



Supporting Information

Supplementary results

**This appendix was part of the submitted manuscript and has been peer reviewed.
It is posted as supplied by the authors.**

Appendix to: Smoll NR, Al Imam MH, Shulz C, et al. The effectiveness of vaccination for preventing hospitalisation with COVID-19 in regional Queensland: a data linkage study. *Med J Aust* 2023; doi: 10.5694/mja2.52019.

Table. Characteristics of the 11,112 Central Queensland people (aged 12 years or more) with polymerase chain reaction (PCR)-confirmed SARS-CoV-2 infections*

Characteristic	All people	Unvaccinated	Vaccinated
Number of people	11 112	3010 [†]	8102
Age (years)			
18–40	7389 (66%)	2246 (75%)	5143 (63%)
41–60	2793 (25%)	604 (20%)	2189 (27%)
61–80	840 (7.6%)	134 (4.5%)	706 (8.7%)
81 or more	90 (0.8%)	26 (0.9%)	64 (0.8%)
Sex			
Women	5908 (53%)	1445 (48%)	4463 (55%)
Men	5204 (47%)	5204 (47%)	5204 (47%)
Indigenous status			
Aboriginal or Torres Strait Islander	859 (7.7%)	371 (12%)	488 (6.0%)
Non-Indigenous	10 171 (92%)	2559 (85%)	7612 (94%)
Unknown	82 (0.7%)	80 (2.7%)	2 (<0.1%)
Time since most recent vaccine dose (months), mean (SD)	—	NA	3.74 (2.00)
COVID-19-related hospital admissions	53 (0.5%)	30 (1.0%)	23 (0.3%)
SARS-CoV-2 variant [‡]			
B.1.1.529	22 (4.5%)	7 (4.3%)	15 (4.5%)
BA.1	404 (82%)	134 (83%)	270 (82%)
BA.1.1	21 (4.3%)	5 (3.1%)	16 (4.8%)
BA.2	46 (9.3%)	16 (9.9%)	30 (9.1%)
Not sequenced	10 619	2848	7,771
Primary course vaccine			
BNT162b2 (Pfizer–BioNTech)	6483 (58%)	NA	6483 (80%)
ChAdOx1 (AstraZeneca)	976 (8.8%)	NA	976 (12%)
mRNA-1273 (Moderna)	635 (5.7%)	NA	635 (7.8%)
Other	8 (<0.1%)	NA	8 (<0.1%)

COVID-19 = coronavirus disease 2019; NA = not applicable; SARS-CoV-2 = severe acute respiratory syndrome coronavirus 2; SD = standard deviation.

* Rounding errors may occur. In multivariate analyses including people aged 12 years or more, vaccine effectiveness was 68.4% (95% CI, 43.5–82.3%) for people who had received only a primary vaccination course and 80.8% (95% CI, 36.5–94.2%) for people who had also received a booster shot.

[†] Includes 81 people who had received only a single vaccine dose, one of whom was hospitalised with COVID-19.

[‡] All listed variants belong to the Omicron lineage. BA is shorthand for B.1.1.529.