

Table S1. Sociodemographic information of medical staff in Shanghai during the COVID-19 epidemic.

Characteristics	Phase I survey	Phase II survey
	Cases (%)	Cases (%)
Gender		
Male	602 (27.5%)	528 (51.2%)
Female	1590 (72.5%)	503 (48.8%)
Age		
<30	512 (23.4%)	120 (11.6%)
30–50	1509 (68.8%)	816 (79.1%)
>50	171 (7.8%)	95 (9.2%)
Educational level		
Junior college or less	689 (31.4%)	269 (26.1%)
Undergraduate	1078 (49.2%)	693 (67.2%)
Postgraduate or more	425 (19.4%)	69 (6.7%)
Marital status		
Married	1565 (71.4%)	835 (81.0%)
Others	627 (28.6%)	196 (19.0%)
History of chronic disease		
Yes	407 (18.6%)	723 (70.1%)
No	1785 (81.4%)	308 (29.9%)
Occupation		
Doctor	425 (19.4%)	382 (37.1%)
Nurse	1139 (52.0%)	490 (47.5%)
Medical technicians	249 (11.4%)	89 (8.6%)
Administrative staff	71 (3.2%)	39 (3.8%)
Others	308 (14.1%)	31 (3.0%)
Department of work		
Fever clinic/Infectious disease department	48 (2.2%)	226 (21.9%)
Emergency/Intensive care unit/Hemodialysis room	141 (6.4%)	260 (25.2%)
Clinical laboratory	109 (5.0%)	234 (22.7%)
Other clinical departments	1292 (58.9%)	158 (15.3%)
Party affairs medical management department	28 (1.3%)	17 (1.6%)
Logistics support department	162 (7.4%)	24 (2.3%)
Others	412 (18.8%)	112 (10.9%)
Hospital type		
Primary hospital	19 (0.9%)	1 (0.1%)
Secondary hospital	31 (1.4%)	8 (0.8%)
Tertiary hospital	2142 (97.7%)	1022 (99.1%)
Technical title		
No	503 (22.9%)	47 (4.6%)
Junior	881 (40.2%)	810 (78.6%)
Intermediate	638 (29.1%)	141 (13.7%)
Senior	170 (7.7%)	33 (3.2%)
Working years (years)		
<3	404 (18.4%)	74 (7.2%)
3–6	500 (22.8%)	407 (39.5%)
7–10	376 (17.2%)	299 (29.0%)
>10	912 (41.6%)	251 (24.3%)
Average working hours since epidemic (hours/day)		
<9	1190 (54.3%)	241 (23.4%)
9–10	546 (24.9%)	301 (29.2%)
11–12	266 (12.1%)	440 (42.7%)
>12	190 (8.7%)	49 (4.8%)
Present workplace		
Mobile cabin hospital	524 (23.9%)	40 (3.9%)
Designated hospital	275 (12.5%)	7 (0.7%)
Nucleic acid sampling team	39 (1.8%)	882 (85.5%)
Stayed at the hospital	829 (37.8%)	102 (9.9%)
Others	525 (24.0%)	
Present living place		
Living in a closed loop in workplace	954 (43.5%)	33 (3.2%)
Living alone	283 (12.9%)	962 (93.3%)
Living with family	802 (36.6%)	31 (3.0%)
Others	153 (7.0%)	5 (0.5%)
History of chronic disease in family members		
Yes	1033 (47.1%)	792 (76.8%)
No	1159 (52.9%)	239 (23.2%)

Table S2. Prevalence of depression, anxiety, stress, and post-traumatic stress disorder (PTSD) among medical staff in the Phase I survey.

