

COVID-19 Breakthrough Infections

Clark County, Nevada

Date: August 26, 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	7084	100
Age (in years)		
5-17	70	1
18-24	436	6
25-49	3116	44
50-64	1850	26
65+	1612	23
Gender		
Male	3285	46
Female	3762	53
Unknown	37	1
Race/Ethnicity		
Hispanic	1202	17
White	2599	37
Black	500	7
API	729	10
AEA	6	0
Other	336	5
Unknown	1712	24
Travel History		
Yes	562	8
No	2814	40
Unknown	3708	52
Variant of concern (VOC)		
Gamma	18	0
Epsilon	4	0
Delta	670	9
Alpha	47	1
Unknown	6345	90
Hospitalization		
Yes	349	5
No	3299	47
Unknown	3436	49
Death		
Yes	105	1
No	1508	21
Unknown	5471	77
Vaccine Type		
Pfizer	4514	64
Moderna	1466	21
Johnson	1	0
Janssen	1103	16
Underlying Conditions		
Yes	1632	23
No	5452	77

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.