

Supplementary table 1 Symptoms according to sex

Symptoms	Male (n = 1,633)	Female (n = 2,060)	<i>P</i> value
Long COVID	454 (27.8)	663 (32.2)	0.004
Digestive system symptoms	66 (4.0)	114 (5.5)	0.044
Chest tightness	10 (0.6)	33 (1.6)	0.008
Dyspnea during exercise	63 (3.9)	120 (5.8)	0.008
Palpitation	7 (0.4)	33 (1.6)	0.001
Dyspepsia	6 (0.4)	20 (1.0)	0.048
Vomiting	1 (0.1)	11 (0.5)	0.027
Diarrhea	9 (0.6)	30 (1.5)	0.012
Constipation	35 (2.1)	69 (3.3)	0.036
Dizziness	14 (0.9)	55 (2.7)	< 0.001
Expression disorders	5 (0.3)	20 (1.0)	0.025
Anxiety	9 (0.6)	31 (1.5)	0.009

Only the results of *P* value < 0.05 were displayed.

**Supplementary table 2 The new comorbidities among included participants after
SRAS-CoV-2 infection**

New comorbidities	Number of participants
Hypertension	40
Hypertension, Type 2 diabetes	3
Anxiety	2
Asthma	1
Coronary heart disease	1
Depression	1
Hypertension, Coronary heart disease	1
Hypertension, Coronary heart disease, Type 2 diabetes	1
Pulmonary fibrosis	1
Type 2 diabetes	1

Supplementary table 3 The univariate logistic regression of long COVID

	OR (95% CI)	<i>P</i> value
Age		
<65y	1 (ref)	
≥65y	1.57 (1.37 - 1.81)	<0.001*
Sex		
Male	1 (ref)	
Female	1.23 (1.07 - 1.42)	0.004*
Number of COVID-19 vaccine doses	0.83 (0.77 - 0.89)	<0.001*
Severity	1.10 (0.98 - 1.23)	0.096
Comorbidity		
No	1 (ref)	
Yes	1.22 (1.06 - 1.41)	0.005*
SARS-Cov-2 reinfection		
No	1 (ref)	
Yes	3.44 (2.57 - 4.60)	<0.001*
Traditional Chinese medicine		
No	1 (ref)	
Yes	1.11 (0.94 - 1.30)	0.235

*, $P < 0.05$

Supplementary table 4 The univariate logistic regression of symptoms impacting daily life

	OR (95% CI)	<i>P</i> value
Age		
<65y	1 (ref)	
≥65y	3.45 (2.75 - 4.32)	<0.001*
Sex		
Male	1 (ref)	
Female	1.19 (0.97 - 1.48)	0.103
Number of COVID-19 vaccine doses	0.80 (0.72 - 0.88)	<0.001*
Severity	1.10 (0.93 - 1.30)	0.269
Comorbidity		
No	1 (ref)	
Yes	0.83 (0.67 - 1.02)	0.081
SARS-Cov-2 reinfection		
No	1 (ref)	
Yes	1.30 (0.85 - 2.00)	0.225
Traditional Chinese medicine		
No	1 (ref)	
Yes	0.43 (0.31 - 0.59)	<0.001*

*, $P < 0.05$

Supplementary table 5 The logistic regression results of systemic symptoms

	Univariable OR (95% CI)	P value	Multivariable OR (95% CI)	P value
Age				
<65y	1 (ref)		1 (ref)	
≥65y	1.81 (1.54 - 2.12)	<0.001*	1.88 (1.59 - 2.22)	<0.001*
Sex				
Male	1 (ref)			
Female	1.17 (1.00 - 1.37)	0.057	NA	NA
Number of COVID-19 vaccine doses	0.84 (0.77 - 0.91)	<0.001*	0.88 (0.81 - 0.96)	0.003*
Severity	1.31 (1.16 - 1.49)	<0.001*	1.31 (1.15 - 1.49)	<0.001*
Comorbidity				
No	1 (ref)			
Yes	1.11 (0.95 - 1.30)	0.1950	NA	NA
SARS-CoV-2 reinfection				
No	1 (ref)		1 (ref)	
Yes	2.71 (2.01 - 3.64)	<0.001*	2.83 (2.08 - 3.86)	<0.001*
Traditional Chinese medicine				
No	1 (ref)			
Yes	0.84 (0.69 - 1.02)	0.084	NA	NA

