



Public Health
Prevent. Promote. Protect.

City of Quincy Health Department

City of Quincy COVID-19 Data Visualizations 2021

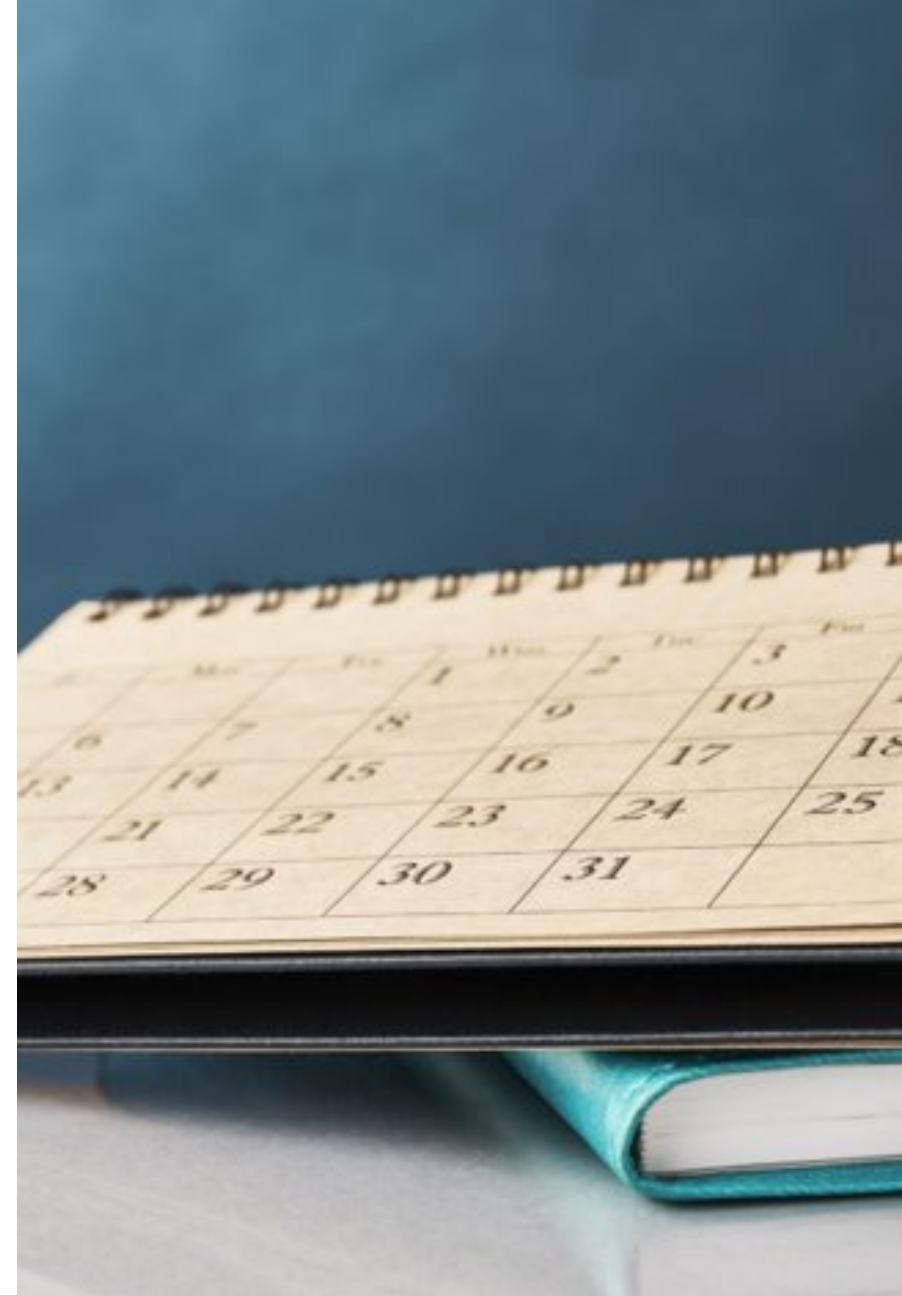
Presentation created by:

Quincy Health Department COVID-19 Team

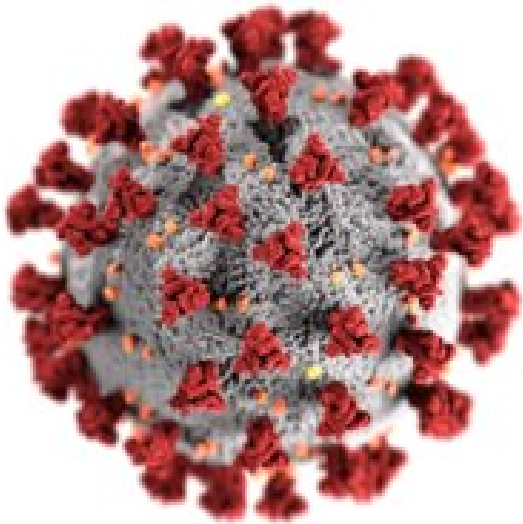
Updated: January 2023

Agenda

- About COVID-19
- Quincy Public Health Response
- COVID-19 timeline
- Methods for data collection
- Highlights and data visuals for 2021



About COVID-19 – Basics



- COVID-19 is a disease caused by a virus called SARS-CoV-2.
- COVID-19 is spread in three main ways:
 - Breathing in the air when close to an infected person who is exhaling small droplets and particles that contain the virus.
 - Having these small droplets and particles that contain viruses land on the eyes, nose, or mouth, especially through splashes and sprays like a cough or sneeze.
 - Touching eyes, nose, or mouth with hands that have the virus on them.

