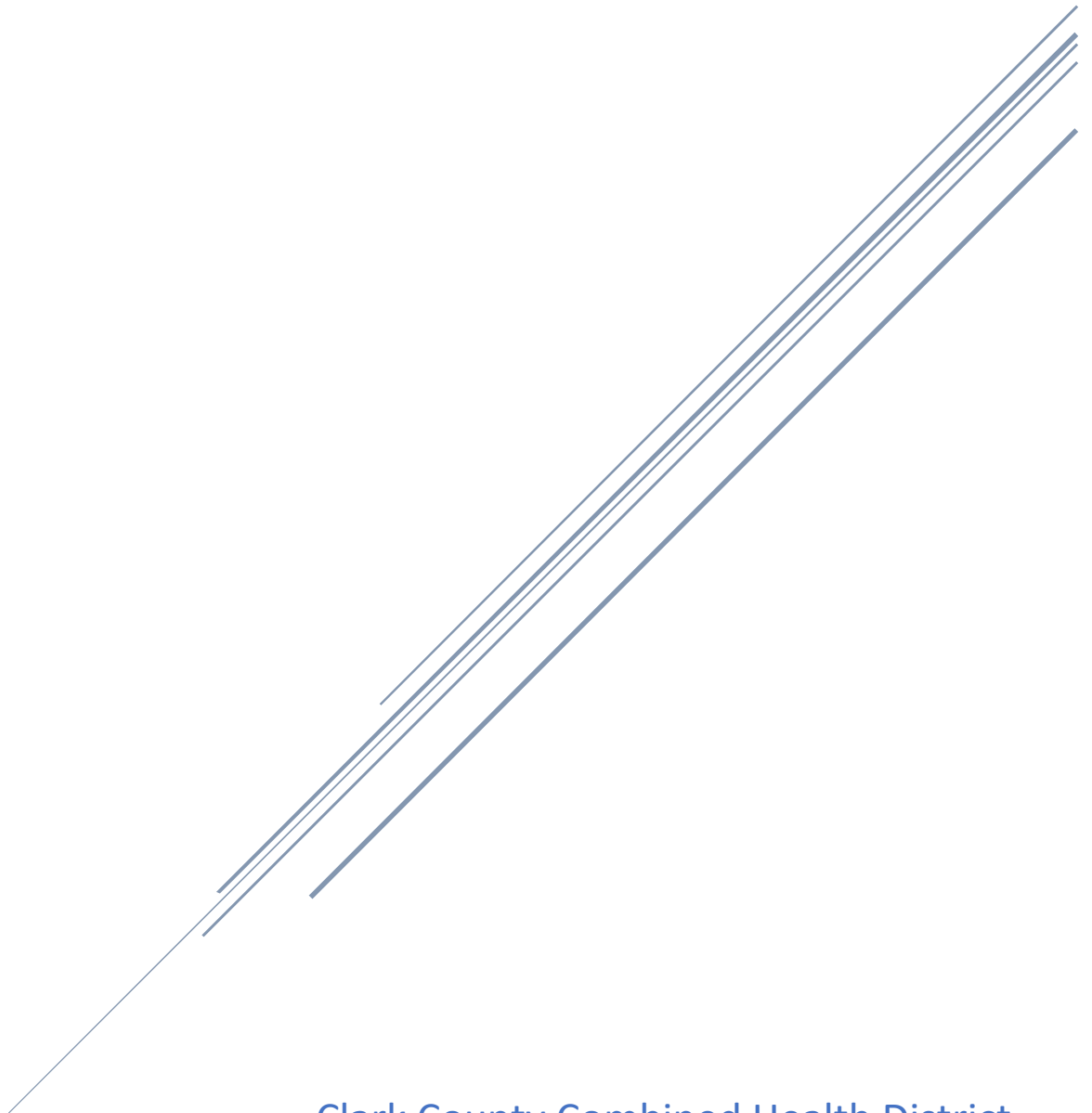


# COVID-19 2020-2021 REPORT

Clark County



Clark County Combined Health District

5/20/2022

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## General Background

Coronavirus disease 2019 (COVID-19) was first identified in Wuhan, China, in December 2019. It was caused by a new coronavirus, and since then multiple variants have emerged which included, delta and omicron variants, within the United States and worldwide. Although most people who have COVID-19 have mild symptoms, COVID-19 can also cause severe illness and even death. Some groups, including older adults and people who have certain underlying medical conditions, are at increased risk of severe illness<sup>1</sup>.

