ARKANSAS DEPARTMENT OF HEALTH

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Secretary of Health

COVID-19 Variant of Concern (VOC) Case Report Arkansas, 2021-2022

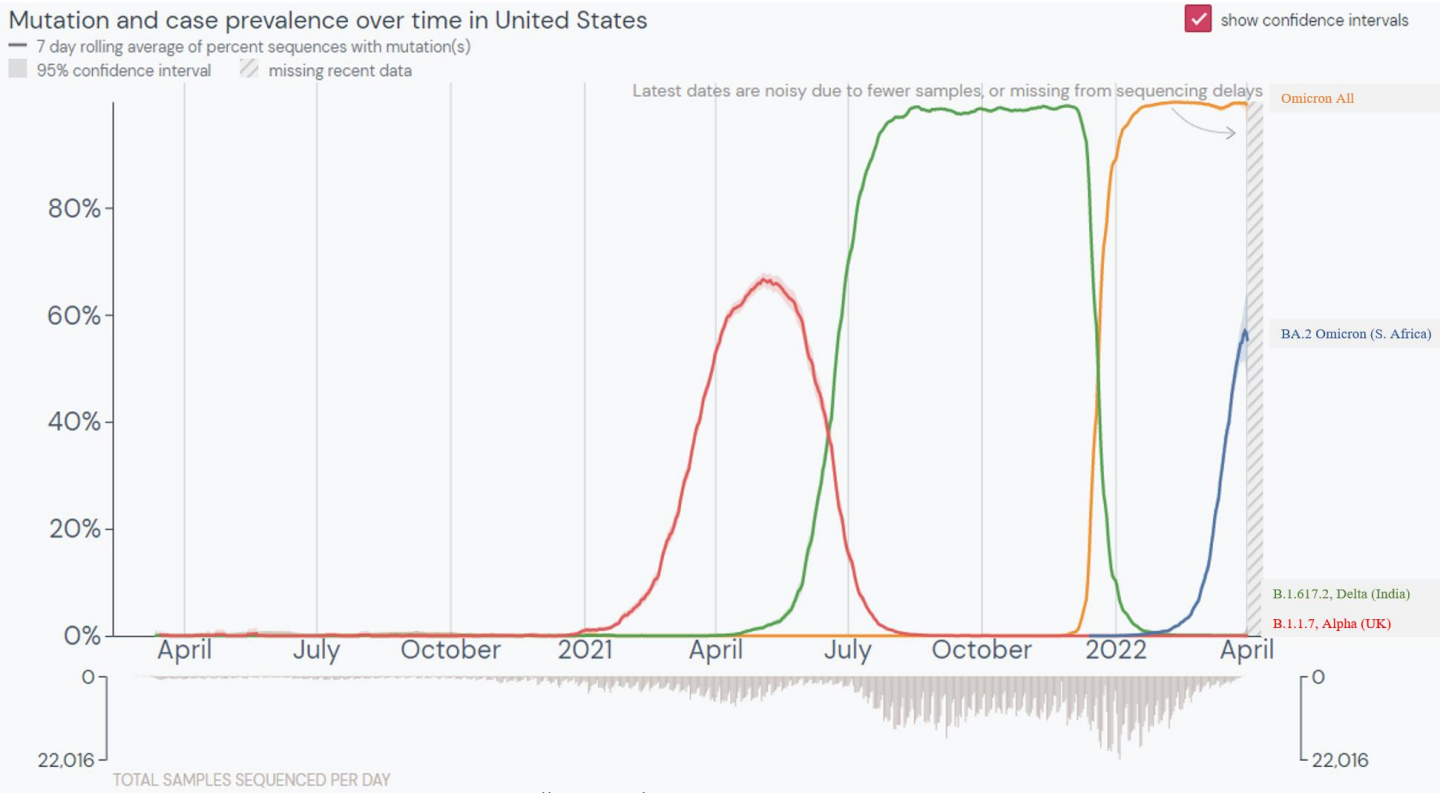
Week Ending Saturday 4/9/2022

The Arkansas Department of Health (ADH) receives COVID-19 variant reports of a limited number of cases that were sequenced for selected Arkansas residents. The information provided is not the count of all cases due to the COVID-19 Delta variant nor of the counts of all the variants in the state, and are only based on a very small, non-random, convenience sample of cases. Therefore, it is important to understand that this information is not representative of all cases, and does not reflect the overall burden of disease. It is presumed that there are many more people affected than the report shows.

Most of these cases are reported by GISAID and GenBank and identified by ADH staff with assistance from the testing labs. Other data are obtained from Outbreak.info website.