About COVID-19 – Symptoms

- Anyone can have mild to severe symptoms.
- Symptoms may appear 2-14 days after exposure to the virus.
- However, it is possible for people with COVID-19 to spread the virus to others up to 48 hours before they have symptoms.
- COVID-19 symptoms include:
 - Fever or Chills
 - Cough
 - Shortness of breath or difficulty breathing
 - Fatigue
 - Muscle or body aches
 - Headache
 - New loss of taste or smell
 - Sore throat
 - Congestion or runny nose
 - Nausea or vomiting
 - Diarrhea

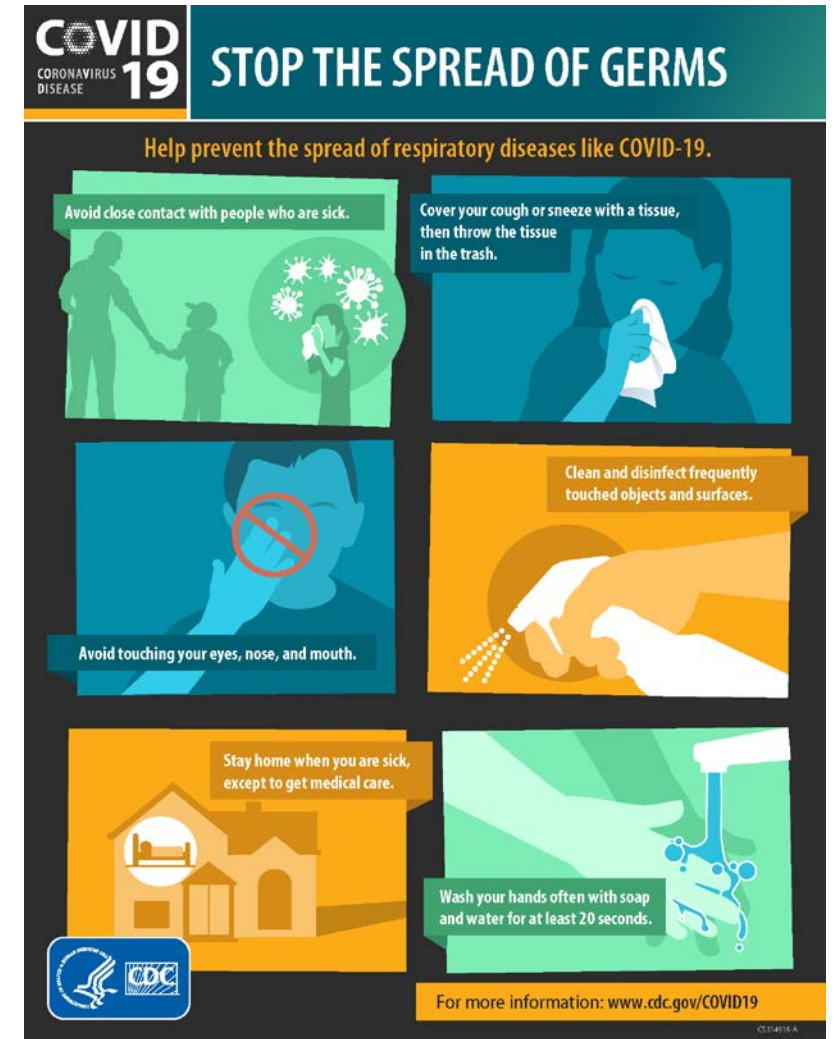
About COVID-19 – Testing

- Rapid antigen test ([At-home test](#))
 - A Rapid Antigen Test is a COVID-19 test that can be bought at a pharmacy, retail store or online.
 - It is usually taken at home, and you can get results in as little as 15 minutes.
- PCR
 - A PCR test is a clinically administered test, where a swab of your nose, throat, or a saliva sample is taken and then sent to a lab.
 - Results for a PCR test can take several days to come back.



About COVID-19 – Prevention

- Wash your hands often with soap and warm water or use an alcohol-based hand sanitizer.
- Avoid touching your eyes, nose, and mouth.
- Clean things that are frequently touched (like doorknobs and countertops) with household cleaning spray or wipes.
- Cover your mouth when you cough or sneeze. Use a tissue or your inner elbow, not your hands.
- Stay home if you are sick and avoid close contact with others.
- Social distance.
- Mask up.
- Get vaccinated.





Quincy Public Health Response

- COVID-19 Vaccine Clinics, COVID-19 education, community outreach.
- Since September 2021, COVID-19 vaccine clinic events have been held at the Quincy Health Department. Our partners include:
 - Manet Community Health, Dana Farber Cancer Institute, Brigham and Women's Hospital, Brewster Ambulance Service, Mass General Hospital, and Walgreens.
- **1,829 individuals** received the COVID-19 vaccine through the Quincy Health Department.
- The City of Quincy vaccination rates (updated 1/26/2023)
 - At least one dose Vaccine: 95%
 - Fully Vaccinated: 83%
 - 1st Booster Rate: 54%
 - 2nd Booster Rate: 23%

About COVID-19 – Variants of Concern



VARIANT OF CONCERN

Omicron

Original Lineage: B.1.1.529

Currently Circulating Lineages: BA.2, BA.4 and BA.5

The Omicron variant, like other variants, is made up of a number of lineages and sublineages.

These lineages are often very similar to each other; however, there may be differences between lineages that affect the behavior of the virus. Visit CDC's [COVID Data Tracker](#) for the most current data on circulating variants.

Omicron spreads more easily than earlier variants, including the Delta variant.

Anyone with Omicron infection, regardless of vaccination status or whether or not they have symptoms, can [spread the virus to others](#). Data suggest that Omicron can cause [reinfection](#), even in people who have recovered from COVID-19.

Symptoms are similar to previous variants

COVID-19 vaccination status, [other health conditions](#), [age](#), and history of prior infection can affect the presence and severity of symptoms.

Omicron causes less severe illness and death in general, according to data

However, a surge in cases may lead to increases in hospitalizations and deaths.

Vaccines help prevent severe illness, hospitalizations, and death

[Breakthrough infections](#) in people who are vaccinated are expected. The emergence of the Omicron variant further emphasizes the importance of vaccination and boosters.

Antiviral treatments are effective

Some, but not all, [monoclonal antibody treatments](#) remain effective against Omicron. Public health agencies work with healthcare providers to ensure that effective treatments are used appropriately to treat patients.



COVID-19 Vaccine Timeline

The first deliveries of COVID-19 vaccine initiated.

Dec 2020

Apr 2021

The White House announced that all people age 16 and older are eligible for COVID-19 vaccine

FDA approved the first COVID-19 vaccine, Comirnaty (COVID-19 Vaccine, mRNA) previously known as Pfizer-BioNtech COVID-19 vaccine

Aug 2021

Oct 2021

Following primary vaccination with a separate COVID-19 vaccine, the FDA approved the use of a heterologous (or "mix-and-match") booster dose of an available vaccine individuals

FDA approves second COVID-19 vaccine: Moderna COVID-19 Vaccine, marketed as Spikevax.

