

COVID-19 Breakthrough Cases in Clark County

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Southern Nevada Health District is reporting a total of 73 COVID-19 breakthrough infection cases among completely vaccinated residents in Clark county, Nevada, as of April 22,2021. Breakthrough cases are U.S. residents with a SARS-CoV-2 RNA or antigen detected on respiratory specimen collected ≥ 14 days after completing the primary series of an FDA-authorized COVID-19 vaccine (i.e., complete vaccination).

Given the large number of people being vaccinated in the United States and the high level of ongoing SARS-CoV-2 circulation, thousands of symptomatic vaccine breakthrough cases are expected, even if the vaccines remain as effective as demonstrated during the clinical trials.

This table provides information regarding vaccine breakthrough cases. These data are self-reported through case investigation. Each case must have been successfully contacted, interviewed, and disclosed having received a COVID-19 vaccine, plus the number and date of doses, to be eligible for inclusion. Complete vaccination is two doses of the Pfizer or Moderna vaccine *or* one dose of the Johnson and Johnson (Janssen) vaccine. Data is considered preliminary and subject to change.

Population Characteristics of COVID-19 Breakthrough Cases (n=73)

Characteristics	Frequency	Percent
Age group		
18-24	2	3%
25-49	19	26%
50-64	17	23%
65 +	35	48%
Gender		
Male	38	52%
Female	35	48%
Race/Ethnicity		
Hispanic	13	18%
White	37	51%
Black	7	10%
Asian	10	14%
AEA	0	0%
Other	1	1%
Unknown	5	7%
Travel History		
Yes	8	11%
No	60	82%
Unknown	5	7%
Variants of Concern (VOC)		
B.1.1.7	1	1%
P.1	0	0%
B.1.429	0	0%
B.1.427	0	0%
B.1.351	0	0%

*AEA=American Indian/Eskimos/Alaskan Natives

* White, Black, Asian, and AEA are non-Hispanic

* there are a limited number of specimens for sequencing of VOCs compared to the total number of all COVID-19 cases; a frequency of 0 does not necessarily mean cases were not VOC