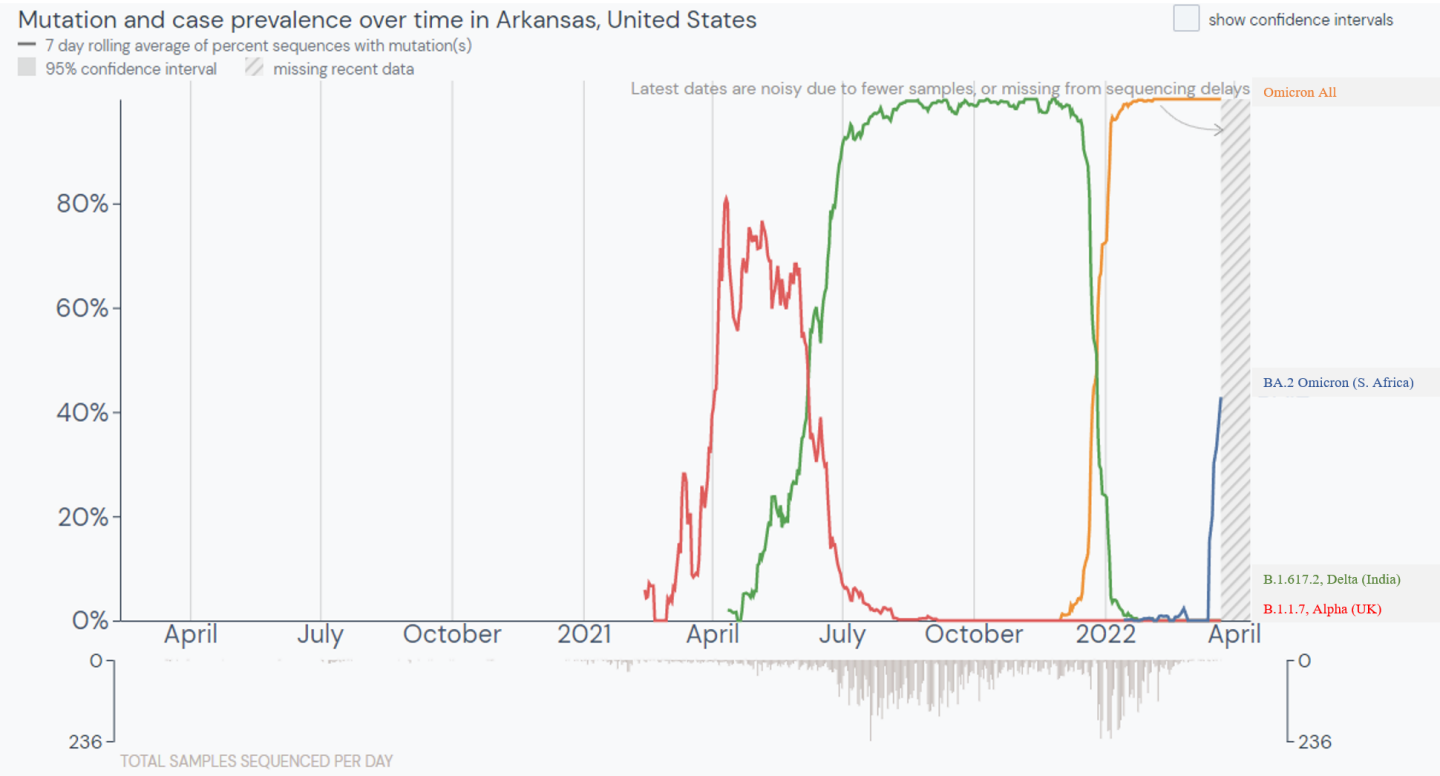
Due to time lag in getting sequencing results, data are subject to change over time and will be updated as more data become available.

Mutation and Case Prevalence Over Time, National Data:

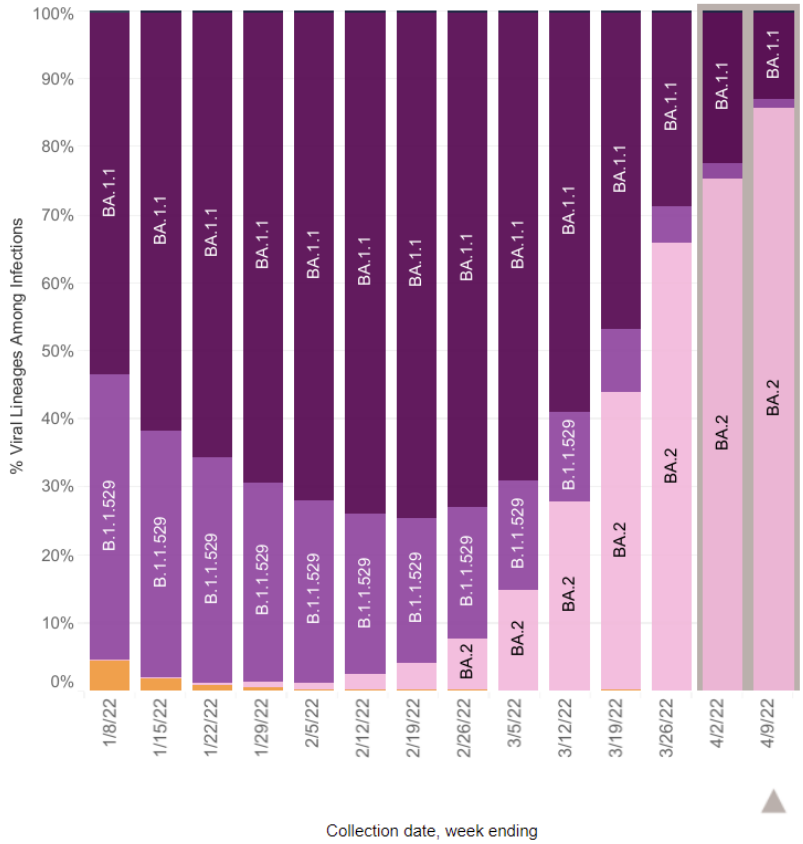


Source: https://outbreak.info/

Mutation and Case Prevalence Over Time, Arkansas Data:



Variant Proportions as of 4/9/2020, National Data:



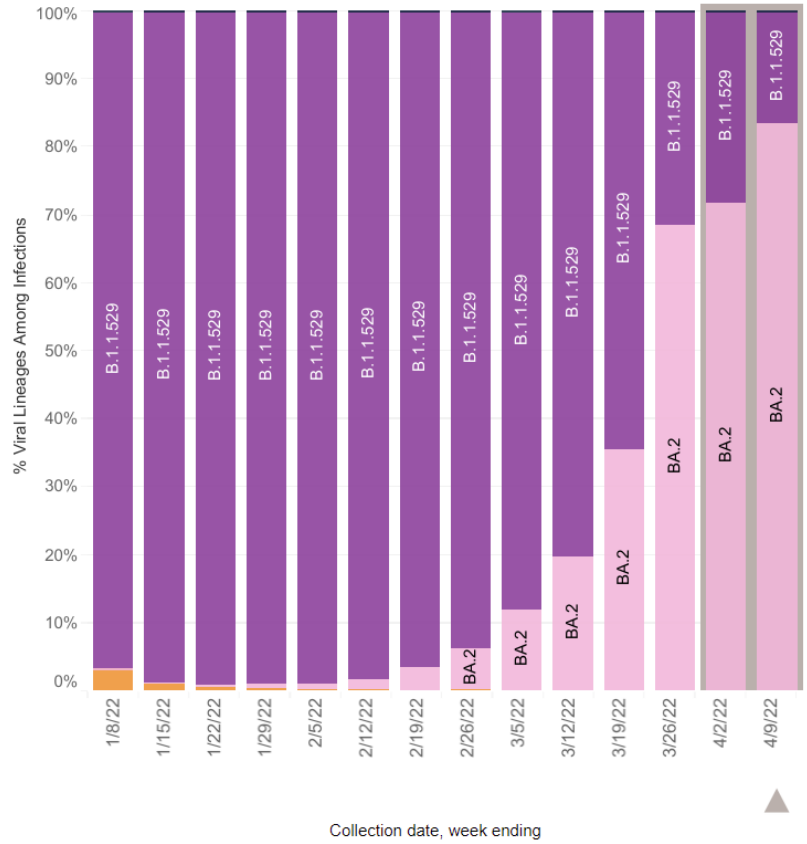
USA

WHO label	Lineage #	US Class	%Total	95%PI
Omicron	BA.2	VOC	85.9%	83.6-87.8%
	BA.1.1	VOC	13.1%	11.3-15.2%
	B.1.1.529	VOC	1.0%	0.8-1.3%
Delta	B.1.617.2	VOC	0.0%	0.0-0.0%
Other	Other*		0.0%	0.0-0.0%

* 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.133 and their sublineages are aggregated with B.1.617.2. BA.1, BA.3 and their sublineages (except BA.1.1 and its sublineages) are aggregated with B.1.1.529. For regional data, BA.1.1 and its sublineages are also aggregated with B.1.1.529, as they currently cannot be reliably called in each region.

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

Variant Proportions as of 4/9/2020, Region 6:



Region 6 - Arkansas, Louisiana, New Mexico, Oklahoma, and Texas

WHO label	Lineage #	US Class	%Total	95%PI
Omicron	BA.2	VOC	83.5%	78.0-87.8%
	B.1.1.529	VOC	16.5%	12.2-22.0%
Delta	B.1.617.2	VOC	0.0%	0.0-0.0%
Other	Other*		0.0%	0.0-0.0%

* 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.
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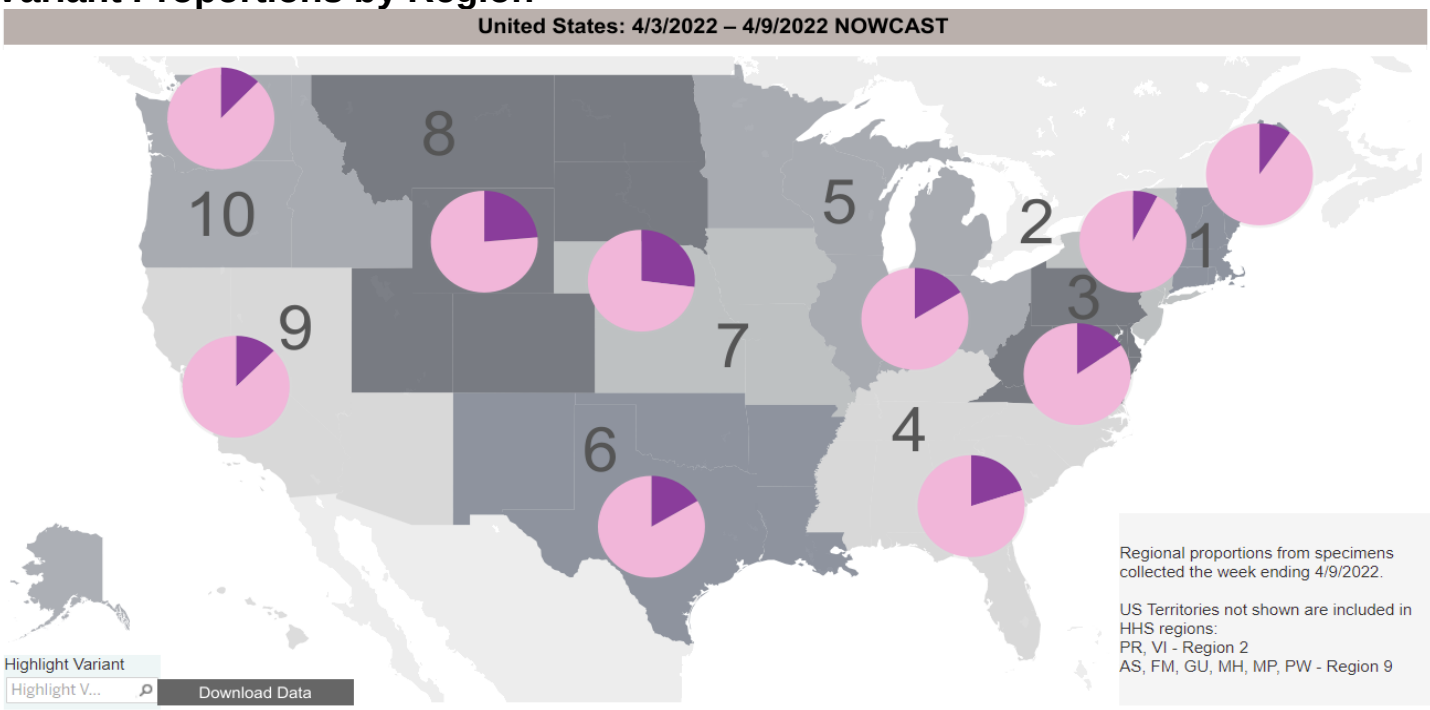
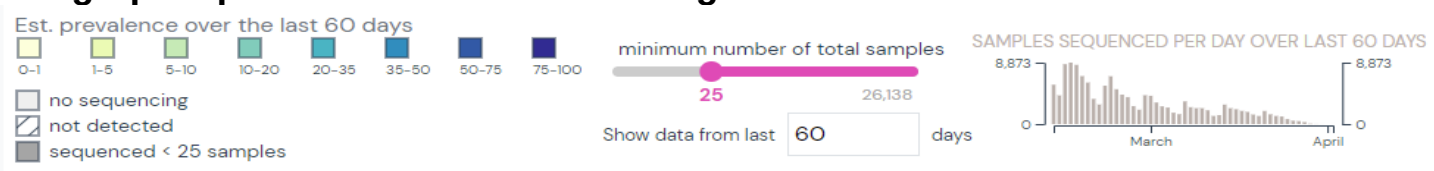
Variant Proportions by Region



