

Table S1 Scores of depression, anxiety, and insomnia measurements in the total population and different subgroups. HCW: health care workers, NHCW: non-health care workers

Scale	Total score, median (IQR)	Stages, median (IQR)			Gender, median (IQR)			Location, median (IQR)				Occupation, median (IQR)		
		Outbreak	Remission	p	Male	Female	p	Wuhan	Hubei other than Wuhan	Other provinces	p	HCWs	NHCWs	p
PHQ-9	5(2-9)	5(2-9)	6(2-11)	0.005	4(1-8)	5(2-10)	<0.001	5(2-9)	5(2-10)	4(1-9)	0.001	5(2-9)	6(2-11)	<0.001
GAD-7	4(1-9)	4(1-7)	5(1-8)	0.149	3(0-7)	4(1-8)	<0.001	5(1-8)	3(1-7)	3(0-7)	<0.001	4(1-7)	4(1-8)	0.002
ISI	4(1-8)	4(1-8)	6(2-10)	<0.001	4(1-8)	5(1-9)	0.002	5(1-9)	4(1-9)	0(1-9)	<0.001	4(1-8)	5(2-10)	<0.001

Table S2 Factors associated with psychological problems in healthcare workers versus nonhealthcare workers.

Characteristic	Depression		Anxiety		Insomnia	
	p	OR (95% CI)	p	OR (95% CI)	p	OR (95% CI)
<i>Healthcare workers</i>						
Gender						
Female	<0.001	1.73(1.39, 2.15)	0.001	1.44(1.15, 1.80)		
Male	1		1			
Dwelling state						
Living alone	<0.001	1.71(1.39, 2.09)	0.003	1.40(1.12, 1.75)	0.004	1.57(1.15, 2.14)
Living together	1		1		1	
Having organic disease						
Yes	<0.001	1.89(1.40, 2.56)	<0.001	2.35(1.71, 3.22)	<0.001	2.81(1.96, 4.03)
No	1		1		1	
City with over 1000 confirmed cases (yes vs no)						
Yes	0.03	1.26(1.03, 1.54)				
No	1					
Personal infection						
Confirmed	0.033	1.87(1.05, 3.31)	<0.001	3.05(1.84, 5.05)	<0.001	3.46(1.84, 6.50)
Suspected	<0.001	4.13(2.19, 7.79)	<0.001	3.07(1.83, 5.13)	<0.001	4.71(2.10, 10.60)
Quarantine	<0.001	2.56(1.80, 3.63)	<0.001	3.11(2.16, 4.48)	<0.01	2.36(1.37, 4.07)
Close contactor	<0.001	1.70(1.32, 2.21)	0.061	1.33(0.99, 1.78)	<0.01	1.65(1.16, 2.36)
No	1		1		1	
<i>Non-healthcare workers</i>						
Gender						

Female	<0.001	1.58(1.29, 1.94)				
Male	1					
Living state						
Living alone	0.003	1.47(1.14, 1.91)			<0.001	2.05(1.48, 2.82)
Living together	1				1	
Having organic diseases						
Yes	<0.001	2.08(1.64, 2.65)	<0.001	2.27(1.76, 2.92)	<0.001	2.04(1.51, 2.77)
No	1		1		1	
Marital status						
Single	<0.001	2.54(1.25, 5.17)	<0.001	4.53(2.24, 9.15)	0.02	1.42(1.06, 1.90)
Married	1		1		1	
Education level						
Senior highschool or lower					<0.001	1.69(1.27, 2.24)
College or higher					1	
Personal infection						
Confirmed	0.041	0.56(0.32, 0.98)	0.26	0.72(0.40, 1.28)	0.8	0.92(0.48, 1.76)
Suspected	0.122	1.90(0.84, 4.29)	0.071	2.17(0.94, 5.02)	0.02	2.84(1.18, 6.85)
Quarantine	0.168	1.49(0.85, 2.62)	0.003	2.32(1.32, 4.08)	0.082	1.80(0.93, 3.49)
Close contactor	0.01	2.54(1.25, 5.17)	<0.001	4.53(2.24, 9.15)	0.229	1.71(0.72, 4.07)
No	1		1		1	

