

**Table S1. Characteristics of the study participants with different cutoff values of SARS-CoV-2 anti-spike antibody titers set at 0.6 OD450 value**

Characteristic	Low antibody titer (n = 99)	High antibody titer (n = 128)	p value	SMD (before IPW)	SMD (after IPW)	Missing
Age (years), median [IQR]	43 [37-50]	51 [44-56]	-	0.702	0.009	
Male sex	35	66	0.015	0.319	0.107	
Obesity (BMI > 25 kg/m <sup>2</sup> )	31	49	0.276	0.107	0.123	
Smoking	35	38	0.365	0.078	0.051	
Hypertension	5	30	< 0.001	0.566	0.039	
Diabetes	5	12	0.220	0.160	0.065	
Dyslipidemia	9	21	0.107	0.210	0.002	
Asthma	13	20	0.597	0.057	0.047	
COPD	1	0	0.254			
Malignancy	1	3	0.449			
Use of antivirals	4	36	< 0.001	0.303	0.038	13
Use of steroids	5	21	0.030	0.183	0.104	23
Moderate severity	4	23	0.002	0.452	0.070	7
Fatigue	64	86	0.628			1
SoB	33	48	0.488			
Cough	47	63	0.794			
Dysosmia	63	55	0.002			
Dysgeusia	46	51	0.317			
Hair loss	19	31	0.408			2
Depressed mood	22	44	0.042			1
LoC	28	42	0.464			
MD	15	31	0.087			

Abbreviations: BMI, body mass index; COPD, chronic obstructive pulmonary disease; IPW, inverse probability weighting; IQR, interquartile range; LoC, loss of concentration; MD, memory disturbance; SMD, standardized mean difference; SoB, shortness of breath.

**Table S2. Association between SARS-CoV-2 anti-spike antibody titers and the development of post-COVID conditions with different cutoff values of SARS-CoV-2 anti-spike antibody titers set at 0.6 OD450 value**

Characteristic	Odds Ratio	95% Confidence Interval	p value
Fatigue	1.52	0.73–3.17	0.264
Cough	1.35	0.71–2.58	0.362
Dysosmia	0.72	0.36–1.44	0.354
Dysgeusia	1.19	0.62–2.25	0.602
SoB	1.33	0.68–2.60	0.404
Hair loss	1.53	0.73–3.18	0.259
Depressed mood	2.70	1.35–5.38	0.005
LoC	1.47	0.76–2.87	0.253
MD	2.42	1.14–5.16	0.021

Abbreviations: LoC, loss of concentration; MD, memory disturbance; SoB, shortness of breath.

The odds ratio indicates the incidence rate ratio of each symptom in the group with higher SARS-CoV-2 anti-spike antibody titers compared to the group with lower antibody titers.

**Table S3. Characteristics of the study participants with different cutoff values of SARS-CoV-2 anti-spike antibody titers set at 0.9 OD450 value**

Characteristic	Low antibody titer (n = 127)	High antibody titer (n = 100)	p value	SMD (before IPW)	SMD (after IPW)	Missing
Age (years), median [IQR]	44 [37–51]	52 [45–57]	-	0.743	0.136	
Male sex	50	51	0.080	0.235	0.119	
Obesity (BMI > 25 kg/m <sup>2</sup> )	39	41	0.107	0.170	0.007	
Smoking	40	33	0.810	0.055	0.060	
Hypertension	10	25	< 0.001	0.524	0.073	
Diabetes	7	10	0.202	0.159	0.117	
Dyslipidemia	12	18	0.059	0.238	0.016	
Asthma	17	16	0.579	0.059	0.012	
COPD	1	0	0.374			
Malignancy	1	3	0.208			
Use of antivirals	9	31	< 0.001	0.316	0.034	13
Use of steroids	8	18	0.023	0.063	0.037	23
Moderate severity	5	22	< 0.001	0.552	0.072	7
Fatigue	81	69	0.350			1
SoB	40	41	0.123			1
Cough	58	52	0.343			
Dysosmia	76	42	0.008			
Dysgeusia	56	41	0.640			
Hair loss	23	27	0.123			2
Depressed mood	32	34	0.158			1
LoC	34	36	0.135			
MD	22	24	0.196			3

Abbreviations: BMI, body mass index; COPD, chronic obstructive pulmonary disease; IPW, inverse probability weighting; IQR, interquartile range; LoC, loss of concentration; MD, memory disturbance; SMD, standardized mean difference; SoB, shortness of breath.

**Table S4. Association between SARS-CoV-2 anti-spike antibody titers and the development of post-COVID conditions with different cutoff values of SARS-CoV-2 anti-spike antibody titers set at 0.9 OD450 value. The odds ratio indicates the incidence rate ratio of each symptom in the group with higher SARS-CoV-2 anti-spike antibody titers compared to the group with lower antibody titers**

Characteristic	Odds Ratio	95% Confidence Interval	p value
Fatigue	1.51	0.71–3.18	0.283
Cough	1.47	0.76–2.83	0.253
Dysosmia	0.77	0.39–1.51	0.443
Dysgeusia	1.31	0.68–2.53	0.417
SoB	1.55	0.78–3.10	0.213
Hair loss	2.04	0.96–4.32	0.063
Depressed mood	1.85	0.93–3.68	0.081
LoC	1.52	0.77–3.00	0.227
MD	1.93	0.90–4.15	0.090

Abbreviations: LoC, loss of concentration; MD, memory disturbance; SoB, shortness of breath.