Characteristics	Depression (n=997) n (%)	χ^2	P	Anxiety (n=919) n (%)	χ^2	P	Stress (n=446) n (%)	χ^2	P	PTSD (n=1656) n (%)	χ^2	P
Gender												
Male	263 (43.7%)	1.079	0.299	243 (40.4%)	0.829	0.362	122 (20.3%)	0.003	0.954	432 (71.8%)	6.442	0.011
Female	734 (46.2%)			676 (42.5%)			324 (20.4%)			1224 (77.0%)		
Age												
<30	234 (45.7%)	12.334	0.002	222 (43.4%)	15.896	<0.001	105 (20.5%)	5.518	0.063	366 (71.5%)	14.224	0.001
30–50	707 (46.9%)			650 (43.1%)			318 (21.1%)			1174 (77.8%)		
>50	56 (32.7%)			47 (27.5%)			23 (13.5%)			116 (67.8%)		
Educational level												
Junior college or less	291 (42.2%)	6.736	0.034	275 (39.9%)	31.565	<0.001	119 (17.3%)	6.468	0.039	485 (70.4%)	16.277	<0.001
Undergraduate	520 (48.2%)			509 (47.2%)			240 (22.3%)			850 (78.8%)		
Postgraduate or more	186 (43.8%)			135 (31.8%)			87 (20.5%)			321 (75.5%)		
Marital status												
Married	691 (44.2%)	4.012	0.135	645 (41.2%)	1.137	0.566	309 (19.7%)	1.225	0.542	1187 (75.8%)	0.516	0.773
Others	306 (48.8%)			274 (43.7%)			137 (21.9%)			469 (74.8%)		
History of chronic disease												
Yes	240 (59.0%)	36.651	<0.001	240 (59.0%)	59.624	<0.001	111 (27.3%)	14.793	<0.001	339 (83.3%)	16.229	<0.001
No	757 (42.4%)			679 (38.0%)			335 (18.8%)			1317 (73.8%)		
Occupation												
Doctor	206 (48.5%)	90.395	<0.001	170 (40.0%)	103.125	<0.001	90 (21.2%)	40.282	<0.001	326 (76.7%)	35.403	<0.001
Nurse	592 (52.0%)			577 (50.7%)			268 (23.5%)			904 (79.4%)		
Medical technicians	91 (36.5%)			74 (29.7%)			41 (16.5%)			180 (72.3%)		
Administrative staff	36 (50.7%)			31 (43.7%)			21 (29.6%)			50 (70.4%)		
Others	72 (23.4%)			67 (21.8%)			26 (8.4%)			196 (63.6%)		
Department of work												
Fever clinic/Infectious disease department	18 (37.5%)	63.325	<0.001	15 (31.3%)	63.774	<0.001	9 (18.8%)	25.661	<0.001	33 (68.8%)	28.349	<0.001
Emergency/Intensive care unit/Hemo-dialysis room	83 (58.9%)			83 (58.9%)			37 (26.2%)			117 (83.0%)		
Clinical laboratory	53 (48.6%)			50 (45.9%)			24 (22.0%)			86 (78.9%)		
Other clinical departments	625 (48.4%)			586 (45.4%)			278 (21.5%)			1005 (77.8%)		
Party affairs medical management department	13 (46.4%)			11 (39.3%)			9 (32.1%)			21 (75.0%)		
Logistics support department	31 (19.1%)			36 (22.2%)			11 (6.8%)			102 (63.0%)		
Others	174 (42.2%)			138 (33.5%)			78 (18.9%)			292 (70.9%)		
Hospital type												
Primary hospital	9 (47.4%)	4.630	0.099	9 (47.4%)	3.618	0.164	7 (36.8%)	3.328	0.189	16 (84.2%)	1.796	0.407
Secondary hospital	20 (64.5%)			18 (58.1%)			7 (22.6%)			21 (67.7%)		
Tertiary hospital	968 (45.2%)			892 (41.6%)			432 (20.2%)			1619 (75.6%)		
Technical title												
No	178 (35.4%)	28.855	<0.001	157 (31.2%)	40.055	<0.001	74 (14.7%)	15.091	0.005	332 (66.0%)	40.925	<0.001
Junior	433 (49.1%)			412 (46.8%)			192 (21.8%)			692 (78.5%)		
Intermediate	309 (48.4%)			286 (44.8%)			142 (22.3%)			503 (78.8%)		
Senior	93 (54.7%)			64 (37.6%)			38 (22.4%)			129 (75.9%)		
Working years												
<3	173 (42.8%)	17.967	<0.001	156 (38.6%)	14.283	0.003	67 (16.6%)	12.917	0.005	273 (67.6%)	22.985	<0.001
3–6	239 (47.8%)			233 (46.6%)			111 (22.2%)			368 (73.6%)		
7–10	203 (54.0%)			177 (47.1%)			97 (25.8%)			302 (80.3%)		
>10	382 (41.9%)			353 (38.7%)			171 (18.8%)			713 (78.2%)		