Table S3 Factors associated with psychological problems in three age groups.

characteristic	Depression		Anxiety		Insomnia	
	p	OR (95% CI)	p	OR (95% CI)	p	OR (95% CI)
< 25 years old						
Gender						
Females	<0.001	1.92(1.45, 2.55)				
Males	1					
Dwelling state						
Living alone					<0.001	2.22(1.51, 3.24)
Living together					1	
Having organic diseases						
Yes	<0.001	3.05(2.02, 4.60)	<0.001	3.74(2.49, 5.62)	0.001	2.37(1.44, 3.90)
No	1		1		1	
Occupation						
Nonhealthcare workers	<0.001	2.20(1.64, 2.95)	<0.001	1.92(1.38, 2.68)	0.046	1.52(1.01, 2.29)
Healthcare workers	1		1		1	
Marital status						
Single	0.005	1.47(1.12, 1.93)				
Married	1					
Personal infection						
Confirmed	0.811	1.12(0.45, 2.79)	0.083	2.21(0.90, 5.44)	0.223	1.93(0.67, 5.54)
Suspected	<0.001	7.84(2.83, 21.78)	0.005	3.98(1.53, 10.32)	<0.001	15.15(4.59, 49.98)
Quarantine	0.001	2.69(1.46, 4.95)	<0.001	4.04(2.18, 7.49)	0.005	3.07(1.40, 6.74)
Close contactor	0.017	1.75(1.10, 2.79)	0.024	1.81(1.08, 3.02)	0.137	1.63(0.86, 3.08)
No	1		1		1	

25-45 years old						
Stage of the COVID-19 epidemic in China						
Remission			0.012	1.36(1.07, 1.73)		
Outbreak			1			
Gender						
Females	<0.001	1.50(1.24, 1.81)	0.039	1.24(1.01, 1.52)		
Males	1		1			
Dwelling state						
Living alone	<0.001	1.80(1.47, 2.21)				
Living together	1					
Having organic diseases						
Yes	<0.001	2.01(1.53, 2.64)	<0.001	2.33(1.75, 3.11)	<0.001	2.71(1.96, 3.76)
No	1		1		1	
Occupation						
Nonhealthcare workers	<0.001	1.84(1.50, 2.26)	<0.001	1.63(1.30, 2.06)		
Healthcare workers	1		1			
Education level						
Senior highschool or lower					0.001	1.85(1.28, 2.66)
College or higher					1	
Living area						
In Wuhan					0.001	1.57(1.21, 2.02)

Other than Wuhan					1	
Personal infection						
Confirmed	0.05	1.72(1.00, 2.97)	0.001	2.66(1.53, 4.64)		
Suspected	0.046	1.77(1.01, 3.12)	<0.001	2.94(1.68, 5.16)		
Quarantine	0.009	1.66(1.13, 2.42)	<0.001	2.48(1.69, 3.64)		
Close contactor	0.009	1.47(1.10, 1.95)	0.102	1.31(0.95, 1.81)		
No	1		1			
>45 years old						
Dwelling state						
Living alone	<0.001	2.55(1.59, 4.08)	<0.001	2.68(1.66, 4.34)	0.001	2.73(1.53, 4.86)
Living together	1		1		1	
Having organic diseases						
Yes	<0.001	2.36(1.61, 3.45)	0.009	1.72(1.15, 2.59)	0.026	1.72(1.07, 2.77)
No	1		1		1	
Education level						
Senior highschool or lower					<0.001	2.87(1.82, 4.54)
College or higher					1	
Occupation						
Nonhealthcare workers			0.014	1.77(1.12, 2.77)		
Healthcare workers			1			
Personal infection						
Confirmed	0.625	0.85(0.45, 1.63)	0.816	0.92(0.47, 1.80)		
Suspected	0.167	2.04(0.74, 5.63)	0.528	1.45(0.46, 4.58)		
Quarantine	0.019	2.63(1.17, 5.89)	0.001	3.76(1.69, 8.32)		
Close contactor	0.541	0.76(0.32, 1.82)	0.334	1.53(0.64, 3.65)		

No

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