Jan 2022

Jun 2022

FDA authorized Moderna and Pfizer-BioNtech COVID-19 vaccines for children down to 6 months of age

A secretarial order about bivalent COVID-19 booster dosages for those aged 5 and older was released by the HHS Secretary.

Oct 2022

Methods for Data Collection



- Data source: Massachusetts Virtual Epidemiologic Network (MAVEN) Electronic Disease Surveillance System (EDSS)
- Data based on *CONFIRMED cases between 1/1/2021-12/31/2021.
- Any other information besides PCR test result is based on case investigation via phone interview from the Local Board of Health and the State Community Tracing Collaborative.
- *confirmed case defined as case with positive PCR test result

2021 COVID-19 Data Highlights

➤ **Population size: 101,636**

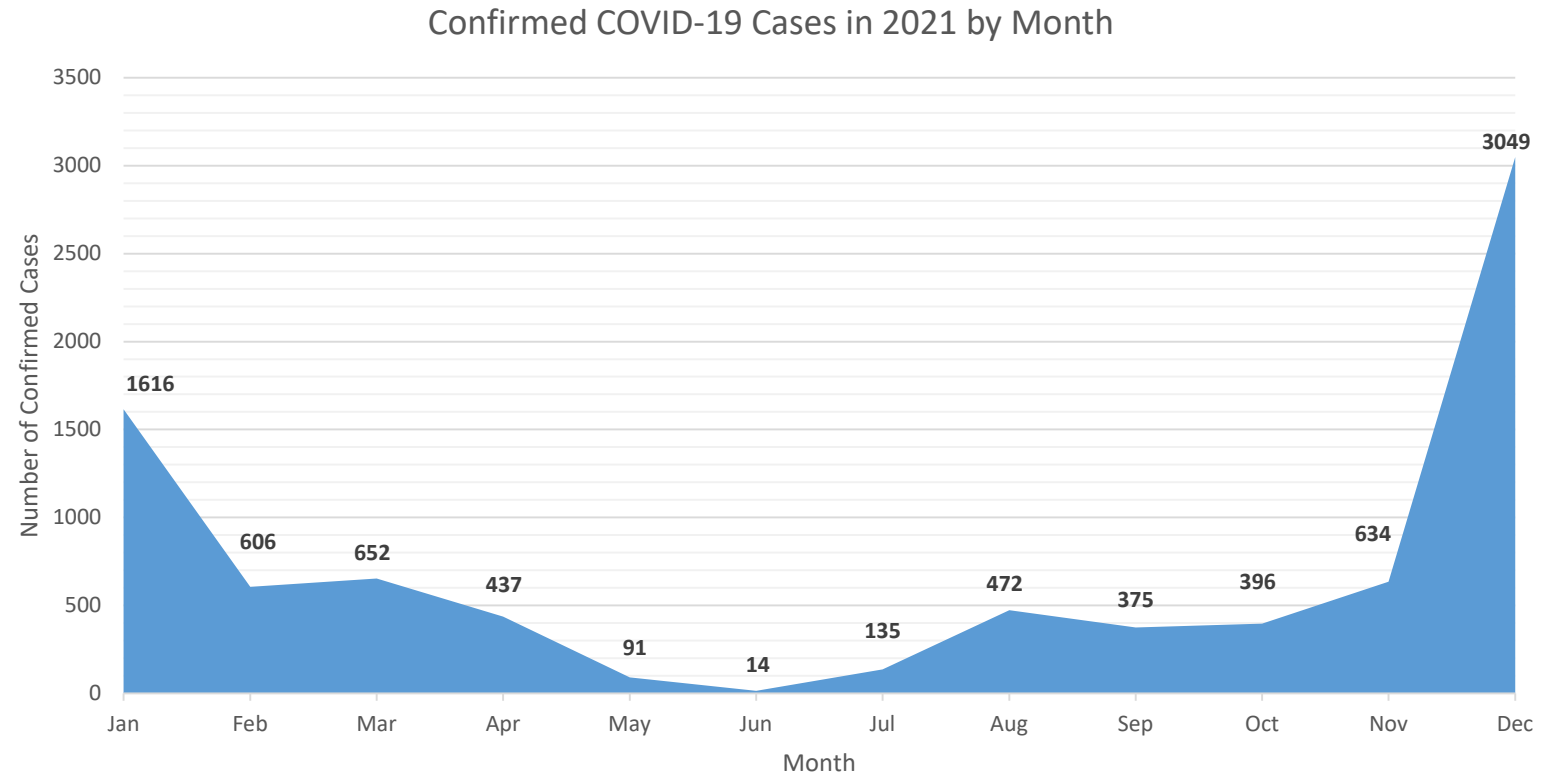
➤ (Quincy population estimated by Census on April 1st, 2020)

➤ **Percentage of Confirmed cases among Quincy Population: 8.3%**

Highlights	Numbers
Total confirmed cases	8,477
Total confirmed hospitalizations	91
Total confirmed deaths	68

