

Supplementary Table I. Direct evidence results with corresponding *P* score for each vaccine of interest in the current investigation.

Vaccines	Vaccine efficacy (95% CI)	<i>P</i> score
Jcovden	52.42 (47.28, 57.57)	0.09
Convidencia	57.50 (39.70, 75.30)	0.18
CVnCoV	63.70 (52.20, 75.20)	0.25
ZyCoV-D	66.60 (47.60, 85.60)	0.33
Soberna	69.70 (56.50, 82.90)	0.39
Covaxin	70.81 (65.33, 76.29)	0.44
S-Trimer	71.61 (56.23, 86.98)	0.44
Covishield	72.34 (67.12, 77.56)	0.42
Zifivax	75.94 (70.86, 81.02)	0.57
Covifenz	77.27 (68.48, 86.06)	0.59
Sinovac	83.50 (65.40, 101.60)	0.71
Novavax	88.99 (83.55, 94.42)	0.81
Sputnik	91.60 (85.60, 97.60)	0.88
Comirnaty	92.07 (90.03, 94.12)	0.89
Spikevax	93.29 (91.31, 95.27)	0.95

The direct estimates, using placebo as the reference, demonstrated significant vaccine efficacies (VE) for all vaccines evaluated, ranging from Jcovden (52.42%) to Spikevax (93.29%), with all confidence intervals and their respective *P* score