Average working hours since epidemic (hours/day)												
<9	497 (41.8%)	15.165	0.002	408 (34.3%)	66.456	<0.001	189 (15.9%)	33.915	<0.001	853 (71.7%)	22.925	<0.001
9–10	277 (50.7%)			292 (53.5%)			143 (26.2%)			443 (81.1%)		
11–12	133 (50.0%)			133 (50.0%)			72 (27.1%)			205 (77.1%)		
>12	90 (47.4%)			86 (45.3%)			42 (22.1%)			155 (81.6%)		
Present workplace												
Mobile cabin hospital	250 (47.7%)	22.280	<0.001	265 (50.6%)	58.614	<0.001	123 (23.5%)	20.378	<0.001	401 (76.5%)	3.926	0.416
Designated hospital	104 (37.8%)			114 (41.5%)			53 (19.3%)			206 (74.9%)		
Nucleic acid sampling team	28 (71.8%)			26 (66.7%)			12 (30.8%)			32 (82.1%)		
Stayed at the hospital	394 (47.5%)			358 (43.2%)			184 (22.2%)			635 (76.6%)		
Others	221 (42.1%)			156 (29.7%)			74 (14.1%)			382 (72.8%)		
Present Living place												
Living in a closed loop in workplace	423 (44.3%)	7.634	0.054	416 (43.6%)	17.871	<0.001	211 (22.1%)	17.312	0.001	723 (75.8%)	0.519	0.915
Living alone	144 (50.9%)			144 (50.9%)			76 (26.9%)			217 (76.7%)		
Living with family	372 (46.4%)			300 (37.4%)			133 (16.6%)			603 (75.2%)		
Others	58 (37.9%)			59 (38.6%)			26 (17.0%)			113 (73.9%)		
History of chronic disease in family members												
Yes	541 (52.4%)	37.384	<0.001	516 (50.0%)	51.694	<0.001	257 (24.9%)	24.762	<0.001	821 (79.5%)	16.333	<0.001
No	456 (39.3%)			403 (34.8%)			189 (16.3%)			835 (72.0%)		

Table S3. Prevalence of depression, anxiety, stress, and post-traumatic stress disorder (PTSD) among medical staff in the Phase II survey.