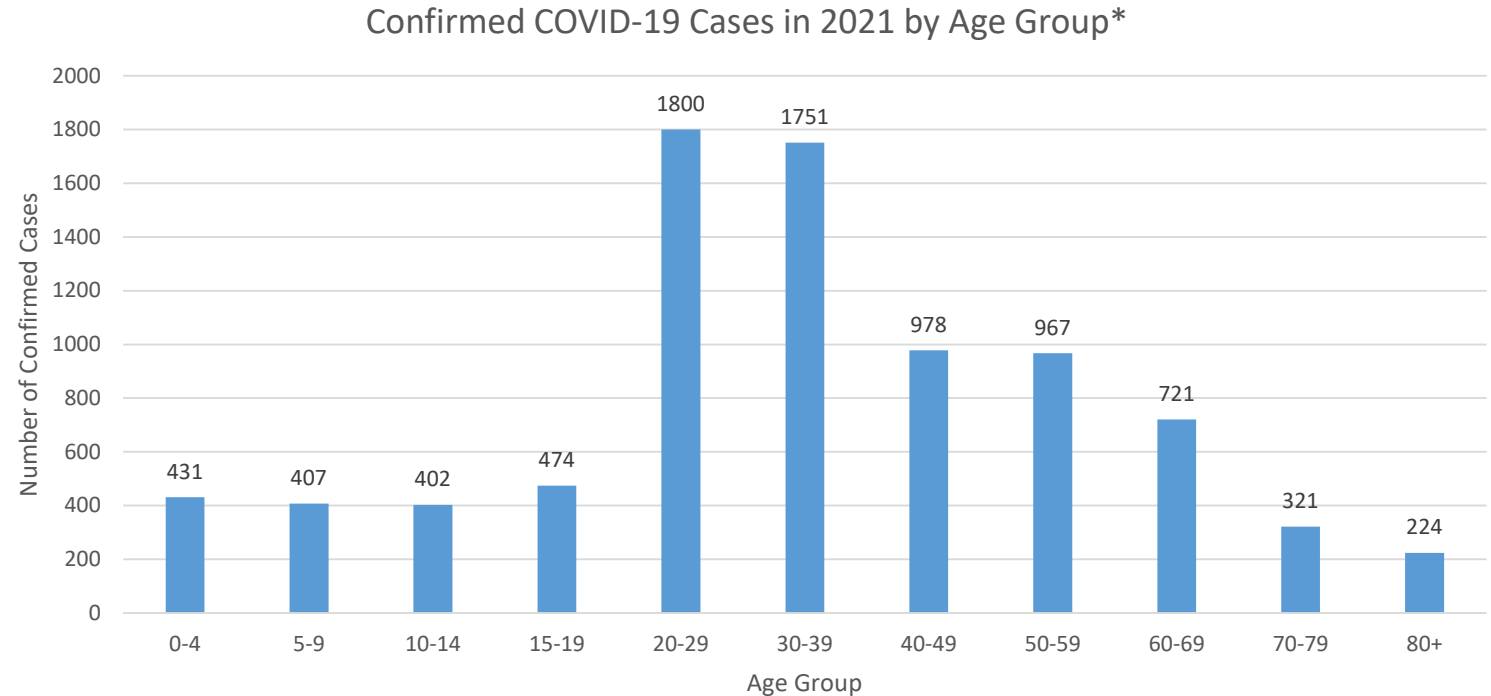
Monthly Confirmed Cases in 2021

Month	Number of Confirmed Cases
Jan	1616
Feb	606
Mar	652
Apr	437
May	91
Jun	14
Jul	135
Aug	472
Sep	375
Oct	396
Nov	634
Dec	3049
Total	8477



Case Distribution by Age Group in 2021

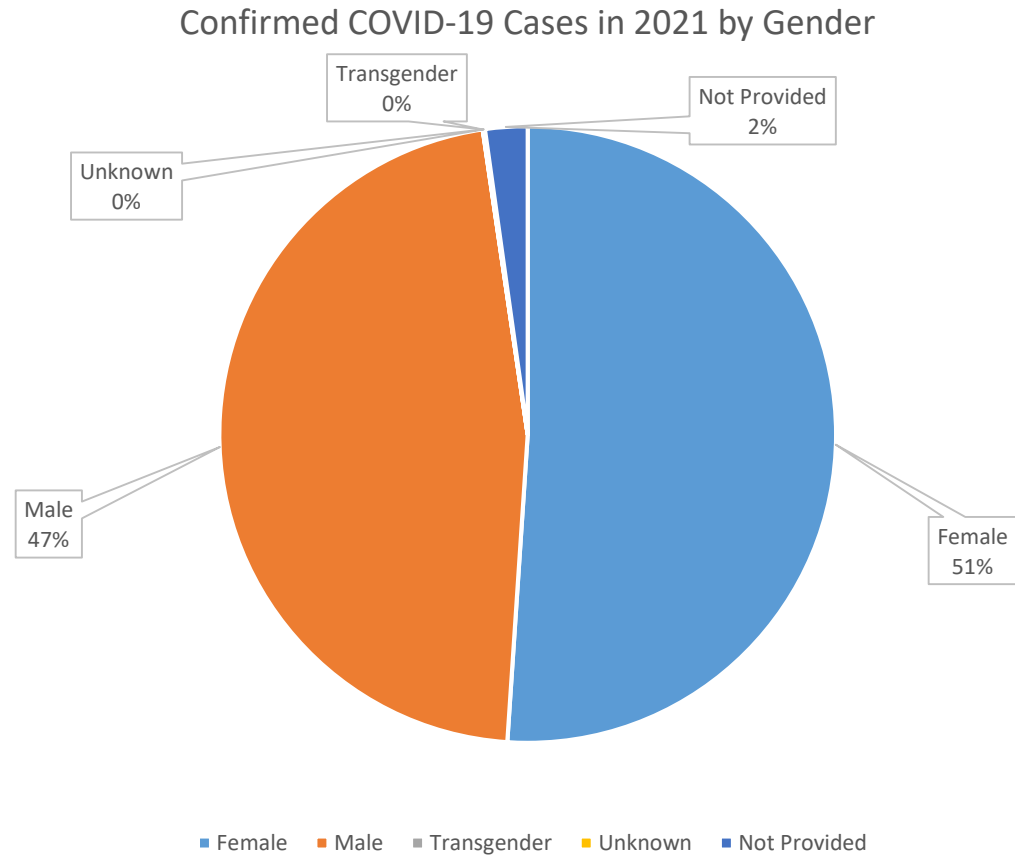
Age Group	Number of Confirmed Cases
0-4	431
5-9	407
10-14	402
15-19	474
20-29	1800
30-39	1751
40-49	978
50-59	967
60-69	721
70-79	321
80+	224
Not Provided*	1
Total	8477



