

COVID-19 Breakthrough Infections

Clark County, Nevada

Date: August 11, 2021

Breakthrough cases are U.S. residents with a SARS-CoV2 RNA or antigen detected on respiratory specimen collected greater than or equal to 14 days after completing the primary series of an FDA authorized COVID-19 vaccine (i.e., complete vaccination). Complete vaccination is two doses of the Pfizer or Moderna vaccine or one dose of the Johnson and Johnson (Janssen) vaccine.

Exclusion Criteria: The persons who were recently positive for COVID-19, defined as a positive <45 days prior to the current positive test under investigations were excluded.

Population Characteristics of COVID-19 Breakthrough Cases

	<i>Overall</i>	
	<i>N</i>	<i>%</i>
All	4377	100
Age (in years)		
5-17	24	1
18-24	244	6
25-49	1885	43
50-64	1152	26
65+	1072	24
Gender		
Male	2046	47
Female	2308	53
Unknown	23	1
Race/Ethnicity		
Hispanic	729	17
White	1744	40
Black	261	6
API	481	11
AEA	2	0
Other	203	5
Unknown	957	22
Travel History		
Yes	398	9
No	2051	47
Unknown	1928	44
Variant of concern (VOC)		
Gamma	18	0
Epsilon	4	0
Delta	467	11
Alpha	43	1
Unknown	3845	88
Hospitalization		
Yes	225	5
No	2276	52
Unknown	1876	43
Death		
Yes	49	1
No	1134	26
Unknown	3194	73
Vaccine Type		
Pfizer	2728	62
Moderna	907	21
Janssen	742	17
Underlying Conditions		
Yes	1200	27
No	3177	73

Notes:

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

* AEA=American Indian/Eskimos/Alaskan Natives API=Asian Pacific Islander

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

* Data is considered preliminary and subject to change.