Characteristics	Depression (n=204) n (%)	χ^2	P	Anxiety (n=221) n (%)	χ^2	P	Stress (n=291) n (%)	χ^2	P	PTSD (n=126) n (%)	χ^2	P
Gender												
Male	51 (9.7%)	69.938	<0.001	56 (10.6%)	75.366	<0.001	73 (13.8%)	110.764	<0.001	30 (5.7%)	43.141	<0.001
Female	153 (30.4%)			165 (32.8%)			218 (43.3%)			96 (19.1%)		
Age												
<30	34 (28.3%)	30.972	<0.001	34 (28.3%)	30.370	<0.001	45 (37.5%)	34.736	<0.001	24 (20.0%)	12.096	0.002
30–50	134 (16.4%)			148 (18.1%)			198 (24.3%)			85 (10.4%)		
>50	36 (37.9%)			39 (41.1%)			48 (50.5%)			17 (17.9%)		
Educational level												
Junior college or less	50 (18.6%)	12.601	0.002	55 (20.4%)	30.763	<0.001	73 (27.1%)	26.440	<0.001	35 (13.0%)	5.140	0.077
Undergraduate	129 (18.6%)			133 (19.2%)			180 (26.0%)			77 (11.1%)		
Postgraduate or more	25 (36.2%)			33 (47.8%)			38 (55.1%)			14 (20.3%)		
Marital status												
Married	149 (17.8%)	10.440	0.001	161 (19.3%)	12.102	0.001	213 (25.5%)	15.994	<0.001	89 (10.7%)	9.996	0.002
Others	55 (28.1%)			60 (30.6%)			78 (39.8%)			37 (18.9%)		
History of chronic disease												
Yes	34 (4.7%)	346.945	<0.001	33 (4.6%)	409.051	<0.001	60 (8.3%)	474.341	<0.001	14 (1.9%)	238.635	<0.001
No	170 (55.2%)			188 (61.0%)			231 (75.0%)			112 (36.4%)		
Occupation												
Doctor	18 (4.7%)	221.291	<0.001	22 (5.8%)	232.862	<0.001	24 (6.3%)	296.423	<0.001	10 (2.6%)	109.601	<0.001
Nurse	94 (19.2%)			99 (20.2%)			142 (29.0%)			64 (13.1%)		
Medical technicians	40 (44.9%)			47 (52.8%)			63 (70.8%)			23 (25.8%)		
Administrative staff	29 (74.4%)			27 (69.2%)			34 (87.2%)			13 (33.3%)		
Others	23 (74.2%)			26 (83.9%)			28 (90.3%)			16 (51.6%)		
Department of work												
Fever clinic/Infectious disease department	9 (4.0%)	434.513	<0.001	9 (4.0%)	486.583	<0.001	15 (6.6%)	650.383	0.001	7 (3.1%)	214.404	<0.001
Emergency/Intensive care unit/Hemo-dialysis unit/Hemo-dialysis room	12 (4.6%)			10 (3.8%)			16 (6.2%)			9 (3.5%)		
Clinical laboratory	4 (1.7%)			4 (1.7%)			4 (1.7%)			2 (0.9%)		
Other clinical departments	87 (55.1%)			99 (62.7%)			126 (79.7%)			52 (32.9%)		
Party affairs medical management department	16 (94.1%)			15 (88.2%)			17 (100.0%)			6 (35.3%)		
Logistics support department	21 (87.5%)			20 (83.3%)			23 (95.8%)			11 (45.8%)		
Others	55 (49.1%)			64 (57.1%)			90 (80.4%)			39 (34.8%)		
Hospital type												
Primary hospital	1 (100%)	6.031	0.049	1 (100.0%)	5.583	0.054	1 (100.0%)	5.700	0.058	0 (0.0%)	1.264	0.532
Secondary hospital	0 (0.0%)			0 (0.0%)			0 (0.0%)			0 (0.0%)		
Tertiary hospital	203 (19.9%)			220 (21.5%)			290 (28.4%)			126 (12.3%)		
Technical title												
No	37 (78.7%)	236.040	<0.001	39 (83.0%)	250.409	<0.001	43 (91.5%)	274.976	<0.001	26 (55.3%)	131.295	<0.001
Junior	84 (10.4%)			93 (11.5%)			133 (16.4%)			56 (6.9%)		
Intermediate	64 (45.4%)			67 (47.5%)			89 (63.1%)			34 (24.1%)		
Senior	19 (57.6%)			22 (66.7%)			26 (78.8%)			10 (30.3%)		
Working years												
<3	29 (39.2%)	283.271	<0.001	33 (44.6%)	338.303	<0.001	34 (45.9%)	453.322	<0.001	20 (27.0%)	148.263	<0.001
3–6	21 (5.2%)			19 (4.7%)			33 (8.1%)			16 (3.9%)		
7–10	20 (6.7%)			21 (7.0%)			28 (9.4%)			11 (3.7%)		
>10	134 (53.4%)			148 (59.0%)			196 (78.1%)			79 (31.5%)		

Average working hours since Shanghai is fully liberated (hours/day)												
<9	135 (56.0%)	286.402	<0.001	151 (62.7%)	343.206	<0.001	188 (78.0%)	431.844	<0.001	81 (33.6%)	149.102	<0.001
9–10	54 (17.9%)			55 (18.3%)			81 (26.9%)			34 (11.3%)		
11–12	12 (2.7%)			12 (2.7%)			17 (3.9%)			8 (1.8%)		
>12	3 (6.1%)			3 (6.1%)			5 (10.2%)			3 (6.1%)		
Present workplace												
Designated hospital	16 (40.0%)	96.507	<0.001	17 (42.5%)	100.439	<0.001	30 (75.0%)	196.264	<0.001	11 (27.5%)	59.275	<0.001
Nucleic acid sampling team	4 (57.1%)			2 (28.6%)			4 (57.1%)			1 (14.3%)		
Non-designated hospital	131 (14.9%)			144 (16.3%)			178 (20.2%)			80 (9.1%)		
Others	53 (52.0%)			58 (56.9%)			79 (77.5%)			34 (33.3%)		
Present living place												
Living alone	18 (54.5%)	44.646	<0.001	18 (54.5%)	40.444	<0.001	23 (69.7%)	47.114	<0.001	9 (27.3%)	22.048	<0.001
Living with family	182 (18.9%)			199 (20.7%)			264 (27.4%)			114 (11.9%)		
Stayed at quarantine hotel	0 (0.0%)			0 (0.0%)			0 (0.0%)			0 (0.0%)		
Others	4 (80.0%)			4 (80.0%)			4 (80.0%)			3 (60.0%)		
History of chronic disease in family members												
Yes	82 (10.4%)	191.547	<0.001	82 (10.4%)	249.149	<0.001	127 (16.0%)	250.589	<0.001	44 (5.6%)	141.502	<0.001
No	122 (51.0%)			139 (58.2%)			164 (68.6%)			82 (34.3%)		