*One case did not provide age, total of 8476 cases analyzed

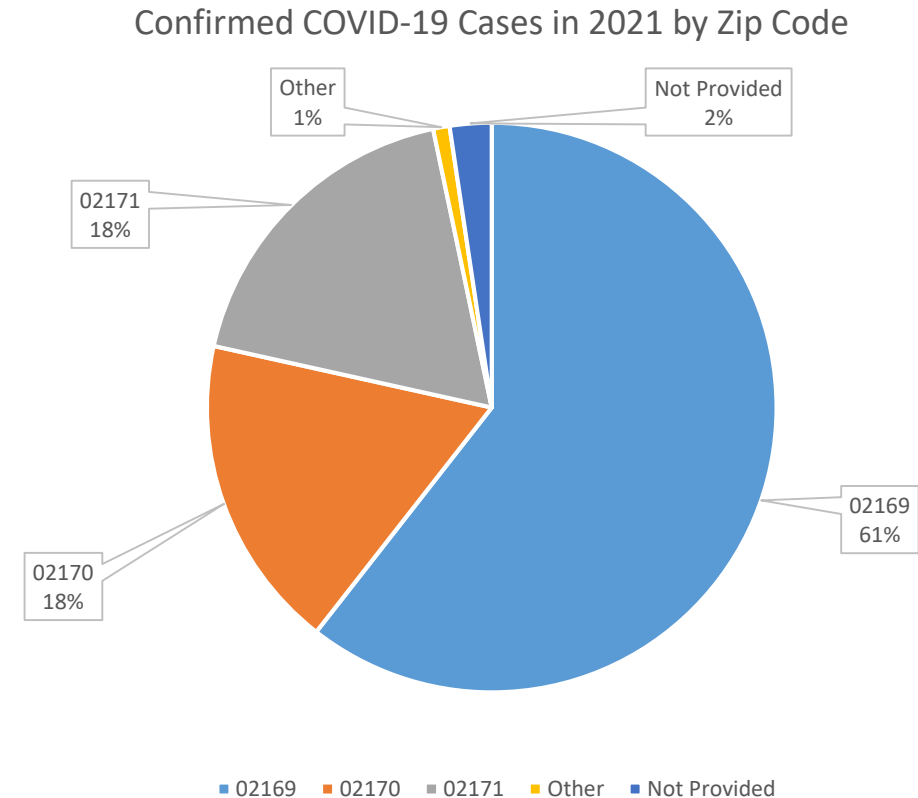
Case Distribution by Gender in 2021

Gender	Number of Confirmed Cases
Female	4328
Male	3951
Transgender	1
Unknown	9
Not Provided	188
Total	8477



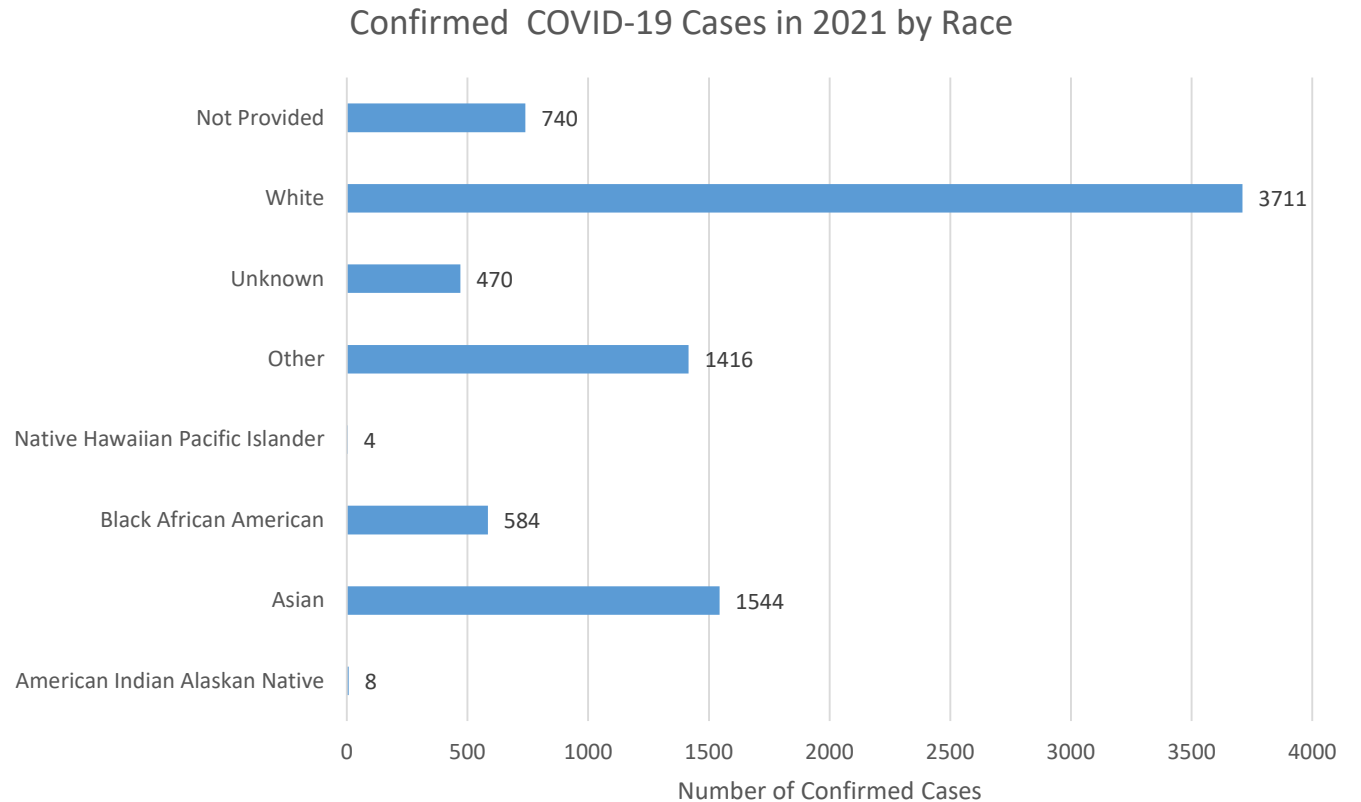
Case Distribution by Zip Code in 2021

Zip Code	Number of Confirmed Cases
02169	5134
02170	1518
02171	1545
Other	79
Not Provided	201
Total	8477



