

Table S1 Results of multiple logistic regression analyses on factors associated with mental health problems of Chinese residents

Characteristics	Sub-character	Psychological distress		Depressive symptoms		Anxiety symptoms	
		Odds Ratio (95% CI)	P	Odds Ratio (95% CI)	P	Odds Ratio (95% CI)	P
Subpopulation	Wuhan residents	1.97 (1.70, 2.29)	<0.001	1.79 (1.52, 2.10)	<0.001	1.61 (1.37, 1.90)	<0.001
	Migrants from Wuhan	2.04 (1.73, 2.41)	<0.001	1.93 (1.62, 2.31)	<0.001	1.56 (1.30, 1.87)	<0.001
	Other Hubei residents	1.26 (1.02, 1.55)	0.029	1.27 (1.02, 1.59)	0.036	1.13 (0.89, 1.42)	0.311
	Other residents	1		1		1	
Gender	Female	1.41 (1.26, 1.57)	<0.001	1.39 (1.23, 1.57)	<0.001	1.21 (1.07, 1.37)	0.002
	Male	1		1		1	
Age-group (years)	16-29	1.50 (1.16, 1.94)	0.002	2.15 (1.60, 2.89)	<0.001	1.80 (1.33, 2.43)	<0.001
	30-49	1.58 (1.26, 1.97)	<0.001	2.22 (1.71, 2.88)	<0.001	1.76 (1.36, 2.30)	<0.001
	50+	1		1		1	
Marital status	Others*	1.07 (0.91, 1.25)	0.44	1.09 (0.92, 1.29)	0.349	1.49 (1.26, 1.78)	<0.001
	Never-married	1.34 (1.05, 1.70)	0.018	1.19 (0.92, 1.54)	0.197	1.45 (1.12, 1.88)	0.005
	Married	1		1		1	
Employment status	Students	1.65 (1.32, 2.05)	<0.001	1.99 (1.58, 2.50)	<0.001	1.90 (1.50, 2.39)	<0.001
	Unemployed	0.84 (0.71, 1.01)	0.054	0.86 (0.71, 1.04)	0.120	0.90 (0.75, 1.08)	0.256
	Employed	1		1		1	
Education	Associate's degree and above	1.87 (1.59, 2.20)	<0.001	1.78 (1.49, 2.12)	<0.001	1.54 (1.29, 1.83)	<0.001
	Middle school and below	1		1		1	
Perceived severity of the epidemic in current residence place	Severe	1.32 (1.16, 1.51)	<0.001	1.29 (1.12, 1.48)	<0.001	1.30 (1.12, 1.50)	<0.001
	Not severe	1		1		1	
Having family members or close relatives infected with SARS-CoV-2**	Yes	1.19 (0.77, 1.84)	0.441	1.71 (1.11, 2.63)	0.015	1.29 (0.83, 2.00)	0.267
	No	1		1		1	
Having colleagues, friends or classmates infected with SARS-CoV-2**	Yes	1.96 (1.65, 2.33)	<0.001	1.63 (1.36, 1.94)	<0.001	1.69 (1.41, 2.03)	<0.001
	No	1		1		1	
Having infected neighbors of the same community/village	Yes	1.60 (1.36, 1.87)	<0.001	1.53 (1.29, 1.80)	<0.001	1.43 (1.21, 1.70)	<0.001
	No	1		1		1	

*, "Others" included re-married, co-habiting, separated, divorced, and widowed. **, SARS-CoV-2: Severe Acute Respiratory Syndrome Coronavirus 2.

Table S2 Results of multiple logistic regression analyses on factors associated with perceived need for mental health care and mental health service use of Chinese residents

Characteristic	Sub-character	Perceived need for mental health care		Use of mental health services	
		OR (95%CI)	P	OR (95%CI)	P
Subpopulation	Wuhan residents	0.87 (0.66, 1.15)	0.329	1.24 (0.69, 2.23)	0.463
	Migrants from Wuhan	0.87 (0.65, 1.18)	0.378	1.14 (0.62, 2.11)	0.670
	Other Hubei residents	0.88 (0.59, 1.30)	0.510	1.03 (0.44, 2.39)	0.950
	Other residents	1		1	
Gender	Female	1.35 (1.10, 1.67)	0.005	0.74 (0.49, 1.12)	0.150
	Male	1		1	
Age-group (years)	16-29	1.08 (0.68, 1.73)	0.745	0.34 (0.12, 0.94)	0.038
	30-49	1.03 (0.69, 1.55)	0.881	0.70 (0.30, 1.61)	0.401
	50+	1		1	
Marital status	Others*	0.88 (0.66, 1.17)	0.367	2.00 (1.08, 3.69)	0.027
	Never-married	2.08 (1.45, 2.99)	<0.001	2.46 (1.20, 5.02)	0.014
	Married	1		1	
Employment status	Students	0.90 (0.62, 1.30)	0.580	0.35 (0.11, 1.18)	0.091
	Unemployed	0.96 (0.70, 1.31)	0.778	1.98 (1.06, 3.73)	0.033
	Employed	1		1	
Education	Associate's degree and above	0.87 (0.66, 1.16)	0.335	0.80 (0.46, 1.40)	0.436
	Middle school and below	1		1	
Perceived severity of the epidemic in current residence place	Severe	0.95 (0.74, 1.21)	0.654	0.73 (0.44, 1.22)	0.226
	Not severe	1		1	
Having family members or close relatives infected with SARS-CoV-2**	Yes	0.37 (0.16, 0.85)	0.019	0.76 (0.17, 3.29)	0.708
	No	1		1	
Having colleagues, friends or classmates infected with SARS-CoV-2**	Yes	1.32 (1.01, 1.74)	0.045	1.71 (0.99, 2.97)	0.056
	No	1		1	
Having infected neighbors living in the same community/village	Yes	1.11 (0.85, 1.45)	0.426	1.03 (0.58, 1.81)	0.927
	No	1		1	
Psychological distress	Yes	2.08 (1.61, 2.68)	<0.001	1.62 (0.93, 2.83)	0.088
	No	1		1	
Anxiety symptoms	Yes	3.17 (2.45, 4.10)	<0.001	1.73 (0.98, 3.05)	0.059
	No	1		1	
Depressive symptoms	Yes	4.14 (3.29, 5.21)	<0.001	4.70 (2.73, 8.10)	<0.001
	No	1		1	

*, "Others" included re-married, co-habiting, separated, divorced, and widowed. **, SARS-CoV-2: Severe Acute Respiratory Syndrome Coronavirus 2.