*, $P < 0.05$

Supplementary table 6 The logistic regression results of cardiopulmonary symptoms

	Univariable OR (95% CI)	P value	Multivariable OR (95% CI)	P value
Age				
<65y	1 (ref)		1 (ref)	
≥65y	1.59 (1.31 - 1.92)	<0.001*	1.35 (1.08 - 1.70)	0.009*
Sex				
Male	1 (ref)			
Female	1.12 (0.93 - 1.36)	0.243	NA	NA
Number of COVID-19 vaccine doses	0.81 (0.74 - 0.89)	<0.001*	0.86 (0.78 - 0.95)	0.002*
Severity	1.11 (0.95 - 1.29)	0.184	NA	NA
Comorbidity				
No	1 (ref)			
Yes	1.80 (1.49 - 2.18)	<0.001*	1.66 (1.32 - 2.07)	<0.001*
SARS-CoV-2 reinfection				
No	1 (ref)		1 (ref)	
Yes	3.18 (2.32 - 4.38)	<0.001*	2.99 (2.13 - 4.19)	<0.001*
Traditional Chinese medicine				
No	1 (ref)		1 (ref)	
Yes	1.50 (1.22 - 1.85)	<0.001*	1.50 (1.20 - 1.88)	<0.001*

*, $P < 0.05$

Supplementary table 7 The logistic regression results of digestive system symptoms

	Univariable OR (95% CI)	P value	Multivariable OR (95% CI)	P value
Age				
<65y	1 (ref)			
≥65y	1.18 (0.88 - 1.60)	0.274	NA	NA
Sex				
Male	1 (ref)		1 (ref)	
Female	1.39 (1.02 - 1.90)	0.037*	1.39 (1.01 - 1.91)	0.042*
Number of COVID-19 vaccine doses	0.73 (0.64 - 0.83)	<0.001*	0.79 (0.69 - 0.91)	<0.001*
Severity	0.55 (0.43 - 0.71)	<0.001*	0.54 (0.42 - 0.69)	<0.001*
Comorbidity				
No	1 (ref)		1 (ref)	
Yes	1.48 (1.09 - 2.00)	0.011*	1.54 (1.13 - 2.10)	0.007*
SARS-CoV-2 reinfection				
No	1 (ref)		1 (ref)	
Yes	2.53 (1.56 - 4.08)	<0.001*	2.87 (1.74 - 4.74)	<0.001*
Traditional Chinese medicine				
No	1 (ref)			
Yes	1.01 (0.71 - 1.44)	0.943	NA	NA

