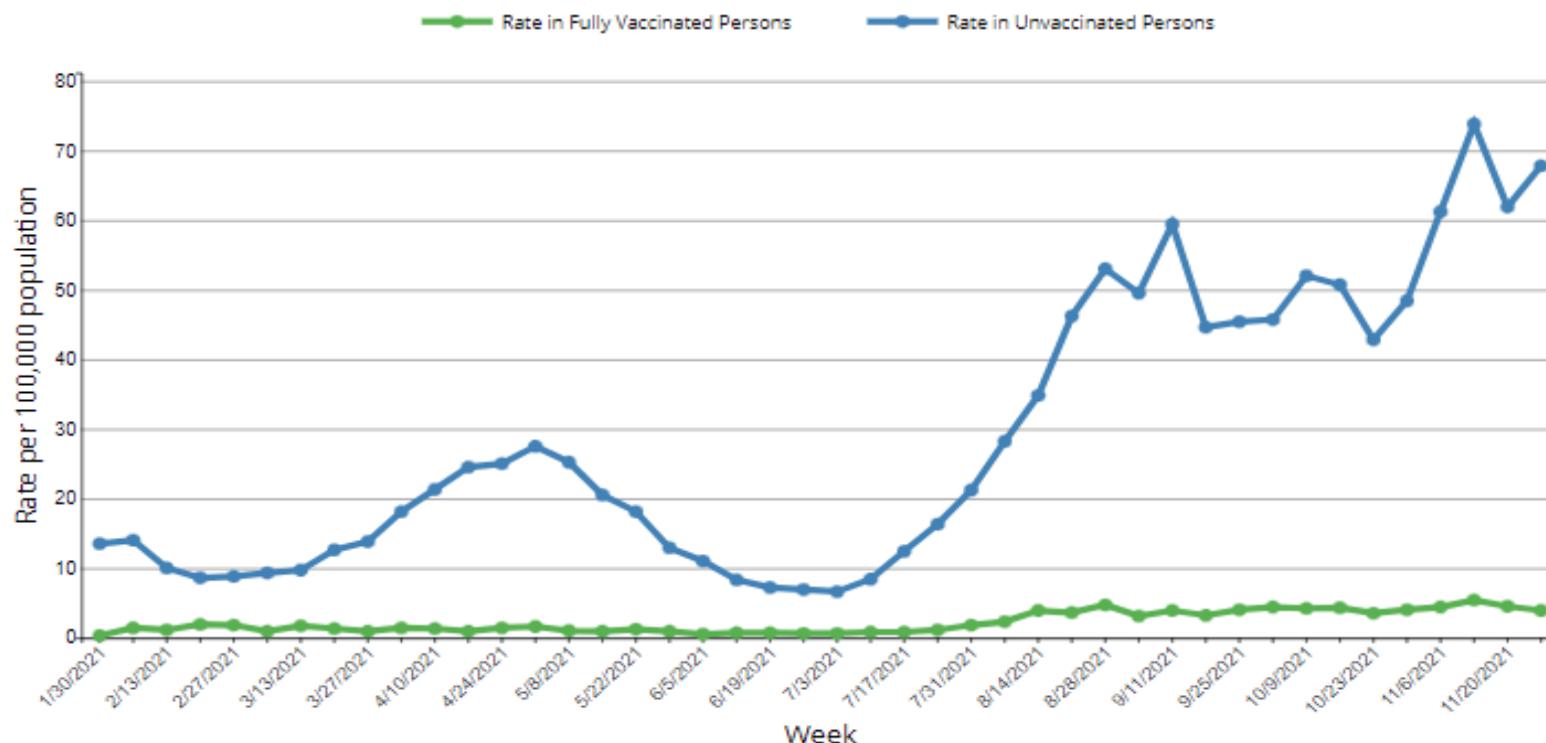




# CDC COVID-NET Hospitalization Surveillance System – Rate by Vax Status Adults

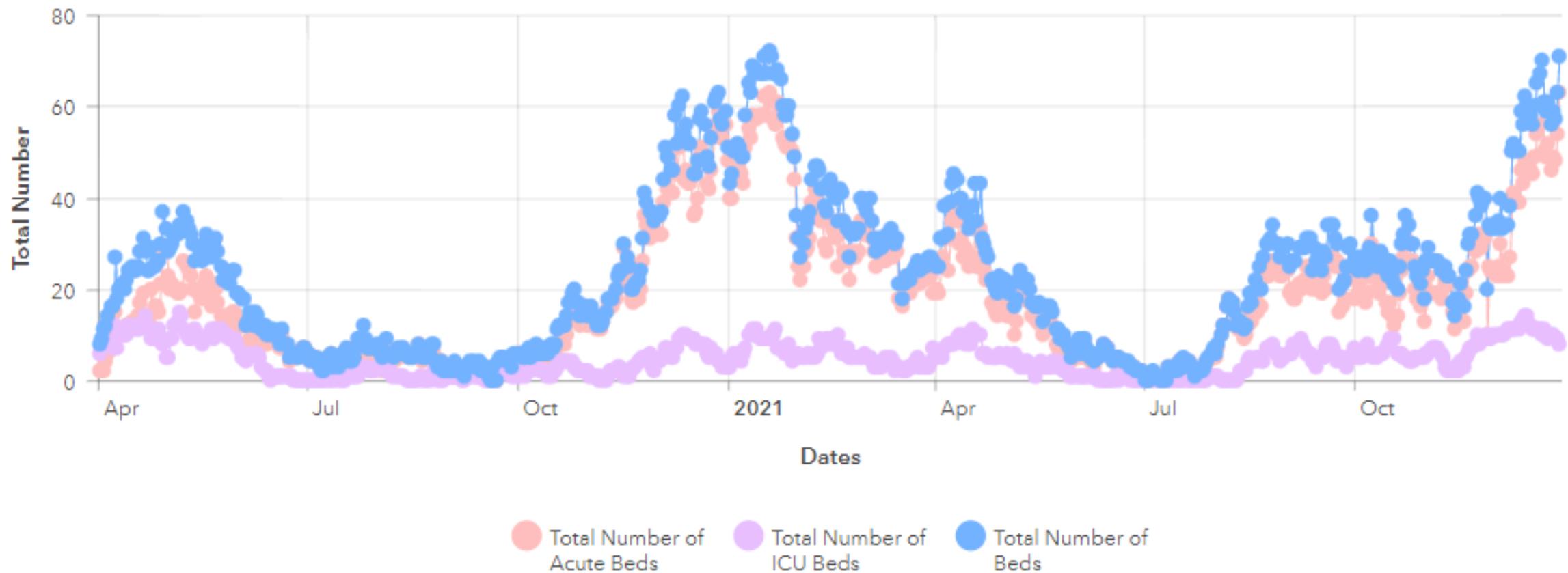
For more information about COVID-NET, please see  
<https://www.cdc.gov/coronavirus/2019-ncov/covid-data/covid-net/purpose-methods.html>.

Age-Adjusted Rates of COVID-19-Associated Hospitalizations by Vaccine Status in Adults Aged  $\geq 18$  Years, January–November 2021





### Frederick County Covid-19 Hospitalizations



[Hospitalizations](#)

[Confirmed Cases Over Time](#)

[Total Cases Over Time](#)

[Confirmed Deaths Over Time](#)



Frederick County, Maryland

# Frederick Health Hospital

Kathy J. Weishaar MD MMM FHM

*Vice President of Medical Affairs and Chief Medical Officer*



# Frederick Health Daily COVID-19 Update

12/30/2021 10:07:50 AM



Currently  
Hospitalized

259

COVID-19  
Inpatients

81

COVID-19  
ICU Patients

10

## Weekly COVID-19 Hospitalizations



Vaccinated  
Inpatients

22

Unvaccinated  
Inpatients

58

Drive Thru  
Tests

208

[FrederickHealth.org/COVID19](http://FrederickHealth.org/COVID19)



# CDC Updates

- CDC Updates and Shortens Recommended Isolation and Quarantine Period for General Population, **Media Statement**, Monday, December 27, 2021, BUT no additional guidance available and believe it is based upon Omicron exposure, not Delta variant

## If You Test Positive for COVID-19 (Isolate)

Everyone, regardless of vaccination status.

- Stay home for 5 days.
- If you have no symptoms or your symptoms are resolving after 5 days, you can leave your house.
- Continue to wear a mask around others for 5 additional days.

*If you have a fever, continue to stay home until your fever resolves.*



# CDC Updates, cont'd

## If You Were Exposed to Someone with COVID-19 (Quarantine)

If you:

Have been boosted

OR

Completed the primary series of Pfizer or Moderna vaccine within the last 6 months

OR

Completed the primary series of J&J vaccine within the last 2 months

- Wear a mask around others for 10 days.
- Test on day 5, if possible.

*If you develop symptoms get a test and stay home.*

If you:

Completed the primary series of Pfizer or Moderna vaccine over 6 months ago and are not boosted

OR

Completed the primary series of J&J over 2 months ago and are not boosted

OR

Are unvaccinated

- Stay home for 5 days. After that continue to wear a mask around others for 5 additional days.
- If you can't quarantine you must wear a mask for 10 days.
- Test on day 5 if possible.