Table S4. Mean differences of fatigue scores by socio-demographic variables among medical staff in the Phase I survey.

Factors	N	FAI scores ($\bar{x} \pm s$)	F/t	P
Gender				
Male	602	106.85 \pm 46.126	3.772	<0.001
Female	1590	126.67 \pm 44.460		
Age				
<30	512	120.63 \pm 46.347	0.611	0.543
30–50	1509	121.81 \pm 45.408		
>50	171	117.92 \pm 47.381		
Educational level				
Junior college or less	689	112.76 \pm 49.440	17.427	<0.001
Undergraduate	1078	125.14 \pm 44.262		
Postgraduate or more	425	125.02 \pm 41.423		
Marital status				
Married	1565	120.30 \pm 45.865	0.336	0.135
Others	627	123.54 \pm 45.506		
History of chronic disease				
Yes	407	123.08 \pm 46.048	0.258	0.365
No	1785	120.80 \pm 45.716		
Occupation				
Doctor	425	112.25 \pm 44.928	13.437	<0.001
Nurse	1139	126.49 \pm 46.675		
Medical technicians	249	124.92 \pm 39.101		
Administrative staff	71	126.42 \pm 46.875		
Others	308	109.97 \pm 44.682		
Department of work				
Fever clinic/Infectious disease department	48	125.21 \pm 50.221	8.110	<0.001
Emergency/Intensive care unit/Hemodialysis room	141	138.83 \pm 41.811		
Clinical laboratory	109	125.46 \pm 43.116		
Other clinical departments	1292	119.62 \pm 46.239		
Party affairs medical management department	28	122.50 \pm 49.120		
Logistics support department	162	104.72 \pm 48.241		
Others	412	125.07 \pm 42.060		
Hospital type				
Primary hospital	19	122.11 \pm 54.843	6.034	0.002
Secondary hospital	31	92.94 \pm 50.569		
Tertiary hospital	2142	121.63 \pm 45.514		
Technical title				
No	503	109.26 \pm 47.181	24.042	<0.001
Junior	881	129.65 \pm 44.720		
Intermediate	638	121.25 \pm 43.619		
Senior	170	112.86 \pm 45.850		
Working years				
<3	404	108.73 \pm 48.687	30.980	<0.001
3–6	500	114.35 \pm 46.815		
7–10	376	118.68 \pm 46.228		
>10	912	131.58 \pm 41.298		
Average working hours since epidemic (hours/day)				
<9	1190	122.00 \pm 44.188	1.243	0.292
9–10	546	118.52 \pm 48.641		
11–12	266	120.50 \pm 48.269		
>12	190	125.17 \pm 43.329		
Present workplace				
Cabin hospital	524	102.27 \pm 46.983	45.091	<0.001
Designated hospital	275	117.93 \pm 45.345		
Nucleic acid sampling team	39	98.13 \pm 47.973		
Stayed at the hospital	829	134.00 \pm 42.894		
Others	525	123.41 \pm 41.732		

Present living place				
Living in a closed loop in workplace	954	125.43 ± 46.597	8.338	<0.001
Living alone	283	110.24 ± 46.568		
Living with family	802	120.38 ± 43.754		
Others	153	119.79 ± 46.236		
History of chronic disease in family members				
Yes	1033	129.39 ± 44.338	2.334	<0.001
No	1159	113.95 ± 45.830		

FAI: Fatigue Assessment Instrument. Student's *t*-test.

