Variants and mutations

P1 (Brazil)

B1617 (India)

B1427-9 (California)

Variants evolve independently but yet contain similar mutations. Here are some key mutations in several

notable variants:			
Variants and places where they were initially identified	Total number of mutations	Key mutations of the spike protein	
P117 (United Kingdom)	10	NEO1V	

Variants and places where they were initially identified	Total number of mutations	Key mutations the spike prote
B117 (United Kingdom)	18	N501Y
B1351 (South Africa)	8	N501Y
		E484K
		K417N

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N501Y

E484K

L452R

F484K 1452R STRAITS TIMES GRAPHICS