*, $P < 0.05$

Supplementary table 8 The logistic regression results of neurological symptoms

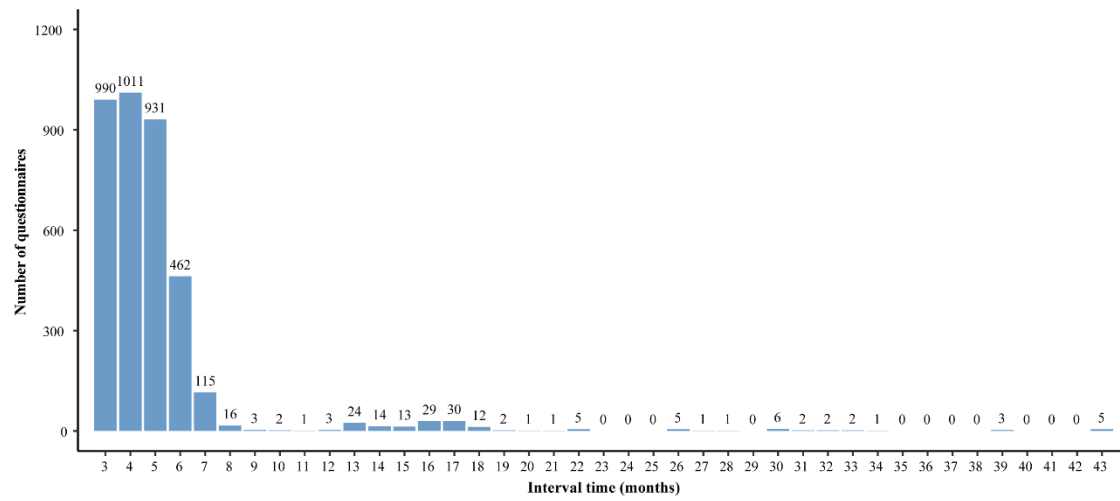
	Univariable OR (95% CI)	P value	Multivariable OR (95% CI)	P value
Age				
<65y	1 (ref)			
≥65y	0.96 (0.73- 1.25)	0.756	NA	NA
Sex				
Male	1 (ref)			
Female	1.30 (0.99 - 1.71)	0.056	NA	NA
Number of COVID-19 vaccine doses	0.86 (0.76 - 0.98)	0.022*	0.89 (0.77 - 1.02)	0.081
Severity	1.32 (1.07 - 1.62)	0.010*	1.21 (0.97 - 1.50)	0.094
Comorbidity				
No	1 (ref)		1 (ref)	
Yes	1.48 (1.13 - 1.93)	0.004*	1.59 (1.20 - 2.10)	0.001*
SARS-CoV-2 reinfection				
No	1 (ref)		1 (ref)	
Yes	4.21 (2.88 - 6.15)	<0.001*	3.40 (2.27 - 5.10)	<0.001*
Traditional Chinese medicine				
No	1 (ref)		1 (ref)	
Yes	1.99 (1.51 - 2.63)	<0.001*	1.81 (1.35 - 2.43)	<0.001*