Case Distribution by Race in 2021

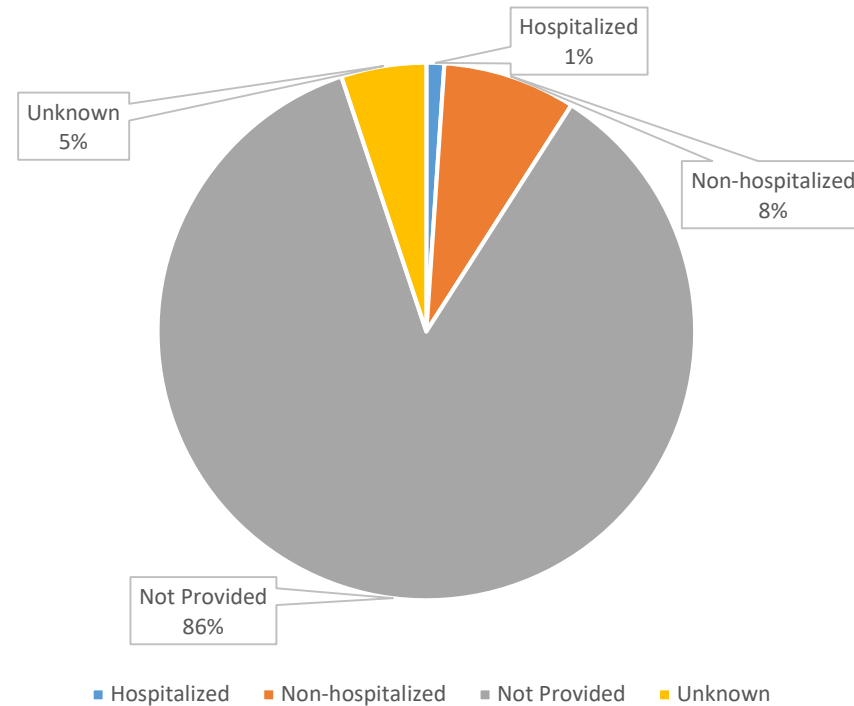
Calculated Race	Number of Confirmed Cases
American Indian Alaskan Native	8
Asian	1544
Black African American	584
Native Hawaiian Pacific Islander	4
Other	1416
Unknown	470
White	3711
Not Provided	740
Total	8477



Case Distribution if Hospitalized in 2021

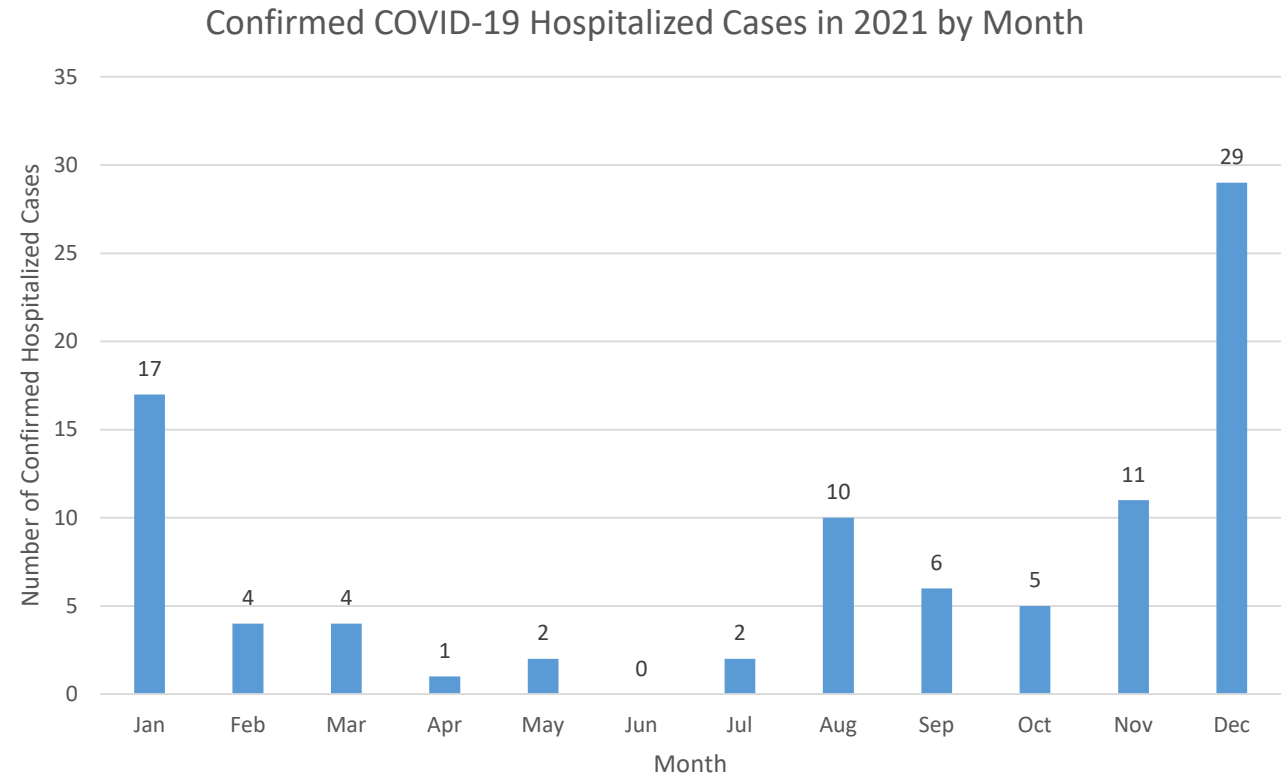
Hospitalized	Number of Confirmed Cases
Hospitalized	91
Non-hospitalized	678
Not Provided	7274
Unknown	434
Total	8477

Confirmed COVID-19 Cases in 2021 Hospitalization



Number of Hospitalizations by Month in 2021

Month	Number of Confirmed Hospitalized Cases
Jan	17
Feb	4
Mar	4
Apr	1
May	2
Jun	0
Jul	2
Aug	10
Sep	6
Oct	5
Nov	11
Dec	29
Total	91

