

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