Table S5. Mean differences of fatigue scores by socio-demographic variables among medical staff in the Phase II survey.

Factors	N	FAI scores ($\bar{y} \pm s$)	F/t	P
Gender				
Male	528	148.59 \pm 42.918	8.337	0.004
Female	503	140.68 \pm 45.077		
Age				
<30	120	138.00 \pm 45.784	3.899	0.021
30–50	816	146.69 \pm 43.468		
>50	95	136.43 \pm 46.400		
Educational level				
Junior college or less	269	138.86 \pm 45.34	6.303	0.002
Undergraduate	693	148.04 \pm 43.24		
Postgraduate or more	69	134.35 \pm 44.98		
Marital status				
Married	835	144.65 \pm 44.25	0.014	0.905
Others	196	145.07 \pm 43.79		
History of chronic disease				
Yes	723	153.02 \pm 40.06	93.051	<0.001
No	308	125.27 \pm 47.13		
Occupation				
Doctor	382	163.77 \pm 36.52	43.060	<0.001
Nurse	490	136.61 \pm 41.6		
Medical technicians	89	135.87 \pm 48.59		
Administrative staff	39	124.54 \pm 42.08		
Others	31	89.42 \pm 54.45		
Department of work				
Fever clinic/Infectious disease department	226	141.07 \pm 43.63	25.417	<0.001
Emergency/Intensive care unit/Hemodialysis room	260	149.88 \pm 38.51		
Clinical laboratory	234	167.23 \pm 34.37		
Other clinical departments	158	132.78 \pm 45.3		
Party affairs medical management department	17	122.41 \pm 42.18		
Logistics support department	24	100.17 \pm 51.76		
Others	112	122.96 \pm 47.17		
Hospital type				
Primary hospital	1	116.00 \pm 00.00	0.271	0.763
Secondary hospital	8	150.13 \pm 46.54		
Tertiary hospital	1022	144.72 \pm 44.16		
Technical title				
No	47	98.96 \pm 50.69	24.359	<0.001
Junior	810	149.36 \pm 41.52		
Intermediate	141	137.47 \pm 47.11		
Senior	33	127.30 \pm 39.55		
Working years				
<3	74	135.11 \pm 52.79	13.571	<0.001
3–6	407	149.82 \pm 41.86		
7–10	299	151.49 \pm 40.92		
>10	251	131.27 \pm 45.44		
Average working hours since epidemic (hours/day)				
<9	241	124.53 \pm 45.64	35.638	<0.001
9–10	301	141.03 \pm 43.65		
11–12	440	155.21 \pm 39.56		
>12	49	172.76 \pm 35.12		
Present workplace				
Designated hospital	40	140.65 \pm 42.62	4.743	0.003
Nucleic acid sampling team	7	138 \pm 41.31		
Stayed at the hospital	882	146.71 \pm 43.45		
Others	102	129.72 \pm 48.25		

Present living place				
Living in a closed loop in workplace	33	120.3 ± 46.89	6.496	<0.001
Living alone	962	145.87 ± 43.92		
Living with family	31	144.71 ± 34.73		
Others	5	87.4 ± 48.44		
History of chronic disease in family members				
Yes	792	151.15 ± 41.37	77.565	<0.001
No	239	123.47 ± 46.4		

FAI: Fatigue Assessment Instrument. Student's *t*-test.

Table S6. Multiple linear regression for fatigue of medical staff in the Phase I survey.