*If you develop symptoms get a test and stay home*



# Outbreak-Associated Cases in Schools (as of 12/15)

	School	Positive Cases
1	Ballenger Creek Elementary School	12
2	Ballenger Creek Middle School	9
3	Brunswick Elementary School	37
4	Brunswick High School	10
5	Brunswick Middle School	18
6	Butterfly Ridge Elementary School	2
7	Carroll Manor Elementary School	3
8	Catoctin High School	49
9	Centerville Elementary School	2
10	Crestwood Middle School	5
11	Glade Elementary	2
12	Governor Thomas Johnson Middle School	2
13	Linganore High School	5

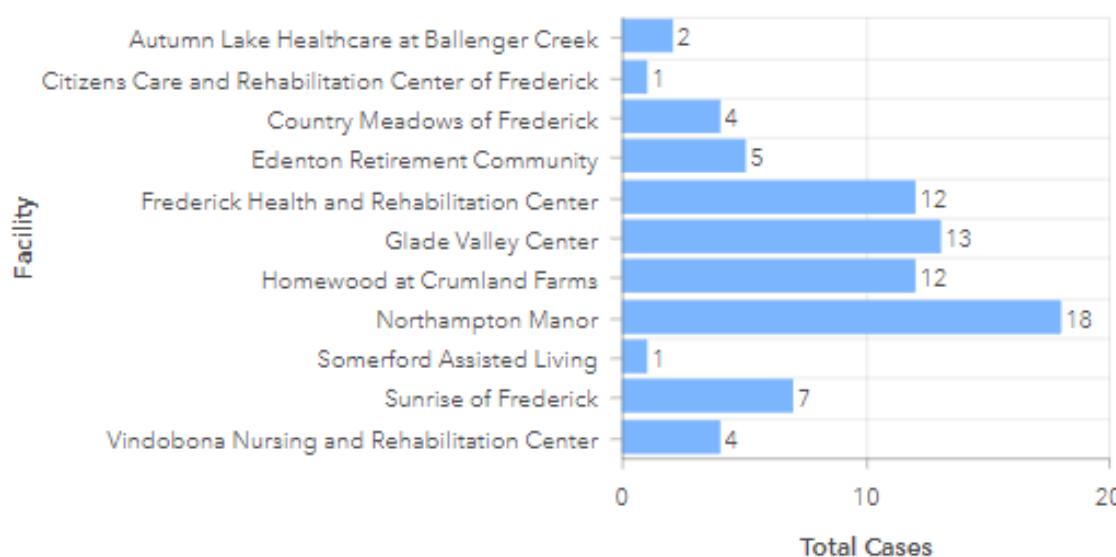
	School	Positive Cases
14	Middletown Primary School	2
15	Monocacy Middle School	5
16	Myersville Elementary School	2
17	New Market Elementary School	2
18	Oakdale Elementary School	6
19	Thurmont Middle School	9
20	Tuscarora High School	3
21	Twin Ridge Elementary	6
22	Urbana High School	3
23	Urbana Middle School	11
24	Walkersville Elementary School	6
25	Walkersville High School	2