On February 11, 2020, the World Health Organization announced an official name for the disease that is causing the 2019 novel coronavirus outbreak. The new name of this disease is coronavirus disease 2019, abbreviated as COVID-19. In COVID-19, 'CO' stands for 'corona,' 'VI' for 'virus,' and 'D' for disease. Formerly, this disease was referred to as "2019 novel coronavirus" or "2019-nCoV."

On March 9, 2020, the first three case of COVID-19 were reported in the state of Ohio in Cuyahoga County. Later tests then revealed that the first case of COVID-19 was on February 15, 2020. On March 19, 2020 the first death of COVID-19 was reported in Ohio. Later tests then revealed the first COVID-19 death was March 17, 2020.

On March 18, 2020 the first COVID-19 case was reported for Clark County. On April 24, 2020, Clark County reported their first lab confirmed death of COVID-19. Later death certificate documentation showed the first probable death of COVID-19 occurred on March 2, 2020.

Within the United States, there are three COVID-19 vaccines available. Pfizer-BioNTech and Moderna are two dose series, while Janssen (Johnson & Johnson; J&J) is one dose. Pfizer received an emergency use authorization (EUA) from the FDA for individuals 16 years of age and older and began administration December 2020. The authorization was expanded to include 12- to 15-year-olds in May 2021. Moderna received an EUA from the FDA December 2020 for individuals 18 years of age and older. J&J received an EUA for individuals 18 years of age and older February 2021. The Pfizer EUA received an amendment September 2021 to allow a single booster to be administered 6 months after completion of the primary series. Moderna and J&J received their EUA amendments October 2021<sup>2</sup>.

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<sup>1</sup> [https://www.cdc.gov/coronavirus/2019-ncov/your-health/about-covid-19/basics-covid-19.html#:~:text=COVID%2D19%20\(coronavirus%20disease%202019,%2C%20a%20flu%2C%20or%20pneumonia.](https://www.cdc.gov/coronavirus/2019-ncov/your-health/about-covid-19/basics-covid-19.html#:~:text=COVID%2D19%20(coronavirus%20disease%202019,%2C%20a%20flu%2C%20or%20pneumonia.)

<sup>2</sup> Vaccine & Booster Timeline: <https://www.hhs.gov/coronavirus/covid-19-vaccines/index.html>

## Demographics

Between 2020 and 2021, Clark County had 21,197 lab confirmed cases and 4,157 probable cases of COVID-19, for a total of 25,354 cases.