Lineages called using pango-designation (PANGO)-v1.2.133, pangolin v3.1.20, pangoLEARN version 03/22/2022 and Scorpio v0.3.16. Lineage BA.1.1 and its sublineages are aggregated with B.1.1.529 at the regional level as they currently cannot be reliably called in each region.

Updated April 12, 2022

Geographic prevalence of tracked lineages & mutations



B.1.617.2, Delta (India)

Omicron All (South Africa)

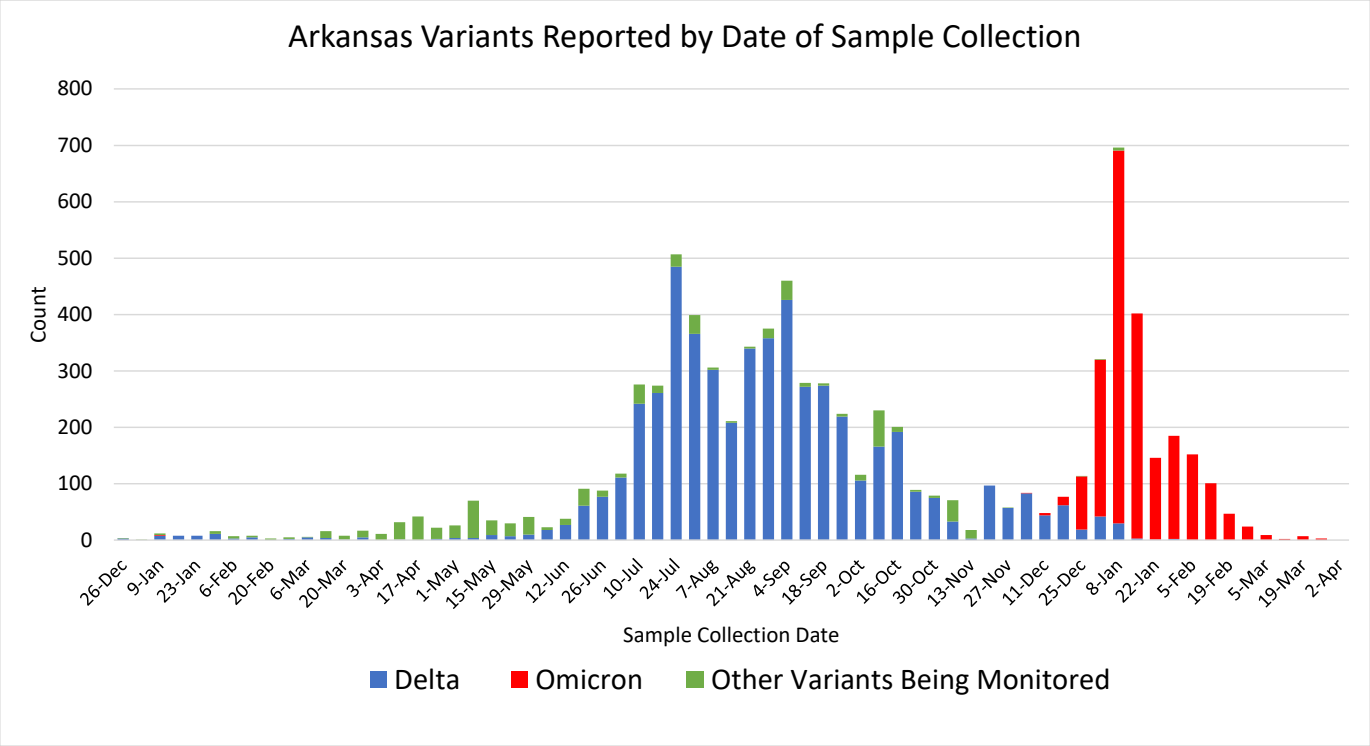
BA.1.1 Omicron

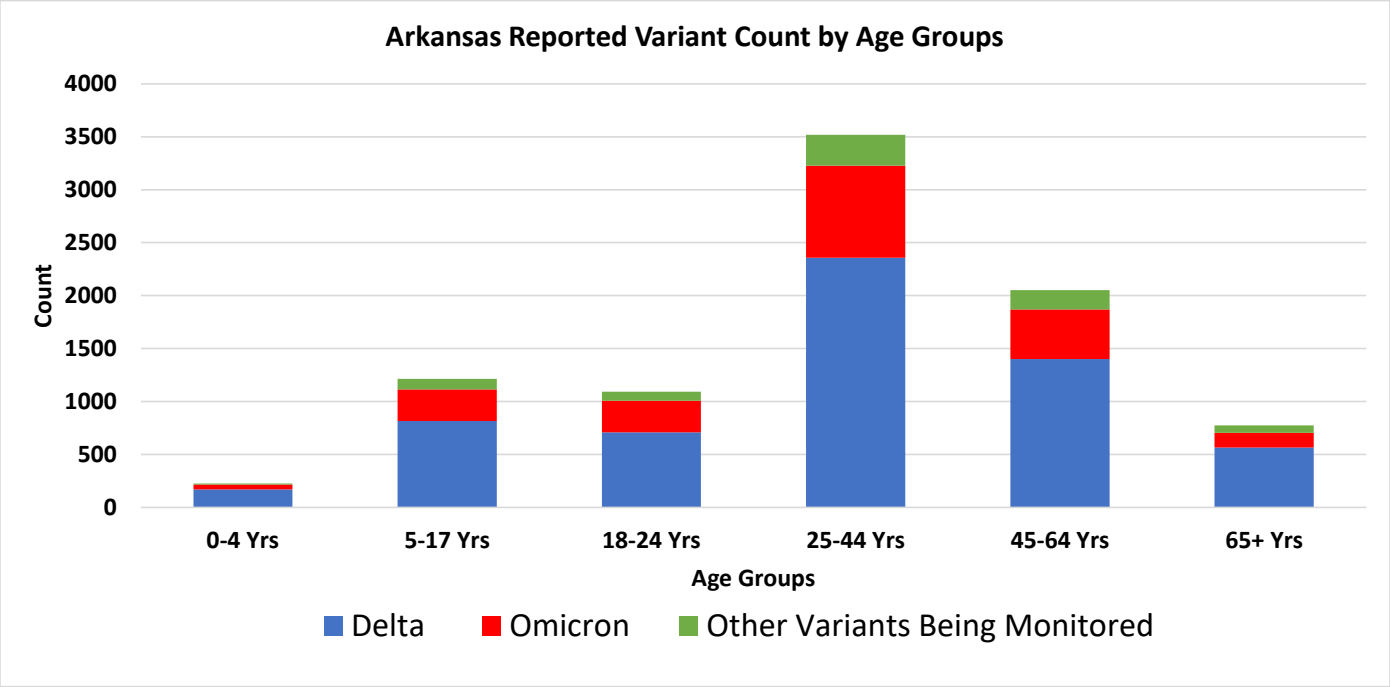
BA.2 Omicron

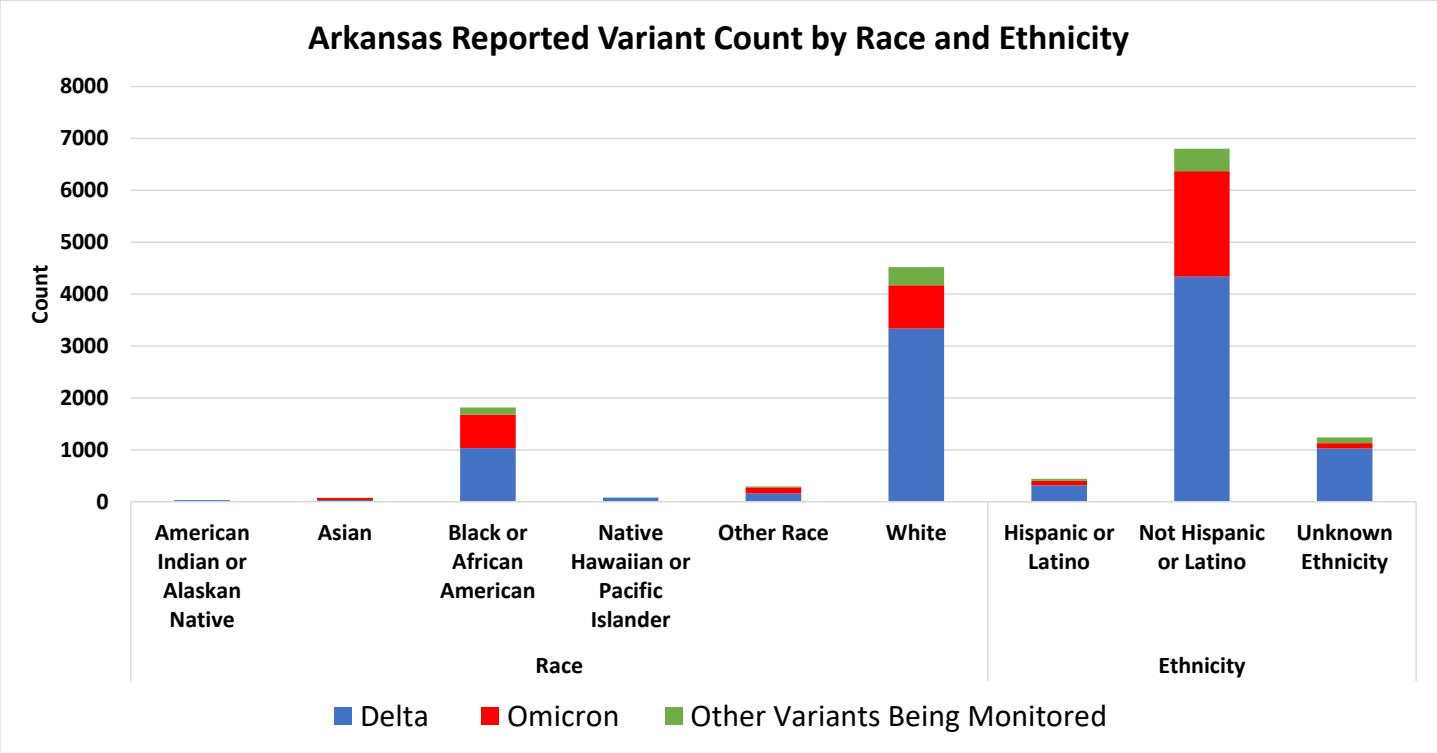
Cumulative Number of Arkansas Specimens Sequenced as of April 9, 2022