## Total Number of Cases      Total Number of Deaths

# 79

# 1



Total Number of Cases: 12  
Total Number of Deaths: 0

**Northampton Manor**  
Total Number of Cases: 18  
Total Number of Deaths: 0

**Somerford Assisted Living**  
Total Number of Cases: 1  
Total Number of Deaths: 0

**Sunrise of Frederick**  
Total Number of Cases: 7  
Total Number of Deaths: 0

**Vindobona Nursing and Rehabilitation Center**  
Total Number of Cases: 4  
Total Number of Deaths: 0

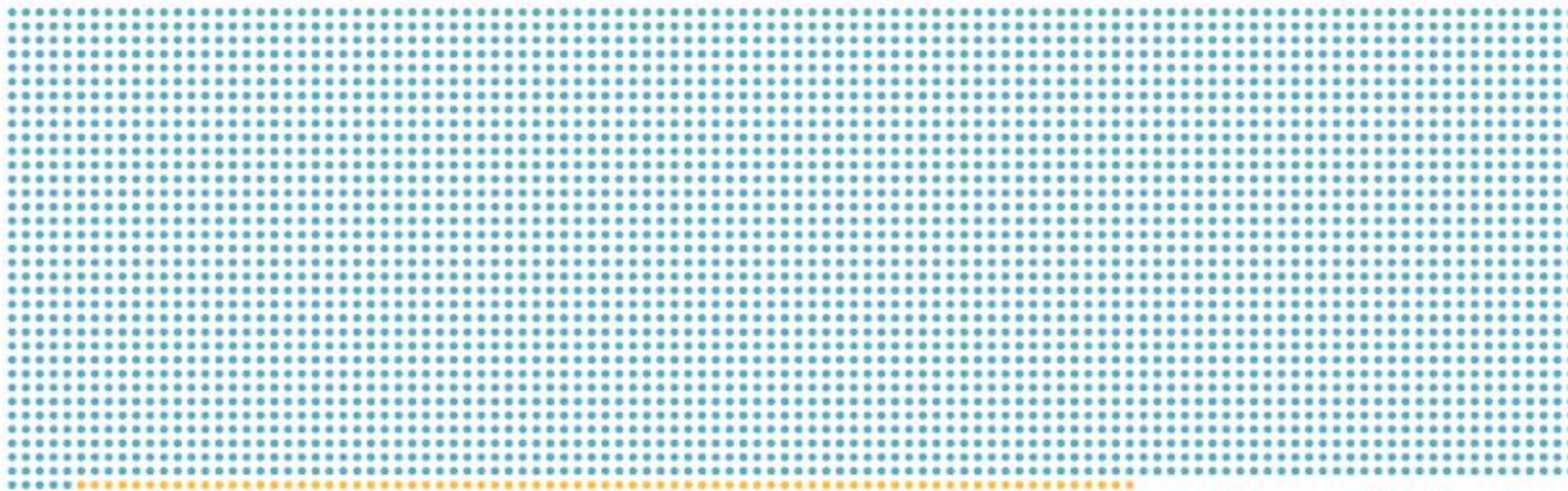
Facilities: Nursing, Assisted Living, Group Homes

Facilities: State and Local



## COVID-19 Post Vaccination Counts Compared to Fully Vaccinated Maryland Residents

1 Dot = 1,000 fully vaccinated Maryland residents



- Fully vaccinated Maryland residents 3,881,309
- Cases among fully vaccinated Maryland residents 76,906



# COVID-19 and Masks

- Science Brief: Community Use of Masks to Control the Spread of SARS-CoV-2, Updated Dec. 6, 2021 <https://www.cdc.gov/coronavirus/2019-ncov/science/science-briefs/masking-science-sars-cov2.html>
  - Source Control to Block Exhaled Virus
  - Filtration for Wearer Protection
  - Human Studies of Masking and SARS-CoV-2 Transmission
  - Potential Adverse Health Effects of Mask Wearing
  - Conclusions
    - Experimental and epidemiologic data support community masking to reduce the spread of SARS-CoV-2, including alpha and delta variants, among adults and children. The prevention benefit of masking is derived from the combination of source control and wearer protection. The relationship between source control and wearer protection is likely complementary and possibly synergistic, so that individual benefit increases with increasing community mask use.



# Mask Studies

- Fluid dynamics simulations show that facial masks can suppress the spread of COVID-19 in indoor environments, AIP Advances 10, 125109 (2020); <https://doi.org/10.1063/5.0035414>
- **EPA Researchers Test Effectiveness of Face Masks, Disinfection Methods Against COVID-19** *Published April 5, 2021*, <https://www.epa.gov/sciencematters/epa-researchers-test-effectiveness-face-masks-disinfection-methods-against-covid-19>
- **FDA Face Masks, Barrier Face Coverings, Surgical Masks, and Respirators for COVID-19**, <https://www.fda.gov/medical-devices/coronavirus-covid-19-and-medical-devices/face-masks-barrier-face-coverings-surgical-masks-and-respirators-covid-19>
- Effectiveness varies by many factors such as - positioning, fit, respiratory force, mask material, volume of virus exposed expelled, consistency of use



