

**Supplementary Table S2: GMR (fold change) and CI**

*Comparison of fold-change in antibody titers in sera from healthcare workers (n=54) when either the Omicron BA.4/BA.5 adapted bivalent vaccine or quadrivalent seasonal 2022-2023 influenza vaccine were administered alone or both vaccines were co-administered. For these analyses, the GMR was calculated for each participant; the means of the individual values are presented here.*

	COVID-19 Vaccine		Both Vaccines		Influenza Vaccine		p-value
	GMR	95% CI	GMR	95% CI	GMR	95% CI	
<b>SARS-CoV-2 variants:</b>							
<b>WT</b>	16.61	(0.52, 32.70)	9.11	(1.36, 16.86)	NA	NA	0.67
<b>BA.1</b>	19.00	(7.38, 30.62)	15.33	(0.58, 30.09)	NA	NA	0.71
<b>BA.5</b>	13.22	(5.33, 21.11)	11.00	(2.93, 19.07)	NA	NA	0.48
<b>BQ.1.1</b>	8.72	(1.35, 16.10)	10.83	(0.00, 25.49)	NA	NA	0.91
<b>Influenza strains:</b>							
<b>A/H1N1</b>	NA	NA	1.58	(1.18, 1.99)	2.42	(1.05, 3.78)	0.56
<b>A/H3N2</b>	NA	NA	1.89	(1.26, 2.52)	5.71	(0.00, 14.71)	0.30
<b>B/Victoria</b>	NA	NA	2.81	(1.53, 4.09)	1.88	(0.85, 2.91)	0.09
<b>B/Yamagata</b>	NA	NA	1.58	(1.06, 2.10)	2.73	(0.00, 5.49)	0.24