Variables	B	Standard Error	β	t	P Value
(Constant)	9.278	0.213		43.470	<0.001
Gender (Reference: Female)					
Male	-0.291	0.407	-0.015	-0.715	0.475
(Constant)	6.596	0.648		10.173	<0.001
Age (Reference: >50)					
<30	2.900	0.749	0.144	3.872	<0.001
30–50	2.795	0.684	0.152	4.085	<0.001
(Constant)	8.908	0.412		21.602	<0.001
Educational level (Reference: Postgraduate or more)					
Junior college or less	-0.241	0.524	-0.013	-0.459	0.646
Undergraduate	0.743	0.487	0.044	1.526	0.127
(Constant)	9.668	0.340		28.460	<0.001
Marital status (Reference: Others)					
Married	-0.659	0.402	-0.035	-1.638	0.101
(Constant)	8.605	0.199		43.176	<0.001
Chronic disease (Reference: No)					
Yes	3.193	0.463	0.146	6.904	<0.001
(Constant)	5.201	0.474		10.976	<0.001
Occupation (Reference: Others)					
Doctor	3.980	0.622	0.185	6.395	<0.001
Nurse	5.329	0.534	0.313	9.977	<0.001
Medical technicians	2.686	0.709	0.100	3.790	<0.001
Administrative staff	4.658	1.095	0.097	4.254	<0.001
(Constant)	8.544	0.413		20.673	<0.001
Department of work (Reference: others)					
Fever clinic/Infectious disease department	-0.210	1.279	-0.004	-0.164	0.869
Emergency/Intensive care unit/Hemodialysis room	2.960	0.818	0.085	3.616	<0.001
Clinical laboratory	0.594	0.904	0.015	0.657	0.511
Other clinical departments	1.209	0.475	0.070	2.547	0.011
Party affairs medical management department	1.742	1.638	0.023	1.063	0.288
Logistics support department	-4.000	0.778	-0.123	-5.142	<0.001
(Constant)	9.192	0.184		49.975	<0.001
Hospital type (Reference: Tertiary hospital)					
Primary hospital	-0.456	1.962	-0.005	-0.232	0.816
Secondary hospital	0.679	1.540	0.009	0.441	0.660
(Constant)	9.035	0.649		13.927	<0.001
Technical title (Reference: Senior)					
No	-1.552	0.750	-0.077	-2.068	0.039
Junior	0.960	0.709	0.055	1.355	0.176
Intermediate	0.457	0.730	0.024	0.626	0.532
(Constant)	8.509	0.280		30.353	<0.001
Working years (Reference: >10)					
<3	-0.182	0.506	-0.008	-0.360	0.719
3–6	1.715	0.471	0.085	3.641	<0.001
7–10	1.933	0.519	0.086	3.725	<0.001
(Constant)	9.211	0.613		15.024	<0.001
Average working hours since epidemic (Reference: >12)					
<9	-0.890	0.660	-0.052	-1.347	0.178
9–10	1.577	0.712	0.080	2.216	0.027
11–12	0.639	0.803	0.025	0.796	0.426
(Constant)	8.217	0.370		22.218	<0.001
Present workplace (Reference: Others)					
Mobile cabin hospital	1.894	0.523	0.095	3.619	<0.001
Designated hospital	0.117	0.631	0.005	0.186	0.852
Nucleic acid sampling team	4.347	1.406	0.068	3.091	0.002
Stayed at the hospital	1.153	0.473	0.066	2.440	0.015

(Constant)	8.131	0.687		11.832	<0.001
Present living place (Reference: Others)					
Living in a closed loop in workplace	1.131	0.740	0.066	1.528	0.127
Living alone	2.173	0.853	0.086	2.548	0.011
Living with family	0.804	0.750	0.046	1.073	0.283
(Constant)	8.033	0.247		32.473	<0.001
History of chronic disease in family members (Reference: No)					
Yes	2.473	0.360	0.145	6.862	<0.001
(Constant)	84.029	1.446		58.105	<0.001
Values					
DASS-21 Depression	0.450	0.173	0.084	2.600	0.009
DASS-21 Anxiety	-0.968	0.201	-0.170	-4.806	<0.001
DASS-21 Stress	0.695	0.201	0.134	3.455	0.001
IES-R	1.707	0.089	0.509	19.166	<0.001

B: unstandardized coefficients; β : standardized coefficients. $\beta=0.1$ is considered small, $\beta=0.3$ is considered medium, and $\beta=0.5$ is considered large according to the guidelines by Cohen. DASS-21: Depression Anxiety Stress Scale-21; IES-R: Impact of Event Scale-Revised.

Table S7. Multiple linear regression for fatigue of medical staff in the Phase II survey.