# Maryland Influenza Surveillance 2017-2021



## 2020-2021 Influenza Surveillance Season

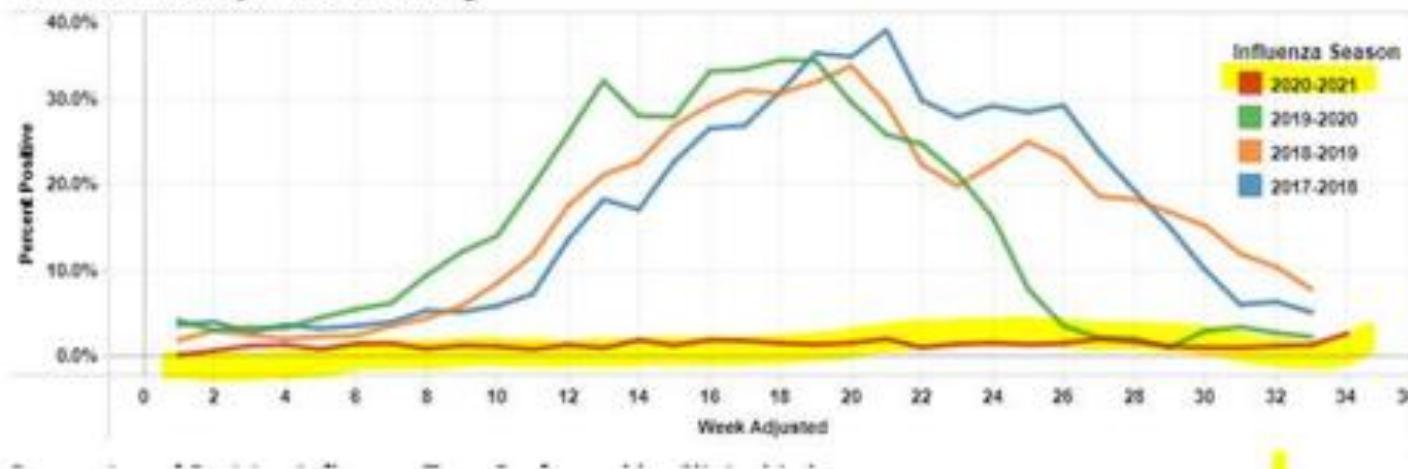


### Laboratory Surveillance

There are many different respiratory viruses that commonly circulate around the same time as influenza and cause similar symptoms. Analyzing trends in laboratory testing and test results allows assessment of whether the ILI activity being reported is due to influenza.

There are two surveillance systems used to track influenza test results: clinical laboratories and the Maryland Department of Health (MDH) Laboratories Administration.

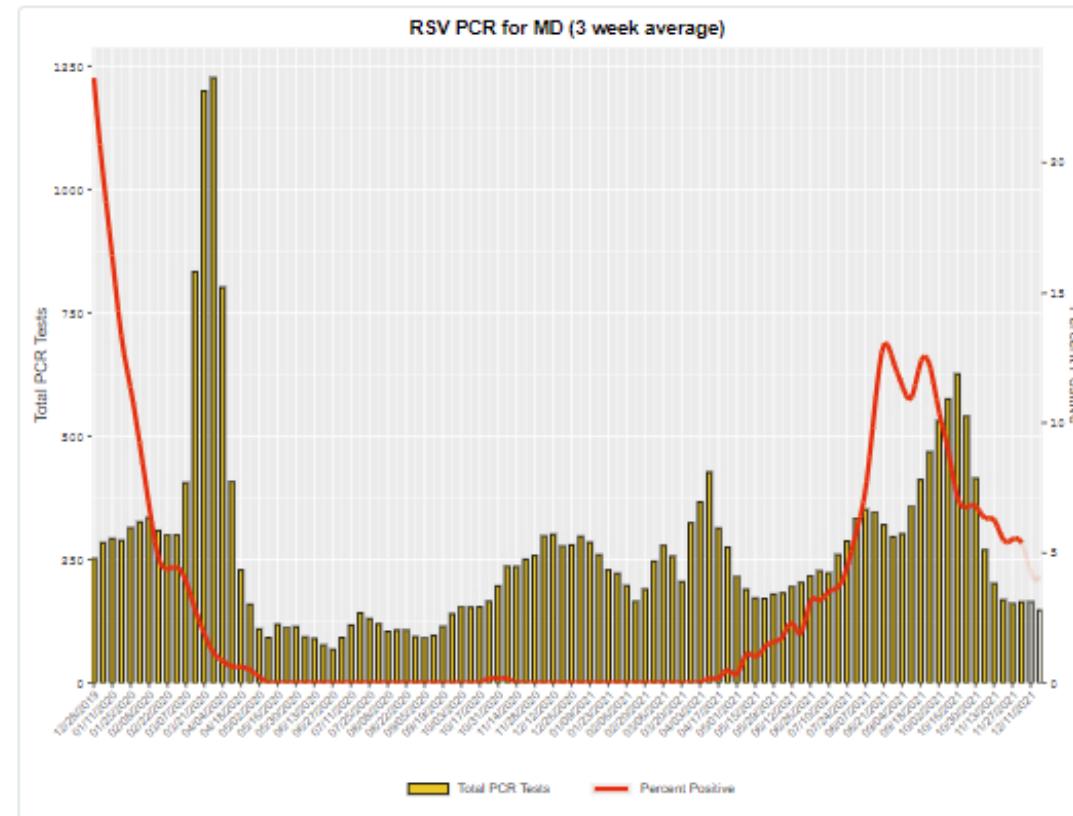
### Clinical Laboratory Influenza Testing