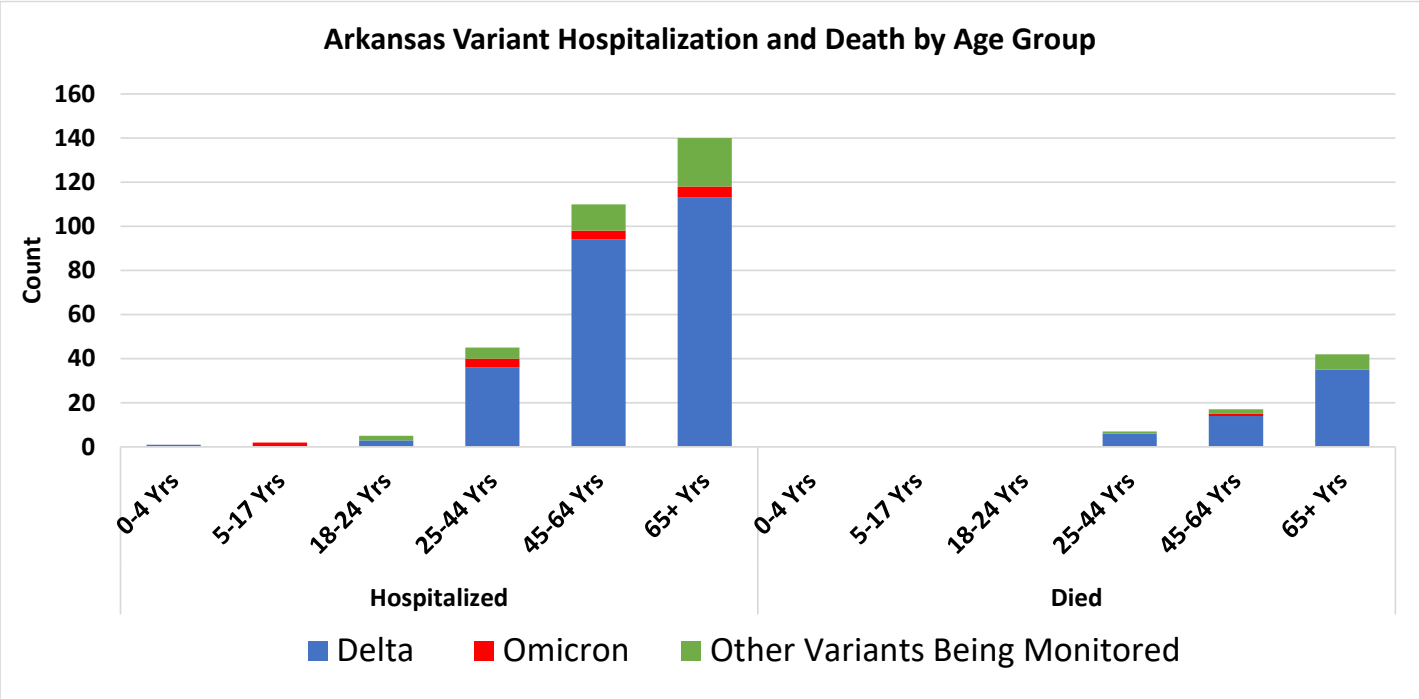
Total Arkansas Sequences = 16,663 (2.41% Sequenced)

