COVID-19 Surveillance Summary

Carson City

April 17 – April 30, 2022

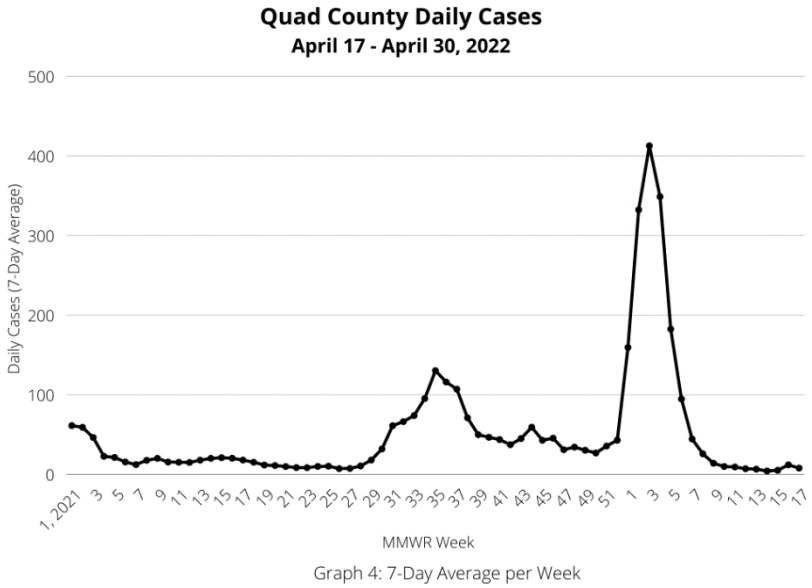
Contact Tracing and Disease Investigation Update

Beginning on August 8, 2021, Carson City Health and Human Services COVID-19 Disease Investigation Team began prioritizing pediatric and school staff associated cases to assist schools in their role in providing safe environment for students and staff. From April 17 – April 30, 2022, the Carson City Health and Human Services COVID-19 Disease Investigation Team was able to attempt contact with 91% of school associated cases within forty-eight hours. Additionally, they were able to attempt contact with 14% of all cases in the two-week period within forty-eight hours and successfully contacted 47%. The Investigation Team continues to utilize the more expanded investigation to collect information such as symptomology, medical history, and refocused exposure questions. As always, the information reported here is based on preliminary laboratory findings and completed survey investigations and does not necessarily represent all cases during this two-week period.

CCHHS continues to partner with the Nevada Resilience Project, who reaches out to cases, close contacts, and other members of the community impacted by COVID-19 that were identified as having challenges associated with the pandemic including, but not limited to, managing work or school, social isolation, mental health, and resource navigation. During this two-week period, the Resilience Ambassadors identified 3 individuals that could benefit from their services and have done several community events.

Quad-County Area Demographics

Across the Quad-County area (Carson City, Douglas, Lyon, and Storey Counties), there were 122 new COVID-19 cases in the two-week period from April 17 – April 30, 2022. This is a 18% increase from the previously reported two-week period. The daily cases reported, based on a seven-day average, over this two-week period was 17 (Graph 1). This indicates that, on average, there have been 17 new cases each day throughout the Quad-County area.



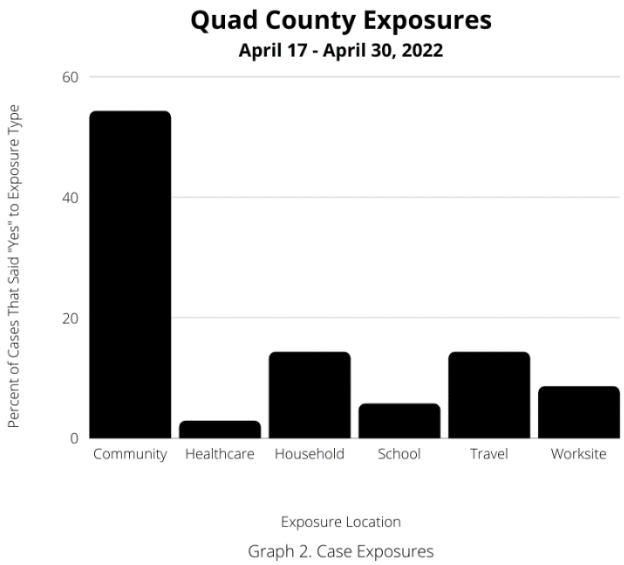
Graph 4: 7-Day Average per Week

Oftentimes, lab reports are received with incomplete data and our survey data is on a delay. As such, the following demographic data has a significant percentage of unknown or missing information. The average age across all counties was 45 years old with a range of less than one years old to 96 years old. Of the cases that reported their gender, 56% of cases were female, 44% were male. Of the cases that reported their race, 85% were reported as White, 4% of cases reported as other, 2%