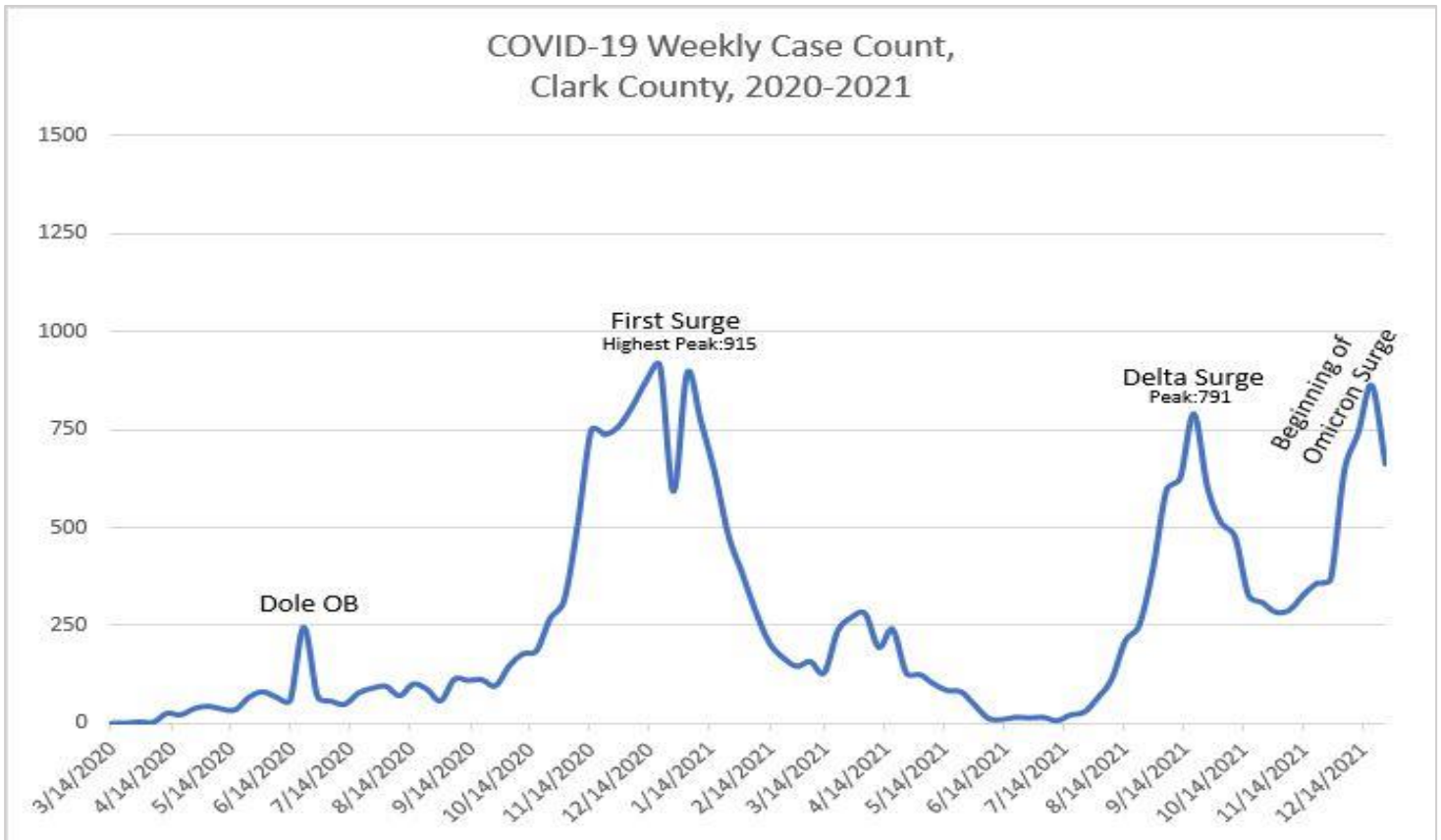


Figure 1 COVID-19 Weekly Case Count, 2020-2021, Clark County.

## Gender

45.3% of cases reported to Clark County identified themselves as male (Figure 2). As of 2021, males make up 48.5% of the Clark County population<sup>3</sup>.

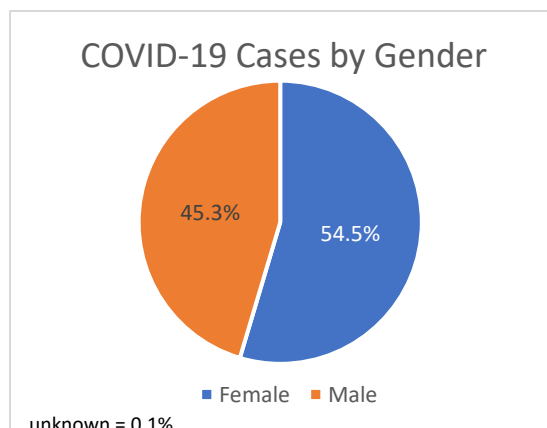


Figure 2 COVID-19 Cases by Gender, 2020-2021, Clark County.

<sup>3</sup> Clark County population: <https://www.census.gov/quickfacts/clarkcountyohio>

### Race and Ethnicity

78.36% of reported cases identify as non-Hispanic (Figure 3) and 68.24% identify as white (Figure 4). The 'Other' group includes American Indian, Alaskan Native, Asian, Native Hawaiian, and Pacific Islander due to small counts.

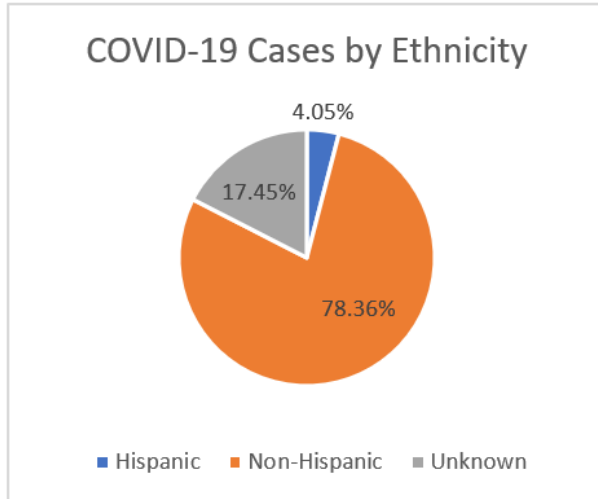


Figure 3 COVID-19 Cases by Ethnicity, 2020-2021, Clark County.