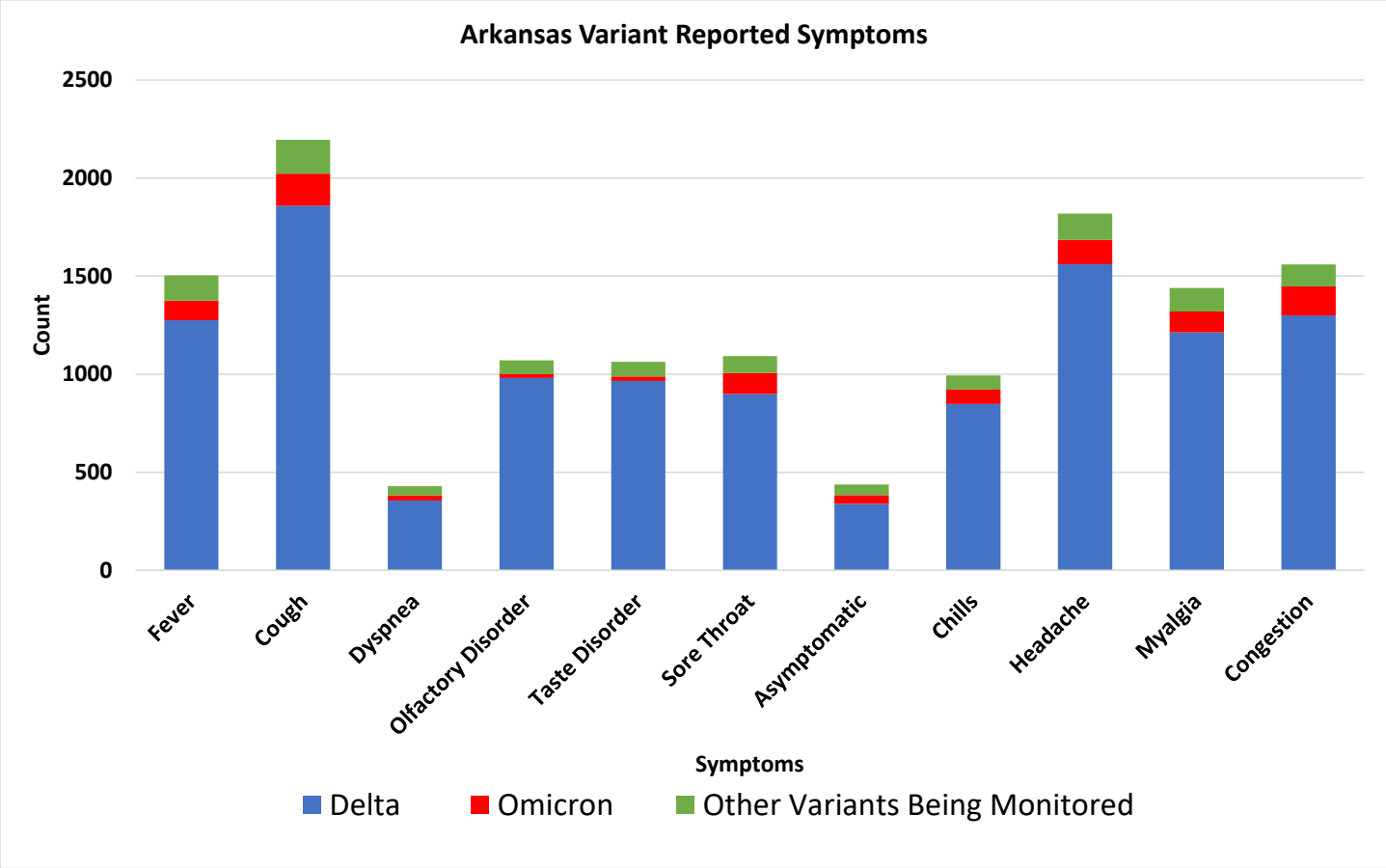
Total Number of BA.2 Sub-variant in Arkansas: 52