# Maryland Tests for RSV

## Total PCR Tests





# Testing Capacity Expansion

- At-home test kits
- FCHD Hillcrest site – to double capacity by end of next week
- Go to [Covidtest.Maryland.gov](https://Covidtest.Maryland.gov) to see local options for testing including drive-through



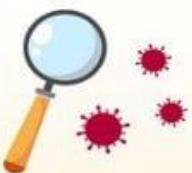
# Omicron FAQs

- How severe is Omicron compared to earlier variants?
  - More data are needed to know if Omicron infections, and especially reinfections and breakthrough infections in people who are fully vaccinated, cause more severe illness or death than infection with other variants.
- How effective are the vaccines against Omicron?
  - Current vaccines are expected to protect against severe illness, hospitalizations, and deaths due to infection with the Omicron variant. However, breakthrough infections in people who are fully vaccinated are likely to occur.
- Do treatments still work?
  - Scientists are working to determine how well existing treatments for COVID-19 work. Based on the changed genetic make-up of Omicron, some treatments are likely to remain effective while others may be less effective.



# Omicron Variant

## What's being done to slow the spread of the Omicron variant in the US?



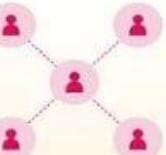
### Detect variants

Robust surveillance to rapidly detect variants



### Slow spread from international travel

Decrease window for required testing before travel to US; increase testing after arrival



### Slow domestic spread

Prioritize case investigation and contact tracing



### Support individual protective actions

Vaccination including boosters, masks indoors and in crowds, testing & isolation



[bit.ly/MMWR7050el](https://bit.ly/MMWR7050el)

MMWR

Get tested to tell if you're currently infected with the virus that causes COVID-19.



## Masks help protect against variants.

Everyone should continue to wear a mask in indoor public places in areas of high or substantial community transmission, regardless of vaccination status.





# Real-world data show vaccination\* reduced the risk for COVID-19 hospitalization among adults 65 and older†

Vaccination is a critical tool to **reduce severe COVID-19** in adults 65 and older



Dose #1



Dose #2



14 or more days  
after 2nd dose

\* Receipt of Pfizer-BioNTech or Moderna 2-dose vaccine series  
† Patients enrolled from 24 U.S. hospitals in 14 states



# A study of hospitalized patients with symptoms similar to COVID-19\* found...

Unvaccinated people with a previous infection were



more likely to have a positive COVID-19 test  
compared to vaccinated people<sup>†</sup>

\*COVID-19-like illness hospitalizations 90–179 days after prior infection or full vaccination

<sup>†</sup>Received two doses of an mRNA vaccine and no previous infection

## Get vaccinated as soon as possible



[bit.ly/MMWR7044e1](https://bit.ly/MMWR7044e1)

**MMWR**



# Monoclonal Antibody Treatment



As of December 22, 2021, HHS has indicated that bamlanivimab/etesevimab administered together and REGEN-COV are not retaining efficacy against the omicron variant of COVID-19.

- They have paused Federal allocation of this product until additional information on efficacy is released from the FDA later next week. HHS indicates that sotrovimab is expected to retain efficacy against the omicron variant and will continue allocating this product (though supplies will be very limited).
- In light of the change, Maryland Dept. of Health directed all sites to do the following:
  - 1) Starting December 23, 2021, sites must stop administering bamlanivimab/etesevimab and REGEN-COV (in any presentation) until directed otherwise. Cancel future appointments for infusion where these products are being used. For very high risk patients you may use Sotrovimab if available.