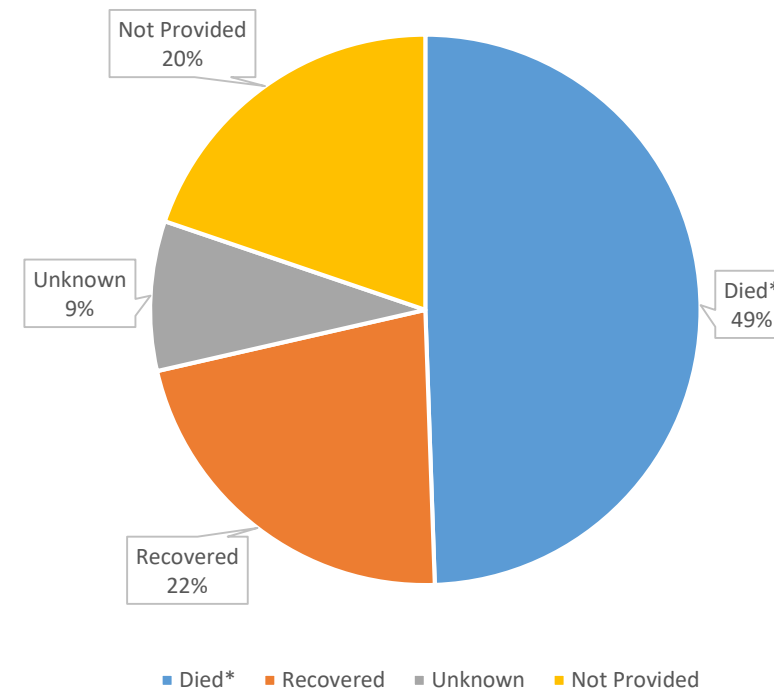


Hospitalized Case Outcomes in 2021

Outcome	Number of Confirmed Hospitalized Cases
Died*	45
Recovered	20
Unknown	8
Not Provided	18
Total	91

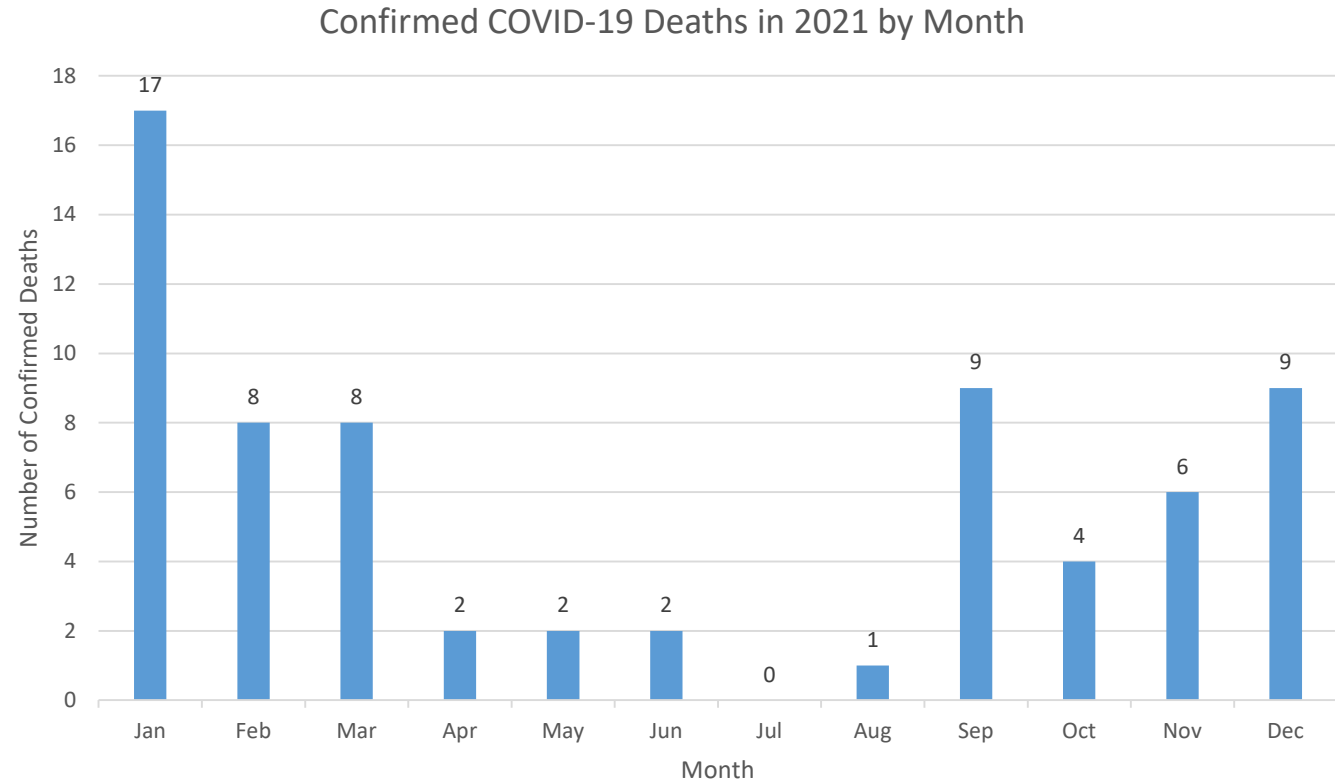
*Cause of death not specific to COVID-19, please refer to COVID Death Report for specific cause of death from COVID-19