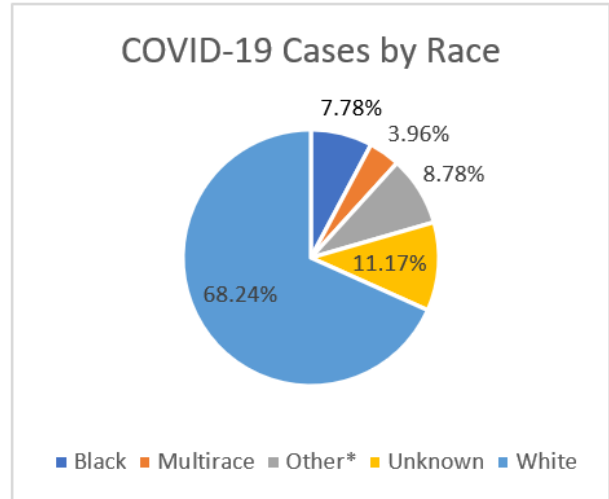


Figure 4 COVID-19 Cases by Race, 2020-2021, Clark County.

### Age

The average age of cases is 40.8 years of age, with a range from 0- to 102-years of age (Figure 5). The highest concentration of cases is within the 0-19 age group (4843 cases), while the lowest and second lowest is within 100+ (10 cases) and 90-99 (250), respectively.

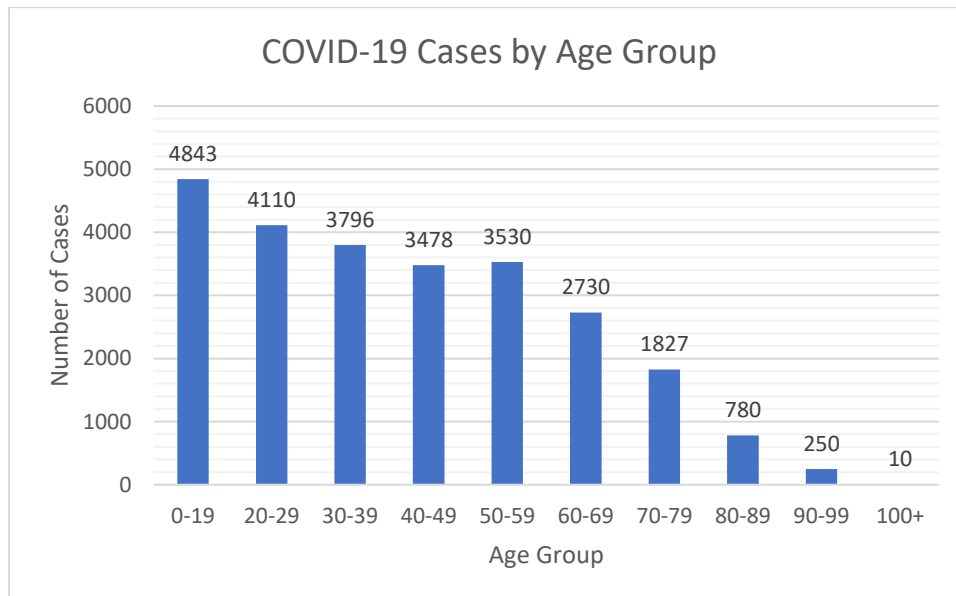


Figure 5 COVID-19 Cases by Age Group, 2020-2021, Clark County.

Zip Code

The zip code with the highest percentage of cases was 45503 (Springfield) with 25.6% of cases (Figure 6). The second highest zip code was 45505 (Springfield) with 14.2% of cases. Springfield is considered zip codes 45502, 45503, 45504, 45505, and 45506, overall Springfield comprises 73.5% of cases with Clark County. The highest percentage of cases that are not considered Springfield is 45344 (New Carlisle) with 11.1% of cases.