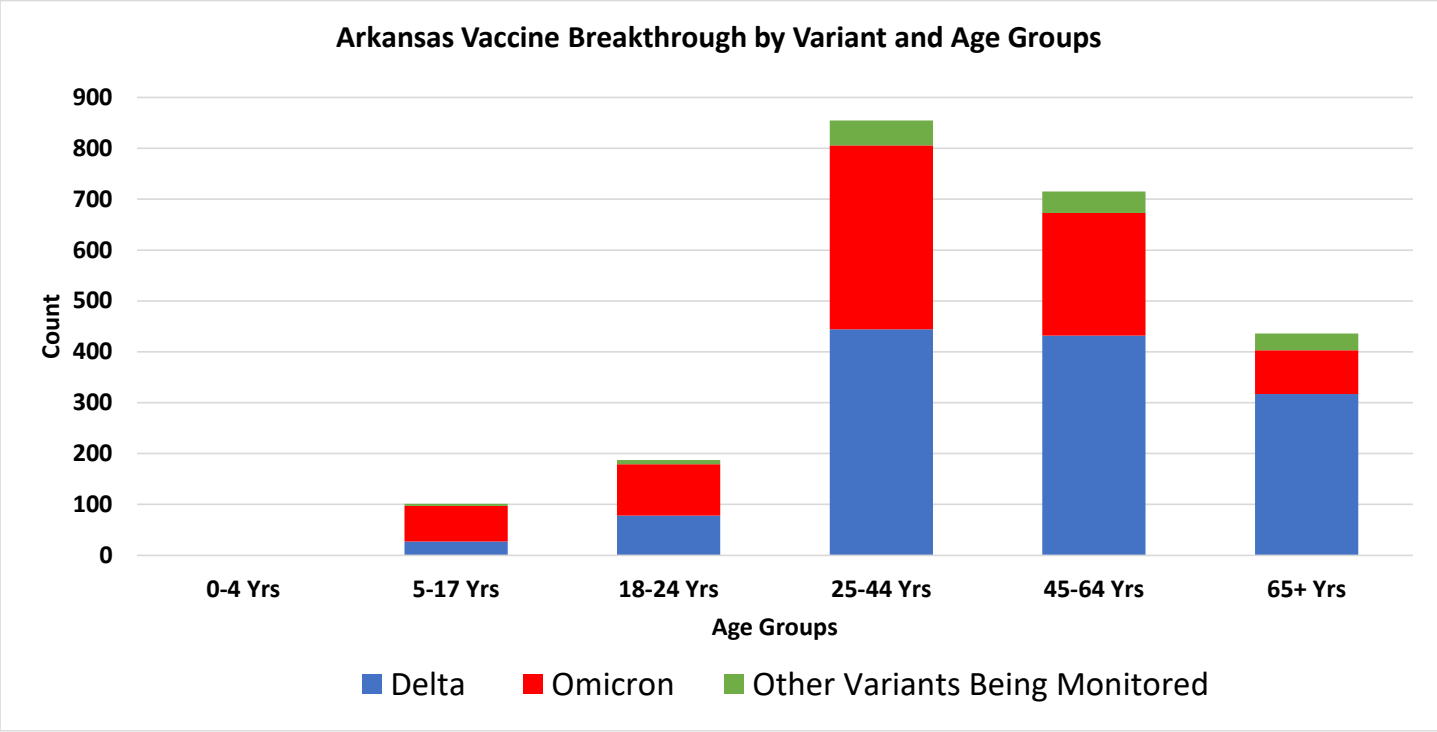




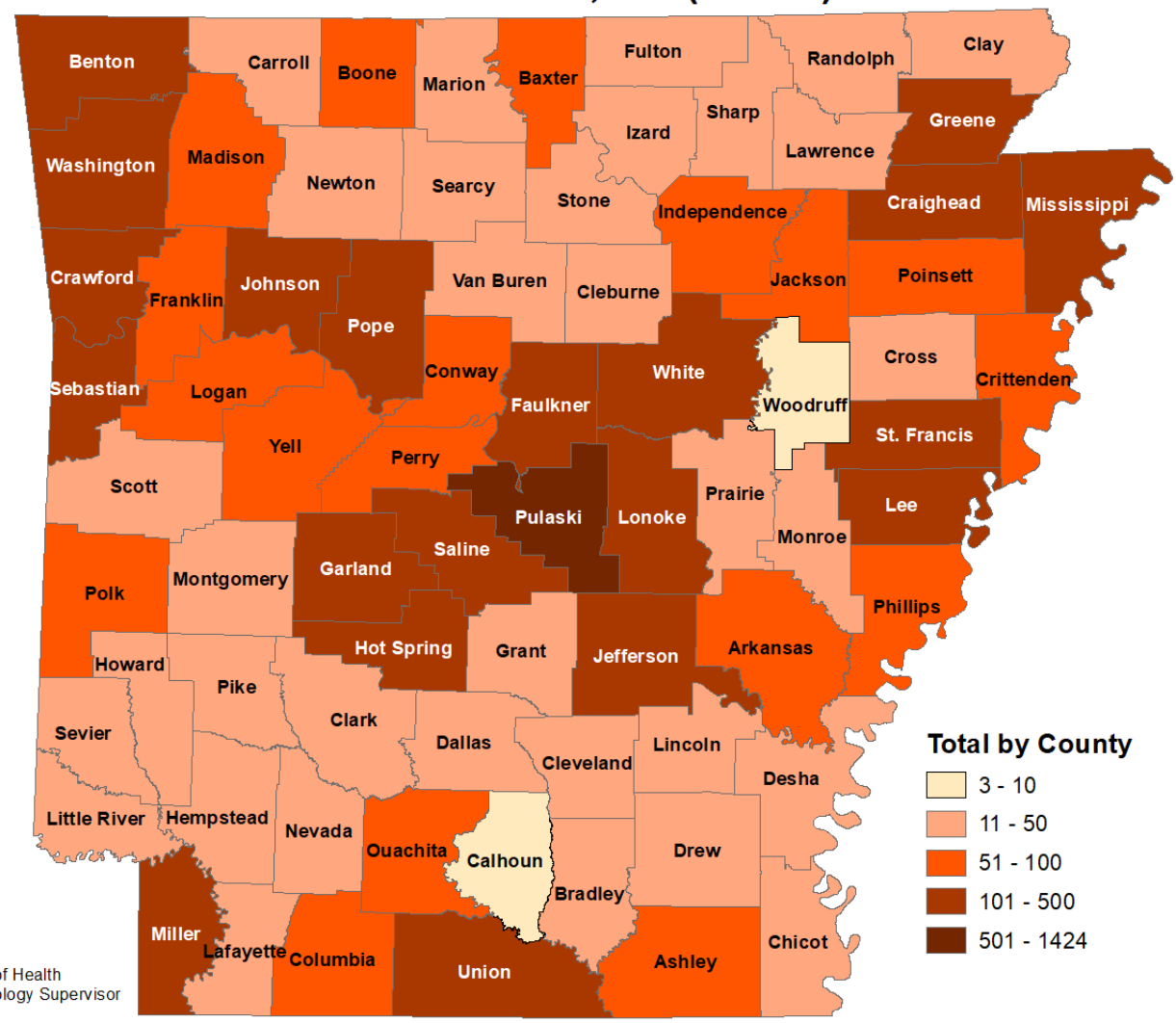

Arkansas Reported Variant Count by Race and Ethnicity
Count
8000
7000
6000
5000
4000
3000
2000
1000
0
American Indian or Alaskan Native
Asian
Black or African American
Native Hawaiian or Pacific Islander
Other Race
White
Hispanic or Latino
Not Hispanic or Latino
Unknown Ethnicity
Race
Ethnicity
Delta
Omicron
Other Variants Being Monitored


Arkansas Variant Hospitalization and Death by Age Group
Count
160
140
120
100
80
60
40
20
0
0-4 Yrs
5-17 Yrs
18-24 Yrs
25-44 Yrs
45-64 Yrs
65+ Yrs
0-4 Yrs
5-17 Yrs
18-24 Yrs
25-44 Yrs
45-64 Yrs
65+ Yrs
Hospitalized
Died
Delta
Omicron
Other Variants Being Monitored


Arkansas Variant Reported Symptoms
2500
2000
1500
1000
500
0
Count
Fever
Cough
Dyspnea
Olfactory Disorder
Taste Disorder
Sore Throat
Asymptomatic
Chills
Headache
Myalgia
Congestion
Symptoms
Delta
Omicron
Other Variants Being Monitored


Arkansas Vaccine Breakthrough by Variant and Age Groups
900
800
700
600
500
400
300
200
100
0
Count
0-4 Yrs
5-17 Yrs
18-24 Yrs
25-44 Yrs
45-64 Yrs
65+ Yrs
Age Groups
Delta
Omicron
Other Variants Being Monitored

Confirmed COVID-19 Variants by County As of April 9, 2022
Arkansas Total: 16,663 (2.41%)



Date: April 12, 2022
Source: Arkansas Department of Health
Author: Haytham Safi, Epidemiology Supervisor