Variables	B	Standard Error	β	t	P Value
(Constant)	140.680	1.961		71.733	<0.001
Gender (Reference: Female)					
Male	7.913	2.740	0.090	2.887	0.004
(Constant)	136.432	4.516		30.210	<0.001
Age (Reference: >50)					
<30	1.568	6.045	0.011	0.259	0.795
30–50	10.257	4.772	0.094	2.150	0.032
(Constant)	134.348	5.287		25.412	<0.001
Educational level (Reference: Postgraduate or more)					
Junior college or less	4.515	5.926	0.045	0.762	0.446
Undergraduate	13.697	5.544	0.146	2.471	0.014
(Constant)	145.071	3.154		45.990	<0.001
Marital status (Reference: Others)					
Married	−0.419	3.505	−0.004	−0.119	0.905
(Constant)	125.266	2.410		51.982	<0.001
Chronic disease (Reference: No)					
Yes	27.759	2.878	0.288	9.646	<0.001
(Constant)	89.419	7.350		12.165	<0.001
Occupation (Reference: Others)					
Doctor	74.348	7.643	0.814	9.728	<0.001
Nurse	47.191	7.579	0.534	6.226	<0.001
Medical technicians	46.446	8.535	0.296	5.442	<0.001
Administrative staff	35.119	9.847	0.152	3.566	<0.001
(Constant)	122.964	3.903		31.508	<0.001
Department of work (Reference: others)					
Fever clinic/Infectious disease department	18.102	4.773	0.170	3.793	<0.001
Emergency/Intensive Care Unit/Hemodialysis Room	26.916	4.668	0.265	5.766	<0.001
Clinical laboratory	44.266	4.746	0.420	9.328	<0.001
Other clinical departments	9.821	5.102	0.080	1.925	0.055
Party affairs medical management department	−0.553	10.750	−0.002	−0.051	0.959
Logistics support department	−22.798	9.290	−0.078	−2.454	0.014
(Constant)	144.718	1.382		104.737	<0.001
Hospital type (Reference: Tertiary hospital)					
Primary hospital	−28.718	44.194	−0.020	−0.650	0.516
Secondary hospital	5.407	15.678	0.011	0.345	0.730
(Constant)	127.303	7.435		17.122	<0.001
Technical title (Reference: Senior)					
No	−28.346	9.700	−0.134	−2.922	0.004
Junior	22.060	7.585	0.205	2.908	0.004
Intermediate	10.165	8.260	0.079	1.231	0.219
(Constant)	131.271	2.736		47.970	<0.001
Working years (Reference: >10)					
<3	3.837	5.735	0.022	0.669	0.504
3–6	18.547	3.479	0.205	5.331	<0.001
7–10	20.221	3.711	0.208	5.448	<0.001
(Constant)	172.755	6.010		28.745	<0.001
Average working hours since Shanghai is fully liberated (Reference: >12)					
<9	−48.224	6.593	−0.463	−7.315	<0.001
9–10	−31.722	6.481	−0.327	−4.895	<0.001
11–12	−17.548	6.336	−0.197	−2.770	0.006
(Constant)	129.716	4.347		29.841	<0.001
Present workplace (Reference: Others)					
Designated hospital	10.934	8.190	0.048	1.335	0.182
Nucleic acid sampling team	8.284	17.153	0.015	0.483	0.629
Non-designated hospital	16.992	4.591	0.135	3.701	<0.001
(Constant)	87.400	19.584		4.463	<0.001
Present living place (Reference: Others)					
Living alone	32.903	21.016	0.131	1.566	0.118

Living with family	58.469	19.635	0.331	2.978	0.003
Stayed at quarantine hotel	57.310	21.105	0.222	2.716	0.007
(Constant)	123.469	2.755		44.821	<0.001
History of chronic disease in family members (Reference: No)					
Yes	27.680	3.143	0.265	8.807	<0.001
(Constant)	72.690	8.181		8.885	<0.001
Values					
DASS-21 Depression	0.769	0.251	0.246	3.066	0.002
DASS-21 Anxiety	-0.828	0.287	-0.282	-2.886	0.004
DASS-21 Stress	0.374	0.284	0.121	1.315	0.189
IES-R	1.333	0.145	0.560	9.203	<0.001

B: unstandardized coefficients; β : standardized coefficients. $\beta=0.1$ small, $\beta=0.3$ medium, and $\beta=0.5$ large according to the guidelines by Cohen. DASS-21: Depression Anxiety Stress Scale-21; IES-R: Impact of Event Scale-Revised.