

Vaccines versus variants

A vaccine's efficacy is measured by its ability to prevent symptomatic infection – that is, patients displaying symptoms of Covid-19 after being infected.

Here's how the different vaccines work against the variants.

Vaccine	Original type	B117 (UK)	B1351 (South African)	P1 (Brazilian)
Pfizer-BioNTech	95%	90-95%	62%	Pseudovirus (non-infectious fragments of viral DNA) neutralised by vaccine
Moderna	94%	90-95%	62%	N.I.*
AstraZeneca	70-79%	70-80%	10%	N.I.*
Johnson & Johnson	66-72%	70%	47-55%	N.I.*
Novavax	96%	85%	55%	N.I.*
Sputnik V	92%	N.I.*	60%	N.I.*
Sinovac	50-91%	Press release states "yes"	Press release states "yes"	Press release states "yes"

NOTE: *No information

Source: NATIONAL UNIVERSITY OF SINGAPORE'S YONG LOO LIN SCHOOL OF MEDICINE
STRAITS TIMES GRAPHICS