*, $P < 0.05$

Supplementary table 9 The logistic regression results of psychiatric symptoms

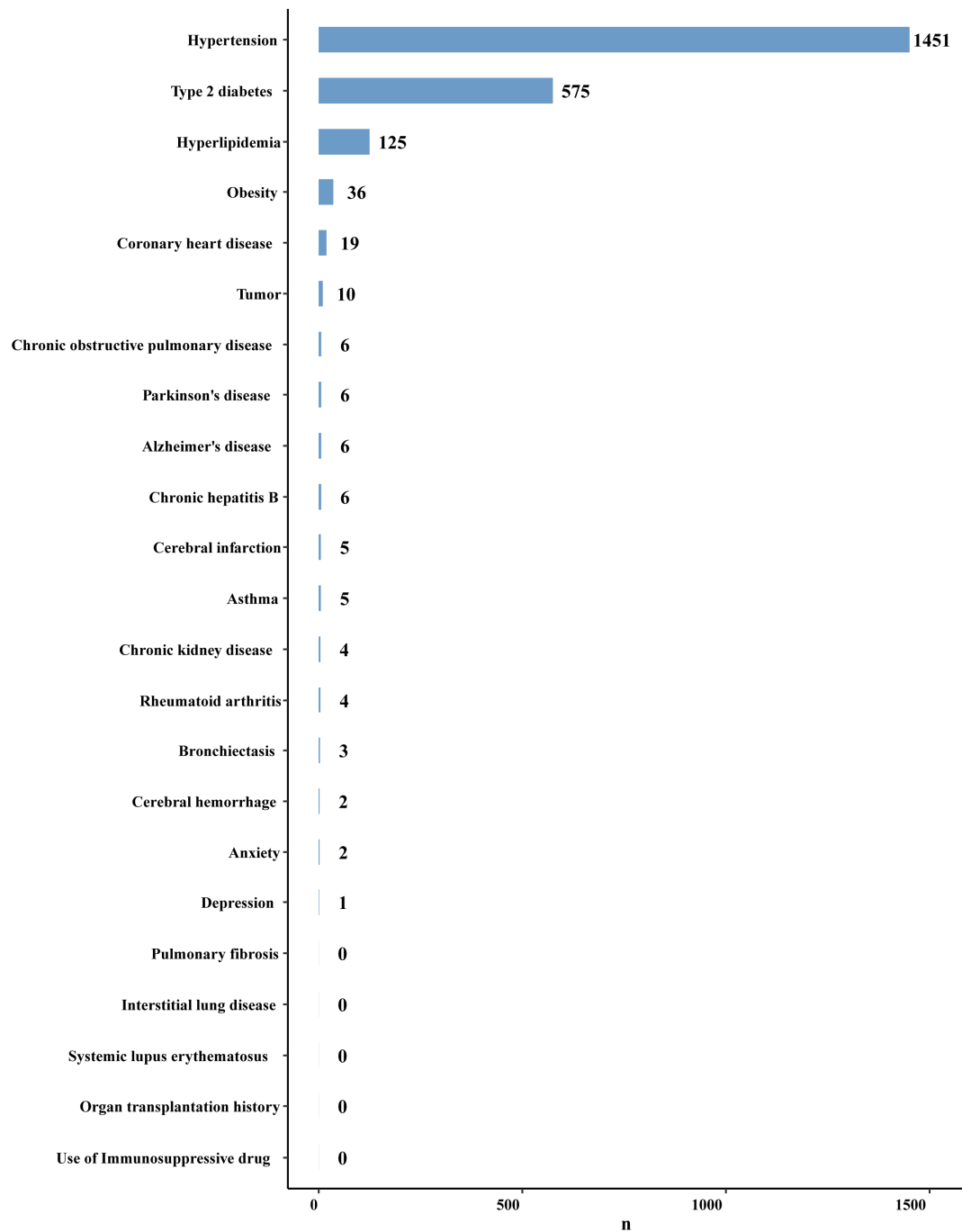
	Univariable OR (95% CI)	P value	Multivariable OR (95% CI)	P value
Age				
<65y	1 (ref)		1 (ref)	
≥65y	0.62 (0.40 - 0.95)	0.028*	0.68 (0.44 - 1.05)	0.085
Sex				
Male	1 (ref)			
Female	1.32 (0.88 - 1.99)	0.177	NA	NA
Number of COVID-19 vaccine doses	0.98 (0.80 - 1.21)	0.859	NA	NA
Severity	1.30 (0.95 - 1.77)	0.102	NA	NA
Comorbidity				
No	1 (ref)			
Yes	0.71 (0.47 - 1.07)	0.098	NA	NA
SARS-CoV-2 reinfection				
No	1 (ref)		1 (ref)	
Yes	5.92 (3.63 - 9.68)	<0.001*	5.07 (3.04 - 8.46)	<0.001*
Traditional Chinese medicine				
No	1 (ref)			
Yes	1.44 (0.93 - 2.23)	0.101	NA	NA