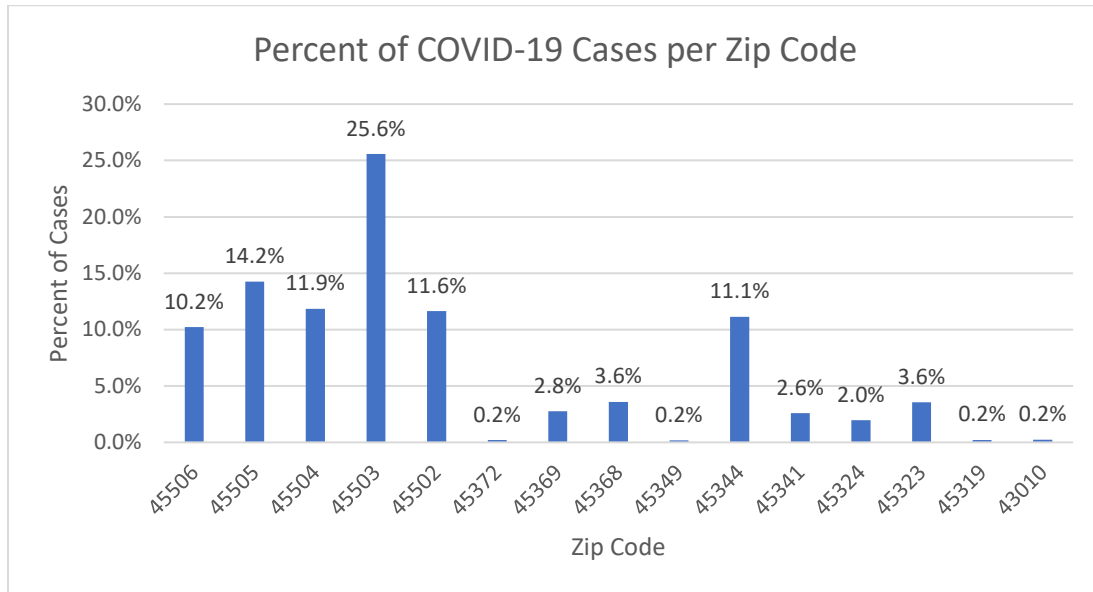


Figure 6 Percent of COVID-19 Cases per Zip Code, 2020-2021, Clark County.

Given the difference in population size per zip code, it is important to take a look at the percent of cases per zip code population (Figure 7). 43010 (Catawba) has the highest percentage of cases per population at 21.7% (59 cases, 272 population). 45369 (South Vienna) has the second highest percentage of cases per population at 19.4% (688 cases, 3545 population).

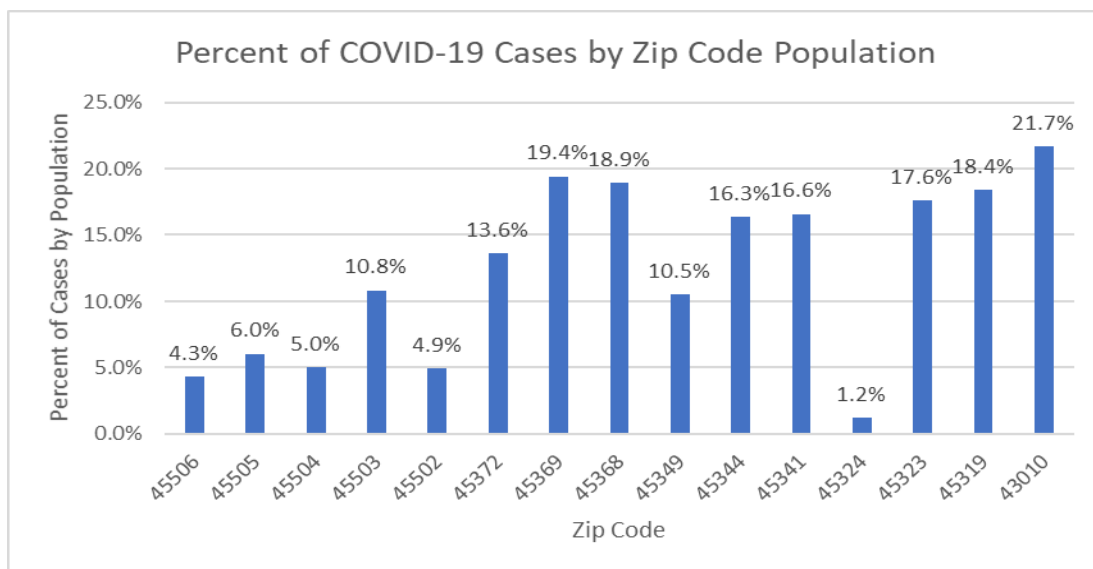


Figure 7 Percent of COVID-19 Cases by Zip Code Population, 2020-2021, Clark County.

The below table (Table 1) shows the percent of cases per zip code by population and by total cases. Only zip codes included within Clark County, OH are displayed

Table 1 Percent of COVID-19 Cases per Zip Code by Population and Total Cases, 2020-2021, Clark County.

<b>City</b>	<b>Zip Code</b>	<b>Case Count</b>	<b>Percent Cases per Population</b>	<b>Percent Cases per Total Cases</b>
<i>Springfield</i>	45506	2,543	4.3%	10.2%
<i>Springfield</i>	45505	3,542	6.0%	14.2%
<i>Springfield</i>	45504	2,948	5.0%	11.9%
<i>Springfield</i>	45503	6,357	10.8%	25.6%
<i>Springfield</i>	45502	2,895	4.9%	11.6%
<i>Tremont City</i>	45372	51	13.6%	0.2%
<i>South Vienna</i>	45369	688	19.4%	2.8%
<i>South Charleston</i>	45368	895	18.9%	3.6%
<i>North Hampton</i>	45349	45	10.5%	0.2%
<i>New Carlisle</i>	45344	2,771	16.3%	11.1%
<i>Medway</i>	45341	644	49.3%	2.6%
<i>Fairborn</i>	45324	488	1.2%	2.0%
<i>Enon</i>	45323	884	17.6%	3.6%
<i>Donnelsville</i>	45319	54	18.4%	0.2%
<i>Catawba</i>	43010	59	21.7%	0.2%

## COVID-19 Deaths

**\*\*2020 and 2021 Death Data is still Preliminary and subject to change.\*\***

In 2020, Clark County had a total of 209 COVID-19 deaths and in 2021 Clark County had a total of 235 deaths (Figure 8).