reported American Indian or Alaskan Native, none reported as Native Hawaiian or Pacific Islander, 1% reported Black or African American, 2% reported Asian, and 2% preferred not to answer. Of those who reported their ethnicity, 78% reported as Non-Hispanic or Latino/a, 13% reported as Hispanic or Latino/a, and 9% is unknown. There were two known hospitalizations across all counties during this two-week period. This is an 60% decrease from the previous two-week period. According to the Nevada Hospital Association report on April 27, 2022, hospitalizations are stagnant in Northern Nevada. There were no COVID-19 related deaths across the four counties. Morbidity data is often delayed, so this number only represents the data that has been made available for this two-week period.

Quad-County Area Exposure

Among cases with complete information, the most common, known COVID-19 exposures were community, travel, and household (Graph 2). Cases can have more than one exposure. The information on the graph and below indicates the percentage of cases that said "yes" to each question, independently. Fifty-four percent of cases had community-related exposure,14% of cases had a community-related exposure, and 14% of cases had a travel-related exposure. For community exposures, events can include family gatherings, weddings, funerals, birthday parties, political events, or any other similar activity. Community exposure, as defined by the state, also refers to individuals that did not know where they were exposed.



Graph 2. Case Exposures

Quad-County Area Schools

Carson City, Douglas County, and Lyon County school districts are using the Abbott BinaxNOW, a rapid antigen test that detects a specific viral antigen for the virus that causes COVID-19. In alignment with the CDC guidance, schools are utilizing the BinaxNOW for faculty and students to quickly isolate positive individuals and end quarantine for close contacts after seven days. School cases represented in this report are PCR, molecular positive cases, the Abbott BinaxNOW test, and other FDA approved antigen tests.

There were six student cases investigations completed from April 17 – April 30, 2022. Three of these cases attended school while infectious. There was one school faculty case who tested positive for COVID-19. The faculty case did not attend school while infectious.

COVID-19 Variants of Concern

The Nevada State Public Health Laboratory (NSPHL) conducts genome sequencing from a sample of confirmed COVID-19 cases as part of disease surveillance which helps identify new and emerging variants. The emergence of new variants is a natural occurrence in infectious diseases. According to the CDC, there are currently two COVID-19 variants of concern across the United States. Knowledge of emerging SARS-CoV-2 variants is quickly evolving, however there is evidence indicating that these variants are more transmissible. According to the Nevada State Public Health Lab, approximately one hundred percent of all the samples sequences in Nevada are Omicron (B.1.1.529). The World Health Organization declared the Omicron

(B.1.1.529) a variant of concern on November 26, 2021. Additionally, sequencing is conducted using only samples submitted to the NSPHL, which may not always include commercial laboratory samples and does not include Abbott BinaxNOW tests or other rapid antigen tests.

Quad-County Vaccinations

According to the Nevada State COVID-19 Dashboard, approximately 55% of Quad County residents are fully vaccinated as of April 27, 2022. Carson City Health and Human Services continues to work with community stakeholders on vaccination outreach to increase vaccination rates among the community.

Quad-County Breakthrough Cases

Vaccine breakthrough cases are U.S. residents with a SARS-CoV2 RNA or antigen detected in a respiratory specimen collected greater than or equal 14 to days after they have completed all recommended doses of an FDA authorized COVID-19 vaccine. A complete vaccination is two doses of the Pfizer or Moderna vaccine or one dose of the Johnson and Johnson (Janssen) vaccine. As of December 7, 2021, Quad County residents between the ages of 5-11 are eligible to be counted as a breakthrough case. This age group has been included in the breakthrough numbers as of December 7, 2021. Breakthrough cases make up of 27% of all reported cases since February 1. Since February 1, 2021, the overall vaccinated case rate for the Quad County region ages 5 years and older is 63 per 1k population. Since February 1, 2021, the overall unvaccinated case rate for the Quad County region, for ages 5 years and older, is approximately 239 out of 1k. This means that in the Quad-County region, the rate for unvaccinated people among those 5 years and older is 4 times that of fully vaccinated people 5 years and older. It is important to note that no vaccine is 100 percent effective at preventing illness but proves to be highly effective at protecting people against severe illness and death. As the number of fully vaccinated people increases and community transmission increase, breakthrough cases are expected rise. Getting vaccinated is the best way to protect yourself and slow the spread of COVID-19.