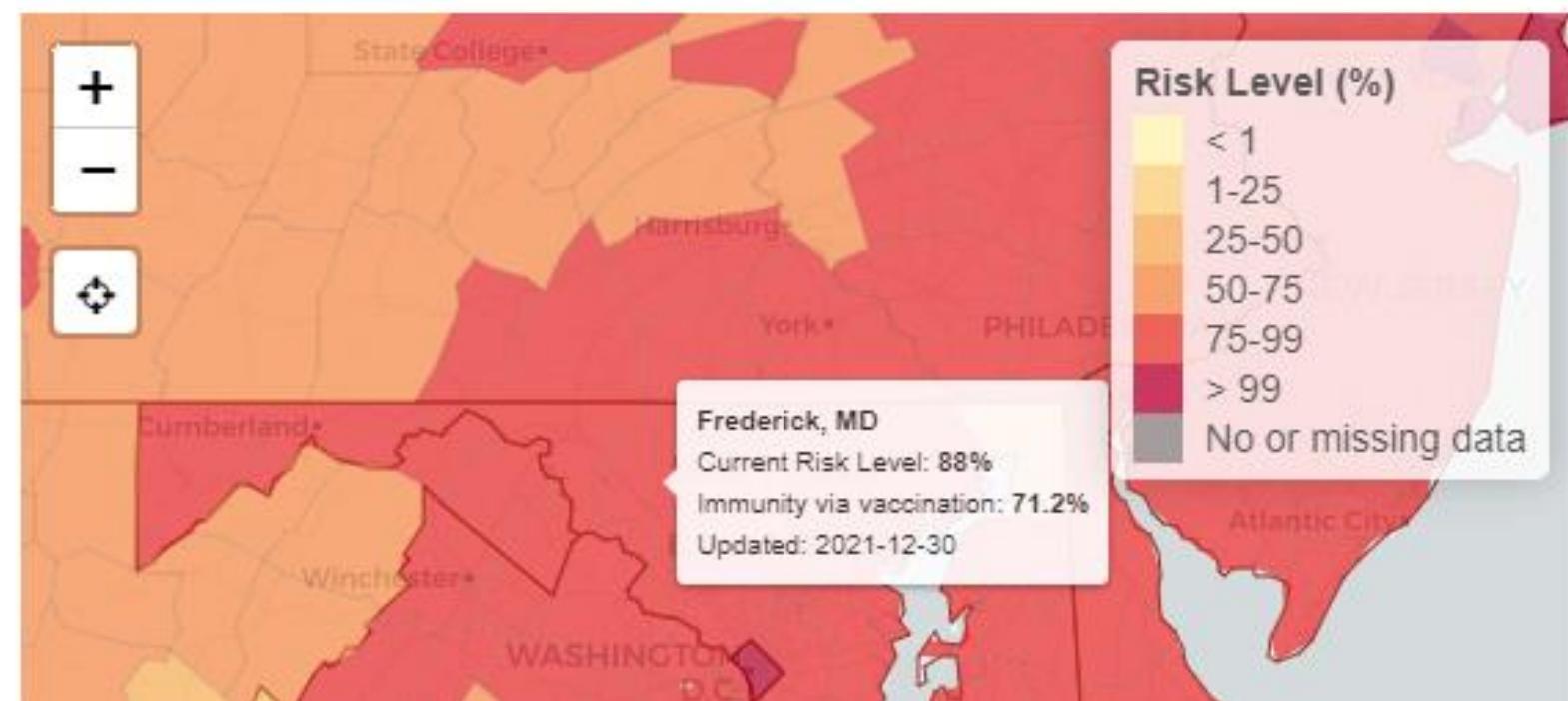


# Georgia Institute of Technology's COVID-19 Event Risk Tool – for event size – 50 persons

## USA RISK ESTIMATES BY COUNTY

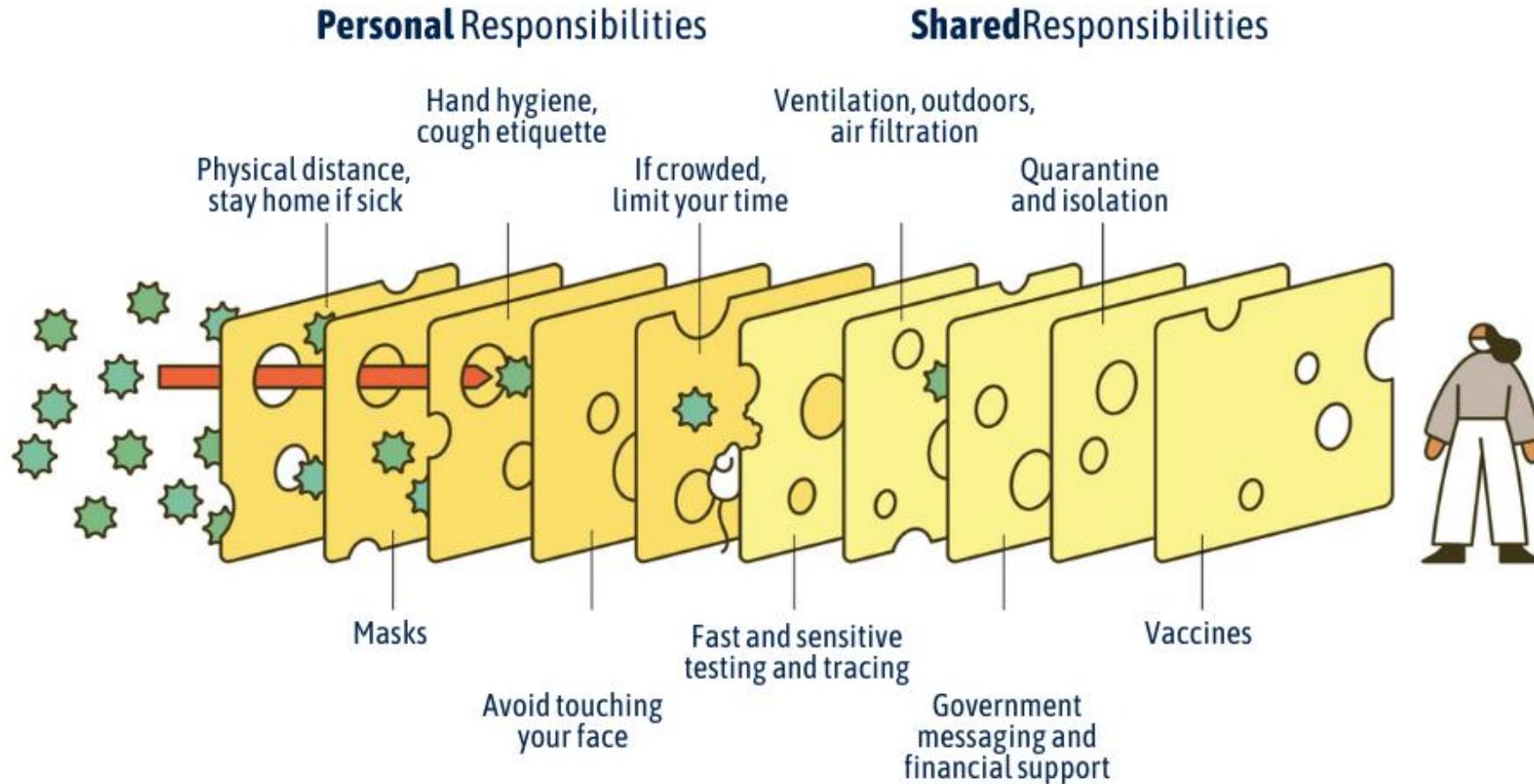
This map shows the risk level of attending an event, given the event size and location.

