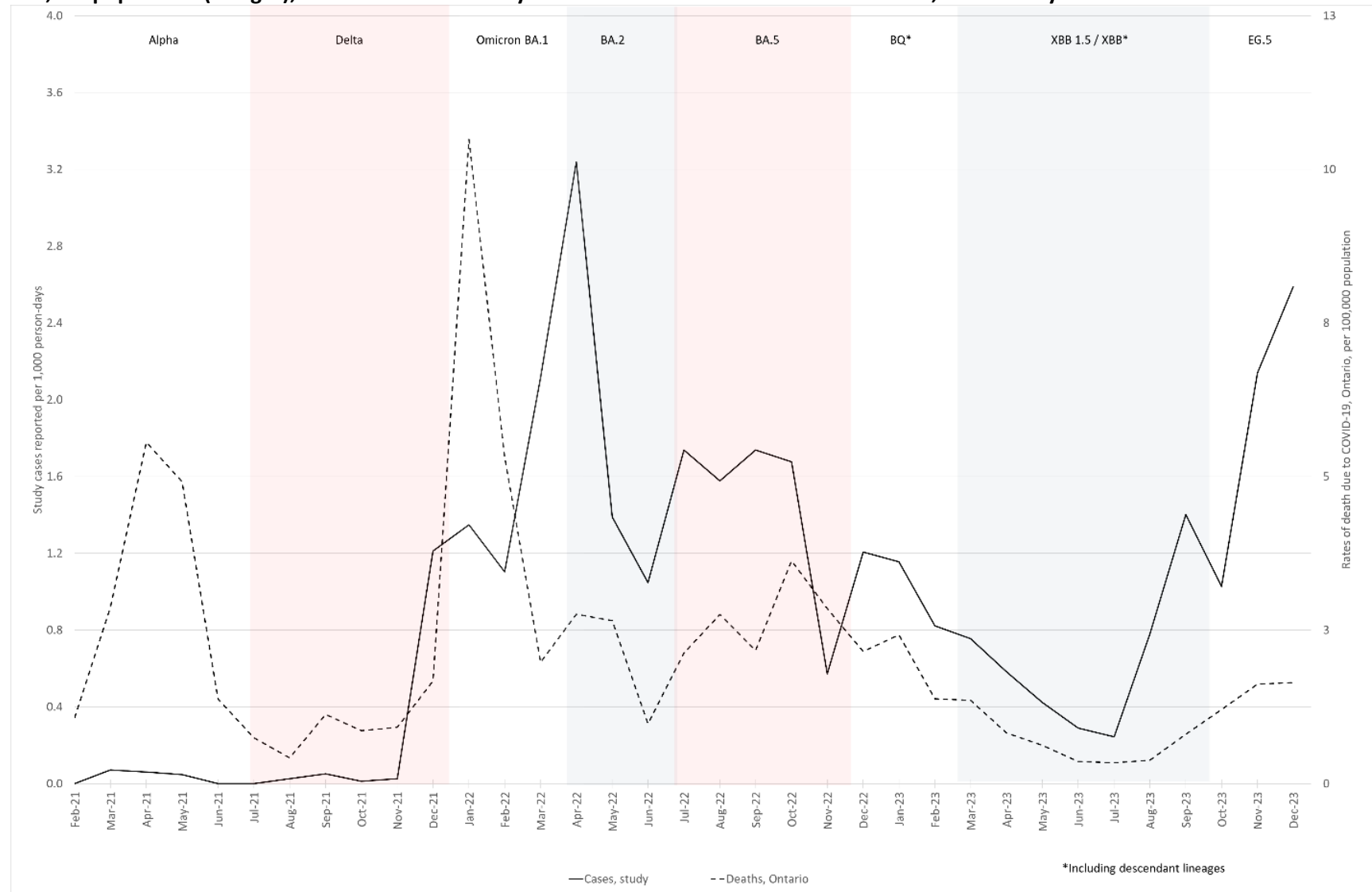


Figure S1 Rate of infection with SARS-CoV-2 in study participants per 1,000 study days and COVID-19 associated deaths in Ontario per 100,000 population (all ages); COVID-19 Cohort Study of Teachers and Other Education Workers, 18 February 2021 to 22 December 2023



Mortality rates were lagged by 14 days to account for time between infection and death

Table S1 Anti-RBD IgG titres in BAU/mL collected within 120 days of vaccination, by COVID-19 vaccine dose and history of SARS-CoV-2 infection; COVID-19 Cohort Study of Teachers and Other Education Workers, 18 February 2021 to 22 December 2023

Number of vaccine doses	No previous SARS-CoV-2 infection		SARS-CoV-2 prior to blood collection ¹	
	Number of samples	RBD in BAU/mL median (IQR)	Number of samples	RBD in BAU/mL, median (IQR)
None	2279 ²	Not detected ³	136	44 (1-147)
1	1207	68 (37-133)	46	1856 (567-3838)
2	4116	1149 (543-2311)	358	3426 (1712-6719)
3	2848	2399 (1059-4838)	1704	6784 (3264-13356)
4	648	3129 (1576-6167)	1323	6750 (3258-13749)
5 or 6	486	3141 (1248-6629)	840	7995 (3905-14686)

BAU: binding antibody units; IgG: immunoglobulin G; IQR: interquartile range; mL: millilitres; RBD: receptor binding domain of the spike protein; SARS-CoV-2: severe acute respiratory syndrome-coronavirus 2

1) By self-report of positive respiratory swab result or by positive blood sample (positive for anti-nucleocapsid and anti-RBD and/or anti-spike)

2) Blood collected prior to vaccination but within 120 days of enrolment in study

3) Including no detection within IQR

Table S2 Anti-RBD IgG titres in BAU/mL, by time between most recent of vaccine dose or SARS-CoV-2 infection and history of previous SARS-CoV-2 infection; COVID-19 Cohort Study of Teachers and Other Education Workers, 18 February 2021 to 22 December 2023

Days between sample and event	No previous SARS-CoV-2 infection		SARS-CoV-2 prior to blood collection ¹	
	Number of samples	RBD in BAU/mL Median (IQR)	Number of samples	RBD in BAU/mL, Median (IQR)
No event	2279	Not detected ²	--	--
10-59	3816	2399 (865-4891)	1790	9584 (4503-17423)
60-119	2143	1287 (254-2876)	772	7988 (3938-14885)
120-179	1836	738 (403-1276)	422	5153 (2326-11089)
180-239	1050	906 (436-2003)	618	4293 (2347-8293)
240-299	102	1160 (325-2367)	121	3571 (1841-7374)
300-359	79	1459 (393-3245)	139	3602 (1854-6950)
360-419	177	1035 (449-3027)	334	2601 (1238-4994)
≥420	102	1585 (583-3238)	211	2786 (1263-5225)

BAU: binding antibody units; IgG: immunoglobulin G; IQR: interquartile range; mL: millilitres; RBD: receptor binding domain; SARS-CoV-2: severe acute respiratory syndrome-coronavirus 2

1) By self-report of positive respiratory swab result or by positive blood sample (positive for anti-nucleocapsid and anti-RBD and/or anti-spike)

2) No detection within IQR