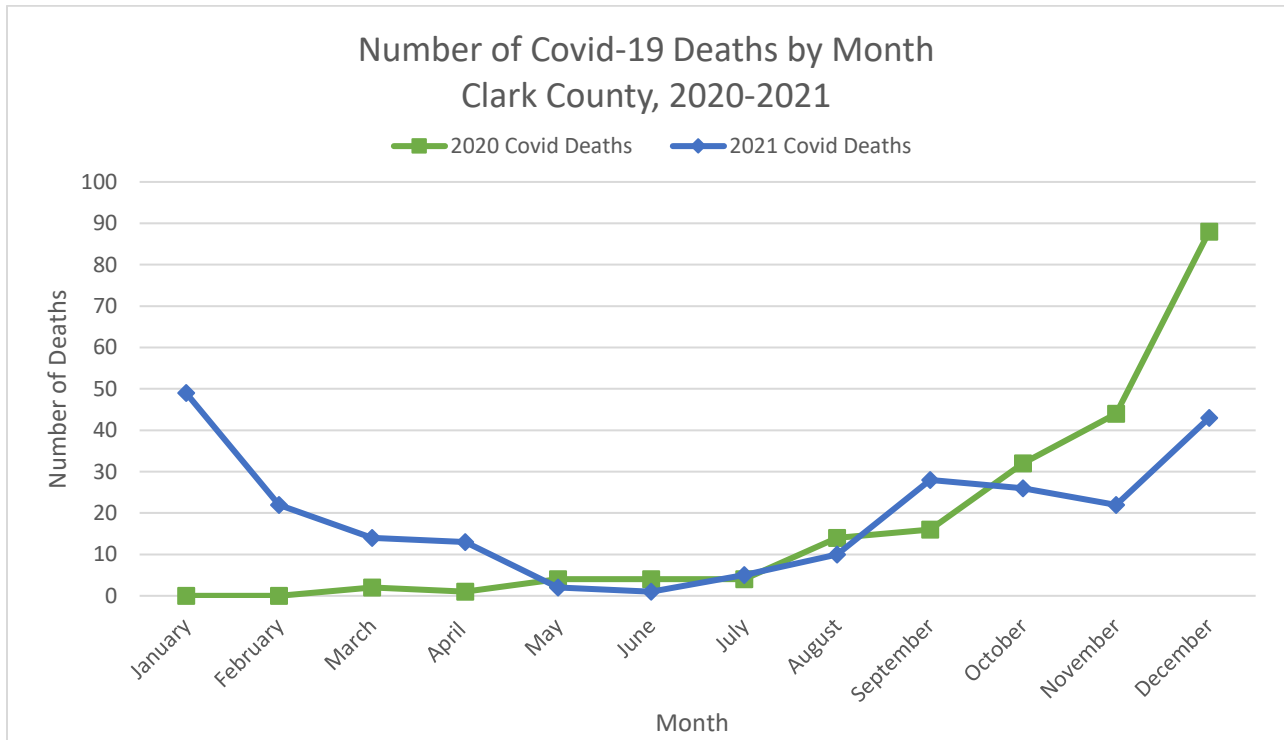


Figure 8 Number of COVID-19 Deaths by Month, 2020-2021, Clark County.

In 2020, the month of December had the greatest number of deaths reported (88) and for 2021, the month of January had the greatest number of deaths reported (49) (Table 2).



Table 2 COVID-19 Deaths by Month and Year, 2020-2021, Clark County.

Year	Month	Total # of Deaths	Long Term Care Deaths
2020	March	2	1
	April	1	1
	May	4	1
	June	4	2
	July	4	0
	August	14	11
	September	16	13
	October	32	24
	November	44	27
	December	88	44
2021	January	49	10
	February	22	6
	March	14	0
	April	13	3
	May	2	0
	June	1	0
	July	5	0
	August	10	0
	September	28	7
	October	26	1
	November	22	4
	December	43	3

The greatest number of long term care (LTC) deaths (44) happened in December of 2020. Of the combined total of 444 Covid deaths, 160 of the deaths were associated with a LTC facility (Figure 9).