Confirmed COVID-19 Hospitalized Cases in 2021 and Outcomes



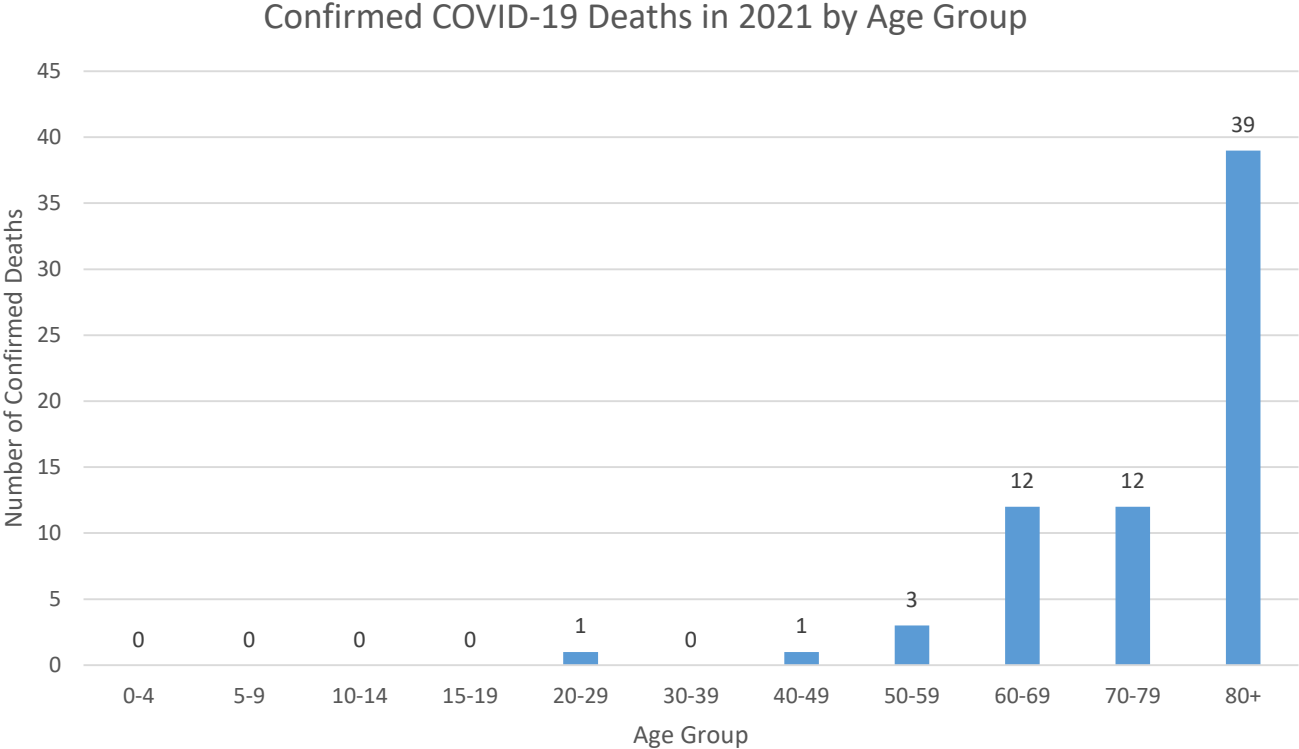
Monthly Confirmed Deaths in 2021

Month	Number of Confirmed Deaths
Jan	17
Feb	8
Mar	8
Apr	2
May	2
Jun	2
Jul	0
Aug	1
Sep	9
Oct	4
Nov	6
Dec	9
Total	68



Death Distribution by Age Group in 2021

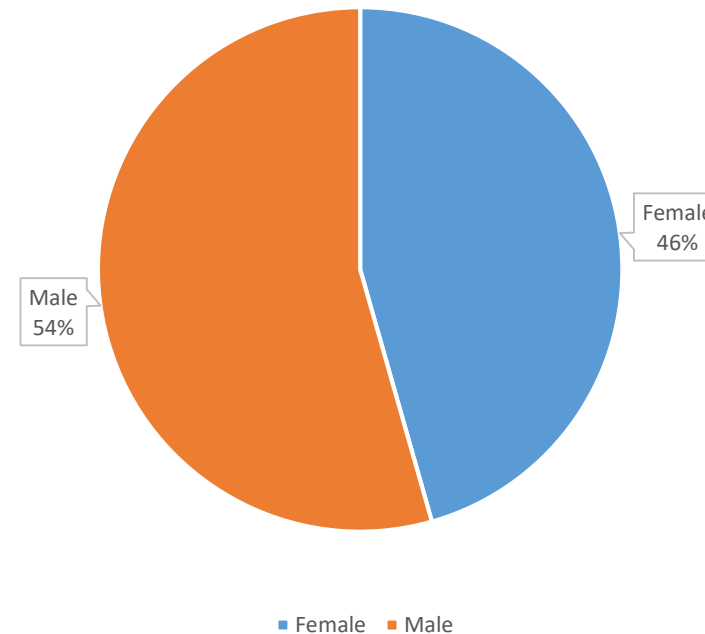
Age Group	Number of Confirmed Deaths
0-4	0
5-9	0
10-14	0
15-19	0
20-29	1
30-39	0
40-49	1
50-59	3
60-69	12
70-79	12
80+	39
Total	68



Death Distribution by Gender in 2021

Gender	Number of Confirmed Deaths
Female	31
Male	37
Total	68

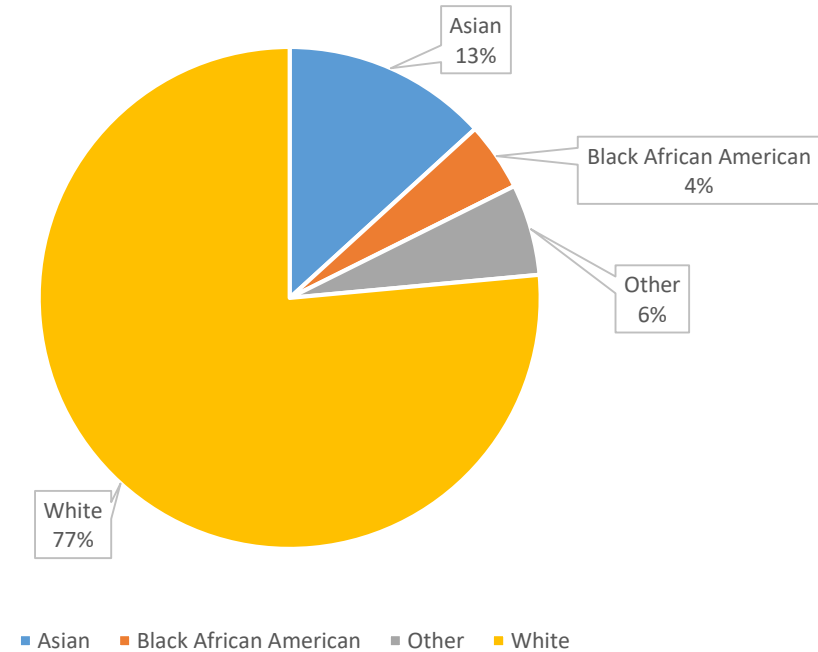
Confirmed COVID-19 Deaths in 2021 by Gender



Death Distribution by Race in 2021

Calculated Race	Number of Confirmed Deaths
Asian	9
Black African American	3
Other	4
White	52
Total	68

Confirmed COVID-19 Deaths in 2021 by Race



Reference

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