*, $P < 0.05$

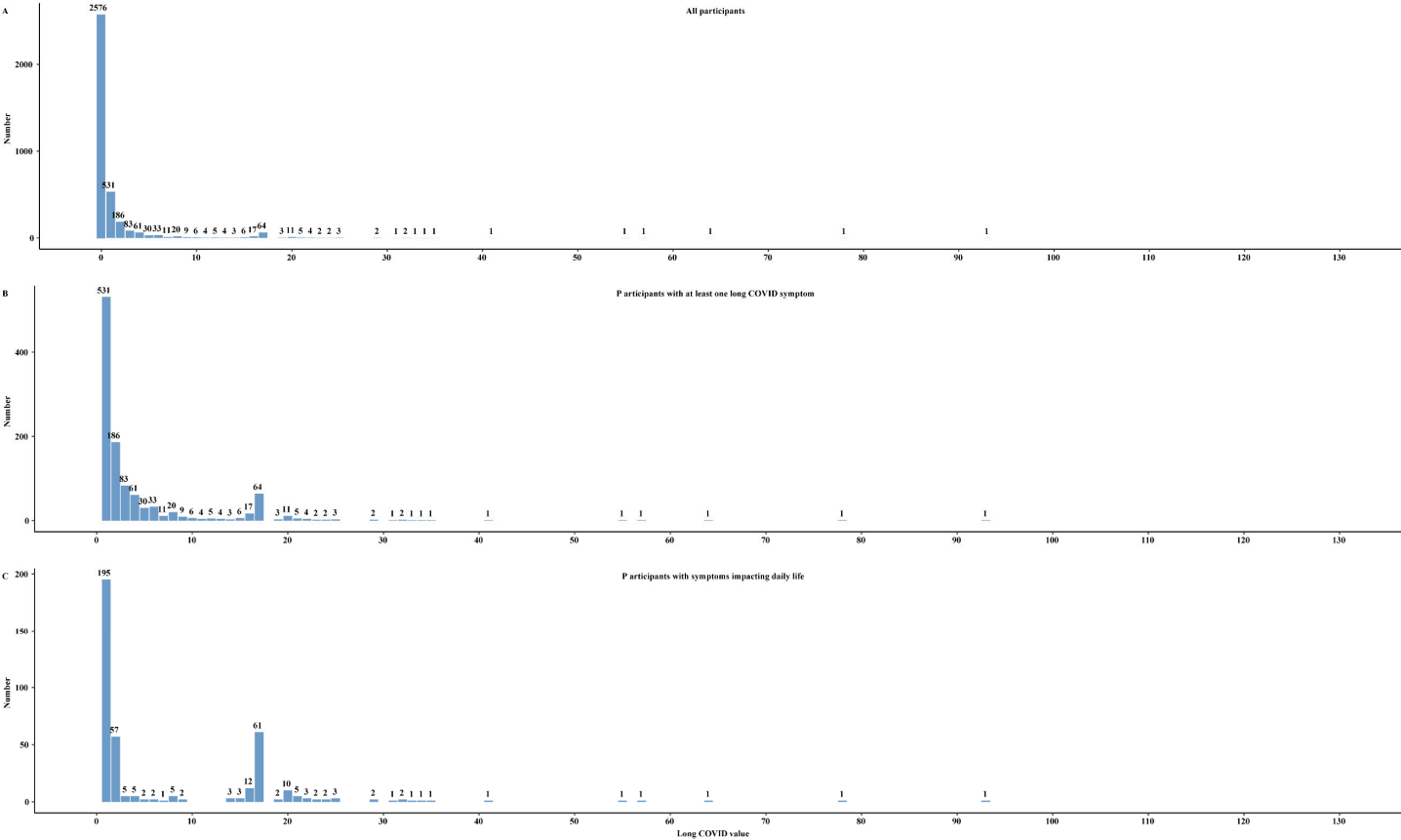


Supplementary figure 1 The number of questionnaires divided by months

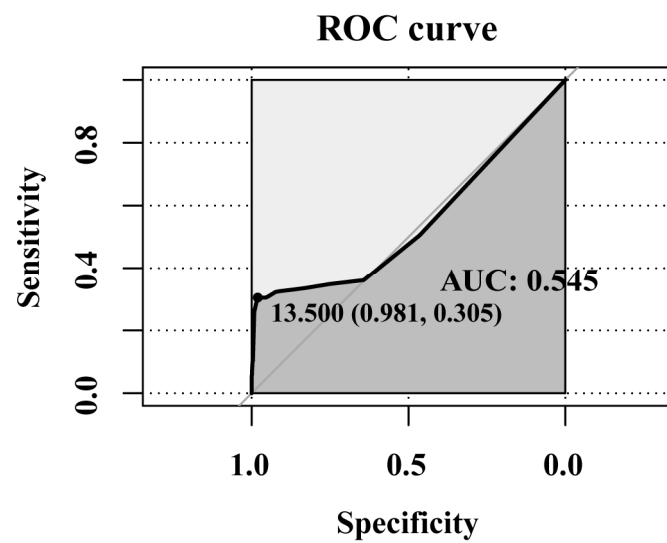
Interval time, the interval between the initial SARS-CoV-2 infection time and the follow-up time.



Supplementary figure 2 The comorbidities among included participants before SRAS-CoV-2 infection



Supplementary figure 3 The score distribution of all participants, participants with at least one long COVID symptom and participants with symptoms impacting daily life



Supplementary figure 4 The ROC curve of symptoms impacting daily life