

Supplementary Table S3. Magnitude of IgG anti-SARS-CoV-2 responses on day 90 after the first booster vaccination in relation to comorbidities and history of SARS-CoV-2 infection.

Parameter	No, IgG levels (AU/mL) (Median, IQR)	p-value (Univariate analysis)	p-value (Multivariate analysis)	Coefficient (95% CI)
Sex (male/female)	Male: 113, 7,873, 18,099 Female: 138, 8,656, 14,570	0.726	0.926	-207.4 (-4,602.0 – 4,187.3)
Age (years)	Rho = 0.09	0.141	0.218	86.7 (-51.7 – 225.1)
Comorbidities (no VS ≥ 1)	No: 49, 8,007, 11,802 ≥ 1 : 202, 8,451, 18,476	0.998		
Comorbidities (1 VS ≥ 2)	one: 148, 6,839, 13,674 ≥ 2 : 103, 10,573, 21,481	0.150		
Hypertension	No: 135, 6,500, 16,711 Yes: 116, 10,428, 17,808	0.303		
Diabetes Mellitus	No: 200, 7,654, 14,272 Yes: 51, 11,600, 20,640	0.105	0.959	-145.5 (-5,753.9 – 5,462.9)
Dyslipidemia	No: 173, 8,320, 16,086 Yes: 78, 8,597, 17,952	0.814		
Chronic heart disease	No: 200, 8,251, 14,356 Yes: 51, 10,572, 19,232	0.314		
Stroke/TIA	No: 228, 8,371, 17,234 Yes: 23, 8,742, 9,372	0.392		
Venous/arterial thromboses	No: 241, 8,182, 14,741 Yes: 10, 17,425, 20,071	0.266		
Chronic respiratory disease	No: 240, 8,370, 15,116 Yes: 11, 10,369, 30,700	0.936		
Autoimmune/ autoinflammatory disorders	No: 236, 8,436, 15,073 Yes: 15, 7,584, 19,750	0.687		
Thyroid disease	No: 224, 8,495, 15,073 Yes: 27, 7,056, 26,589	0.518		

Chronic liver disease	No: 247, 8,451, 16,589 Yes: 4, 2,639, 6,918	0.084	0.534	-5,471.2 (-22,770.8 – 1,390.1)
Chronic kidney disease	No: 240, 8,370, 14,650 Yes: 11, 10,935, 30,194	0.880		
Cancer	No: 242, 8,251, 14,688 Yes: 9, 23,879, 28,033	0.387		
Insomnia/psychiatric diseases	No: 133, 6,910, 11,354 Yes: 118, 10,530, 21,575	0.167	0.153	-3,705.1 (-8,800.3 – 1,390.1)
Others	No: 146, 7,939, 14,921 Yes: 105, 8,857, 18,117	0.844		
History of SARS-CoV-2 infection	No: 175, 5,942, 8,987 Yes (once): 69, 20,307, 28,326 Yes (twice): 7, 65,688, 40,550	<0.001	<0.001	21309.6 (17151.2 – 25468.0)
Vaccination type (adenovirus vector-based VS mRNA vaccines)	Adenovirus vector-based: 42, 4,453, 7,349 mRNA: 209, 9,903, 18,693	0.002	0.011	-8,322.7 (-14,760.5 – -1,884.9)

Abbreviations: IQR, interquartile range; TIA, transient ischemic attack; 95%CI, 95% confidence interval