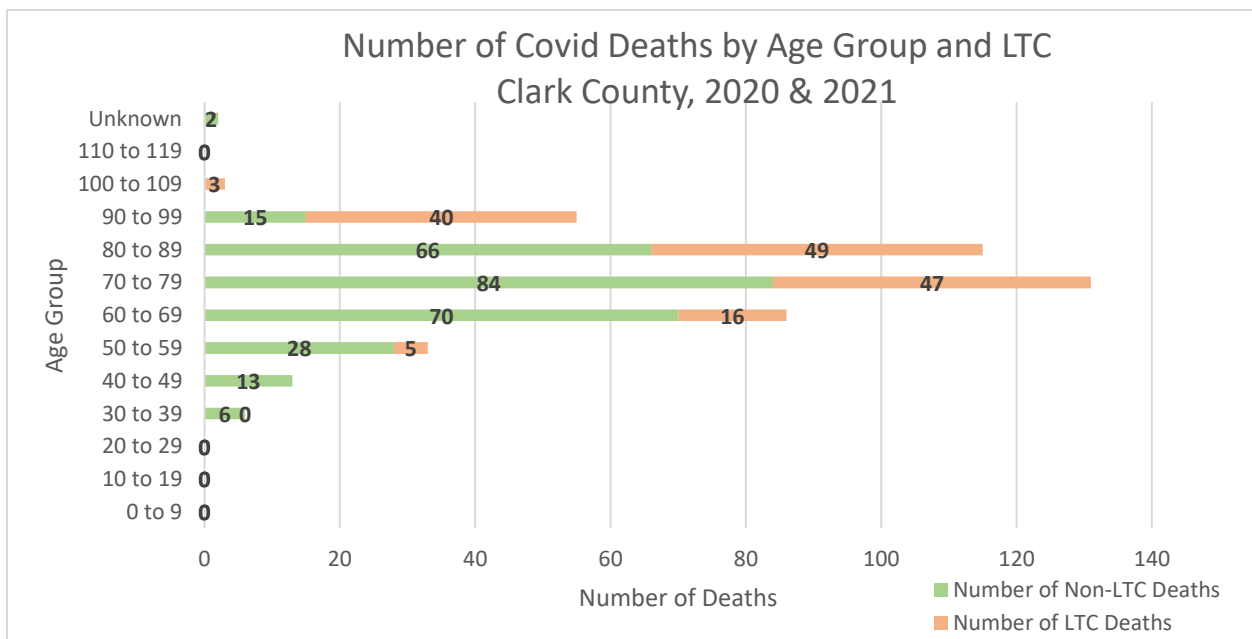


Figure 9 COVID-19 Deaths by Age Group and LTC, 2020-2021, Clark County.

## Variants of COVID-19

Viruses constantly change through mutation, and new variants of a virus are expected to occur over time. Sometimes new variants emerge and disappear. Other times, new variants emerge and start infecting people. Multiple variants of the virus that causes COVID-19 have been documented in the United States and globally during this pandemic. The press often uses the terms “variant,” “strain,” “lineage,” and “mutant” interchangeably. For the time being in the context of these variants, the first three of these terms (variant, strain, lineage) are generally being used interchangeably by the scientific community as well.

Clark County had many different Variants of the virus identified in the community over time in 2021 (Figure 10 & Table 3). These variants were named: Alpha, Epsilon, Delta, Gamma, Omicron and Unspecified Variants.