The risk level is the estimated chance (0-100%) that at least 1 COVID-19 positive individual will be present at an event in a county, given the size of the event.





# Multiple Layers Improve Success





# Please enjoy your holidays safely!

If you are sick or have symptoms, don't host or attend gatherings.



Test to prevent spread to others.



The best way to keep your family and friends safe is to get vaccinated.



Delay travel until you are fully vaccinated.



Avoid crowded, poorly ventilated spaces.



Wear a mask in public indoor settings





# Proposed Regulation

## **Requirement of face coverings**

- **(A) FACE COVERINGS.**
- (1) **Face Covering** means a covering that fully covers a person's nose and mouth and is secured to the person's head, including without limitation, scarves, bandanas, and plastic full-face-shields.
- (2) **Requirement to Wear Face Coverings.** All persons aged 5 (five) years and older are required to wear a face covering in all indoor public spaces accessible to the public where the person is unable to consistently maintain at least six (6) feet of distance from individuals who are not members of their household.



# Proposed Regulation, cont'd

**(3) Exceptions.** Paragraph (A)(2) does not require a person to wear a face covering:

- (a) If, due to a bona fide disability or medical condition, it would be unsafe for the person to do so;
- (b) to the extent wearing a Face Covering would impede communication by or with persons who have a hearing impairment or other disability, where the ability to see the mouth is essential for communication;
- (c) if wearing a Face Covering would subject the person to an unsafe working condition, as determined by federal, state, or local occupational safety regulators or workplace safety guidelines;
- (d) to the extent wearing a Face Covering would make it impossible to receive services requiring access to the face, mouth, or head, including without limitation, dental care, shaving, and facial treatments;
- (e) while consuming food or beverages;
- (f) while swimming or engaging in other physical activities where the use of a Face Covering is likely to pose a bona fide safety risk;
- (g) while operating any Public Transportation conveyance, provided that the person is (1) the sole operator of the conveyance, and (2) located in a separate compartment that is off-limits to riders; or
- (h) to the extent it is necessary to observe the person's entire face to verify such person's identity for bona fide security purposes.



# Proposed Regulation, cont'd

**(B) APPLICABILITY.** This regulation applies Countywide, including all municipalities except within the corporate boundary of Mount Airy, Maryland located within Frederick County.

**(C) SEVERABILITY.** If the application of this regulation or any part of it to any facts or circumstances is held invalid, the rest of the regulation and its application to all other facts and circumstances is intended to remain in effect.

**(D) EFFECTIVE DATE.** This regulation takes effect at \_\_\_\_ .m. on \_\_\_\_\_, 2021, and shall remain in effect until this regulation is superseded, amended, or revised by additional Board of Health Regulation.

The undersigned hereby certifies that this Regulation was approved and adopted on the \_\_\_\_\_ day of December, 2021.



# Board of Health, Frederick County

- Will reconvene at 12:17am