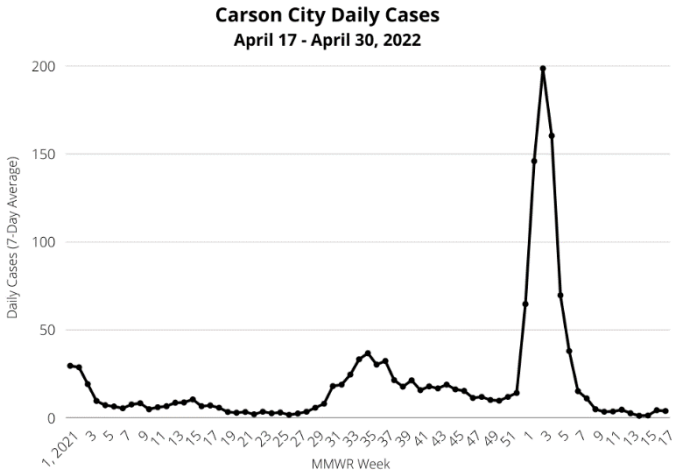
Carson City Surveillance Summary

From April 17 – April 30, 2022, there were 46 confirmed cases reported in Carson City. This represents approximately 38% of all Quad-County cases during this two-week period and is a 64% increase from the previous two-week period. The zip codes in Carson City that reported the highest number of cases during this two-week period was zip code 89701 (Table 1).

Zip Codes	Cases Reported
89701	23
89703	15
89706	8

Table 1. Carson City Cases by Zip Code

The daily cases reported, based on a seven-day average, over this two-week period was 6. This indicates that, on average, there has been 6 new cases each day throughout Carson City. Carson City is seeing an increase in the average number of cases reported each week (Graph 4). Sixty-three percent of cases were female and 37% were male. The average age of Carson City cases was 47 years old.



Graph 4: 7-Day Average per Week

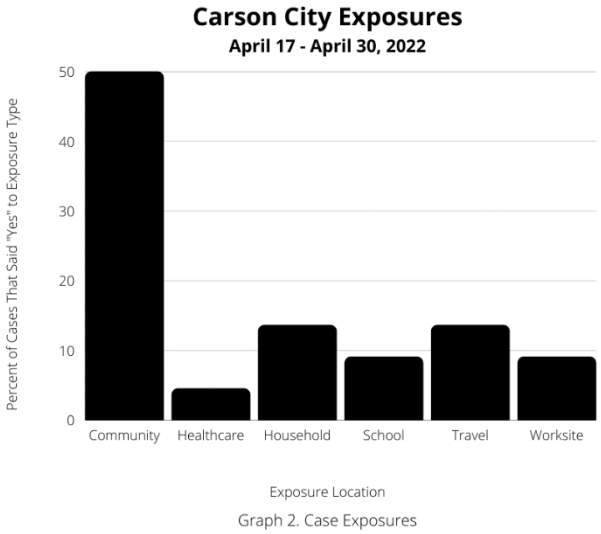
Carson City Schools

There were three student case investigations completed from April 17 – April 30, 2022. Two of those students attended school while infectious. There were no school faculty members that tested positive for COVID-19.

Carson City Exposure

Of those with known exposures, 50% had community exposures,14% had travel-related exposures, and 14% had household-related exposures. The graph shows more information on Carson City exposures (Graph 5). Just as above, exposure questions are independent, meaning an individual can answer “yes” to more than one exposure type.

CCHHS’s COVID-19 Epidemiologist is working closely with the state and the facilities to track the transmission and ensure mitigation efforts are in place. Transmission trends are challenging to track or predict.



Graph 2. Case Exposures

Carson City Vaccinations

According to the Nevada State COVID-19 Dashboard, approximately 62% of Carson City residents are fully vaccinated as of April 27, 2022. Carson City Health and Human Services continues to work with community stakeholders on vaccination outreach to increase vaccination rates among the community.

Carson City Breakthrough Cases

Carson City represents 31% of the total known breakthrough cases from the Quad-County region reported since February 1, 2021. This includes breakthrough cases ages 5-11 since December 7, 2021. The overall vaccinated case rate for ages 5 years and older for Carson City is 75 per 1k population compared to the overall unvaccinated case rate for ages 5 years and older of 319 per 1k. COVID-19 vaccines continue to be highly effective at protecting people against severe illness and death. Getting vaccinated is still the best way to slow the spread of COVID-19.