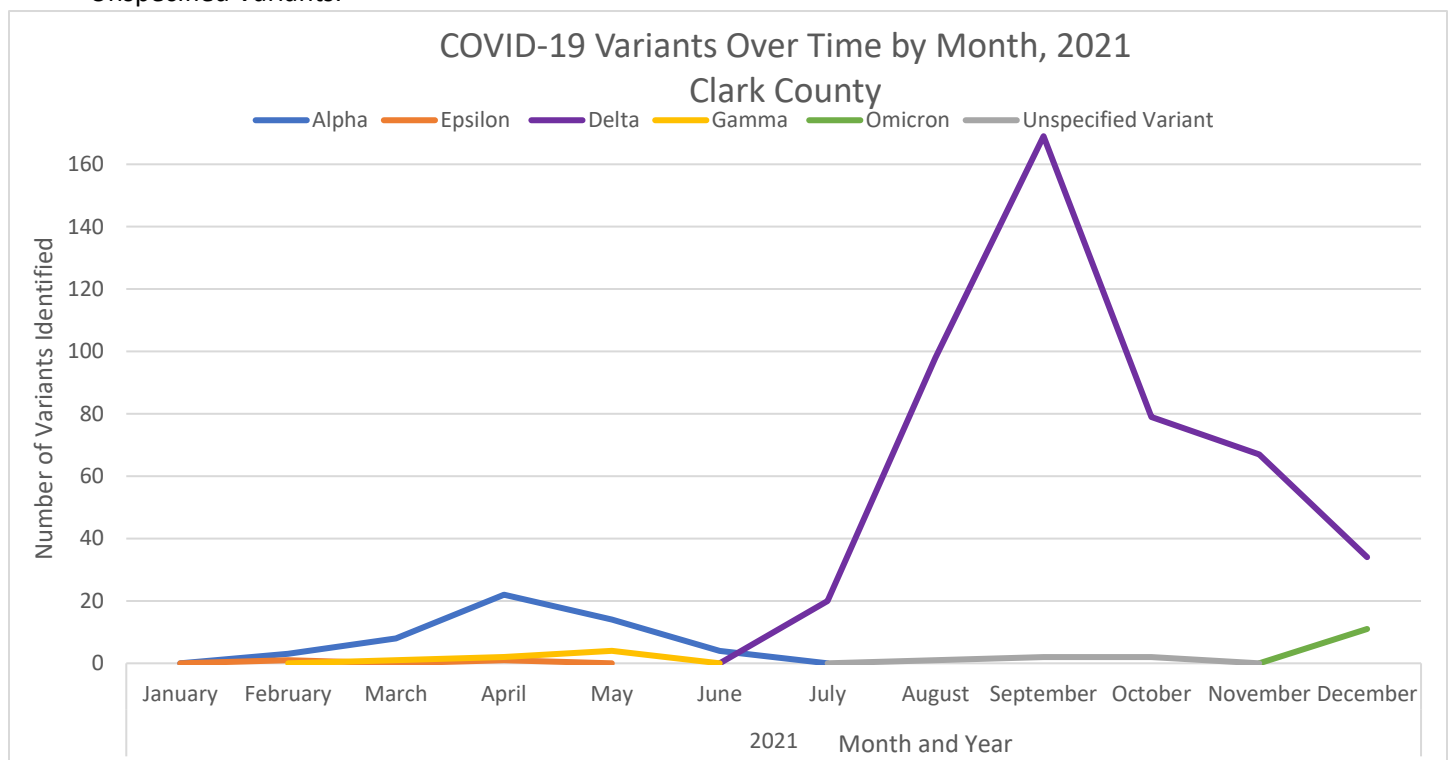


Figure 10 COVID-19 Variants over Time by Month, 2021, Clark County.

Table 3 COVID-19 Variants over Time by Month, 2021, Clark County.

Variant Strain	2021											
	January	February	March	April	May	June	July	August	September	October	November	December
Alpha	0	3	8	22	14	4	0	0	0	0	0	0
Epsilon	0	1	0	1	0	0	0	0	0	0	0	0
Delta	0	0	0	0	0	0	20	98	169	79	67	34
Gamma	0	0	1	2	4	0	0	0	0	0	0	0
Omicron	0	0	0	0	0	0	0	0	0	0	0	11
Unspecified Variant	0	0	0	0	0	0	0	1	2	2	0	0

## Multisystem Inflammatory Syndrome in Children (MIS-C)

Multisystem inflammatory syndrome in children (MIS-C) is a condition where different body parts can become inflamed, including the heart, lungs, kidneys, brain, skin, eyes, or gastrointestinal organs. Children with MIS-C may have a fever and various symptoms, including abdominal (gut) pain, vomiting, diarrhea, neck pain, rash, bloodshot eyes, or feeling extra tired. It is not yet known what causes MIS-C. However, many children with MIS-C had the virus that causes COVID-19 or had been around someone with COVID-19.

From 2020-2021, Clark County had A total of 8 cases of MIS-C (Table 3). Of the 8 cases, 62.5% of the cases identified as Black and 100% of the cases identified as non-Hispanic. The average age of the MIS-C cases was 10 and 50% of the cases fell within the 10-12 years old age group.

Table 4 MIS-C Case Demographic Breakdown, 2020-2021, Clark County.

<b>MIS-C Case Demographics</b>	
<b>Total Number of MIS-C Cases</b>	8
<b>Gender</b>	<b>Percentage (%)</b>
Male	50.0%
Female	50.0%
<b>Race</b>	
White	37.5%
Black	62.5%
<b>Ethnicity</b>	
Non-Hispanic	100.0%
Hispanic	0.0%
<b>Age Group</b>	
0-3 Years Old	12.5%
4-6 Years Old	12.5%
7-9 Years Old	12.5%
10-12 Years Old	50.0%
12-15 Years Old	0.0%
15-18 Years Old	12.5%
<b>Average Age</b>	10