

Supplementary Materials

Table S1. Results of the two-level regression with time random effects for COVID-19-related anxiety of the healthcare professionals (n = 520; observations = 2368).

Analysis	Variables	Model					
		1		2		3	
		Unconditional cubic growth		Conditional cubic growth, 2-way cross-level interaction		Conditional cubic growth, 3-way cross-level interaction	
		<i>b</i>	SE	<i>b</i>	SE	<i>b</i>	SE
Fixed effects	Intercept	40.79***	0.20	39.42 ***	0.92	39.30***	0.93
Level I	Time	-1.05***	0.21	-1.45 ***	0.21	-1.037***	0.21
	(Time) ³	0.24	0.06	0.24 ***	0.06	0.25***	0.06
Level II	Female			0.28	0.30	0.27	0.30
	Age			0.00	0.02	0.00	0.01
	No-risk population			-0.29	0.44	-0.28	0.44
	No children			-0.44	0.36	-0.46	0.36
	Live alone			-0.26	0.48	-0.25	0.45
	Contact with risk population			1.91**	0.69	1.95**	0.69
	No relationship			0.02	0.45	0.02	0.45
	Infected during study			0.03	0.08	0.03	0.08
	Second-line HCP			-0.44	0.32	-0.26	0.41
	Workplace			0.00	0.09	0.00	0.09
	Sense of Coherence			-0.07***	0.02	-0.08***	0.03
	(Time) ³ *Sense of Coherence			0.01***	0.00	0.01	0.00
Cross-level	(Time) ³ *Second-line HCP					-0.02	0.04
	Second-line HCP*Sense of Coherence					0.03	0.04
	(Time) ³ *Sense of Coherence*Second-line HCP					0.00	0.00
Variance components		Estimate		Estimate		Estimate	
Within participants (Level 1)		12.80		12.85		12.81	
Between participants (Level 2)		8.41		7.74		7.76	
Slope variance (Time)		6.41		5.85		5.81	
Slope variance (Time) ³		0.77		0.70		0.70	

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$; HCP, healthcare professional; SE, standard error.

Table S2. Results of the multilevel analysis for perceived vulnerability to COVID-19 of the healthcare professionals (n = 520; observations = 2368).

Analysis	Variables	Model					
		1		2		3	
		Unconditional cubic growth		Conditional cubic growth, 2-way cross-level interaction		Conditional cubic growth, 3-way cross-level interaction	
		<i>b</i>	SE	<i>b</i>	SE	<i>b</i>	SE
Fixed effects	Intercept	54.62***	0.59	58.52***	2.88	58.55***	2.91
Level I	Time	0.21	0.51	0.20	0.51	0.20	0.51
	(Time) ²	-0.05	0.15	-0.05	0.15	-0.05	0.15
Level II	Female			1.51	0.95	1.52	0.95
	Age			-0.13*	0.05	-0.13*	0.05
	No-risk population			-3.02*	1.39	-3.03*	1.39
	No children			-1.94	1.11	-1.52	1.11
	Live alone			1.52	1.49	1.49	1.49
	Contact with risk population			-2.20	2.15	-2.25	2.15
	Relationship			-0.07	1.41	-0.04	1.41

	Infected during study	0.32	0.24	0.32	0.24
	Second-line HCP	1.14	0.98	1.13	1.26
	Workplace	-0.16	0.30	-0.16	0.30
	Sense of Coherence	-0.28**	0.06	-0.32***	0.08
Cross-level	(Time) ³ *Sense of Coherence	0.01**	0.00	0.02***	0.01
	(Time) ³ *Second-line HCP			0.00	0.09
	Second-line HCP*Sense of Coherence			0.09	0.12
	(Time) ³ *Sense of Coherence*Second-line HCP				
Variance components		Estimate	Estimate	Estimate	
Within participants (Level 1)		58.85	58.63	58.62	
Between participants (Level 2)		129.18	119.28	119.66	
Slope variance (Time)		53.80	54.34	54.46	
Slope variance (Time) ³		6.60	6.55	6.55	

* $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$; HCP, healthcare professional; SE, standard error; MarginalR2 0.72; 3-fach Interaktion $p = 0.097$.

Table S3. Results of the multilevel analysis for COVID-19–related depressiveness of the healthcare professionals (n = 520; observations = 2372).

Analysis	Variables	Model					
		1		2		3	
		Unconditional cubic growth		Conditional cubic growth, 2-way cross-level interaction		Conditional cubic growth, 3-way cross-level interaction	
		<i>b</i>	SE	<i>b</i>	SE	<i>b</i>	SE
Fixed effects	Intercept	5.50***	0.21	5.21***	0.93	5.44***	0.94
Level I	Time	-0.62***	0.19	-0.62***	0.19	-0.62***	0.19
	(Time) ³	0.16**	0.05	0.16**	0.05	0.12*	0.05
Level II	Female			1.05***	0.31	1.04***	0.31
	Age			-0.02	0.02	-0.02	0.02
	No-risk population			-1.30**	0.45	-1.30**	0.45
	No children			0.13	0.36	0.11	0.36
	Live alone			-0.05	0.48	-0.04	0.48
	Contact with risk population			-1.30	0.69	0.57	0.69
	Relationship			-0.21	0.46	-0.43	0.46
	Infected during study			0.21**	0.08	0.21**	0.08
	Second-line HCP			-0.10	0.32	-0.71	0.40
	Workplace			-0.04	0.10	-0.03	0.10
	Sense of Coherence			-0.19***	0.02	-0.19***	0.03
Cross-level	(Time) ² *Sense of Coherence			0.01***	0.00	0.01***	0.00
	(Time) ² *Second-line HCP					0.09**	0.04
	Second-line HCP*Sense of Coherence					0.02	0.04
	(Time) ² *Sense of Coherence*Second-line HCP					0.00	0.00
Variance components		Estimate	Estimate	Estimate	Estimate	Estimate	Estimate
Within participants (Level 1)		10.56	10.49	10.49			
Between participants (Level 2)		13.56	9.74	9.70			
Slope variance		3.65	3.82	3.79			
Slope variance (Time) ³		0.57	0.56	0.55			

*, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$; HCP, healthcare professional; SE, standard error; Conditional R2 = 0.591; 3-fach interaction $p = 0.956$.

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$contrasts
contrast      estimate      SE df t.ratio p.value
0 - 9.43      -0.459 0.0661 503 -6.947 <.0001
0 - -9.43      0.459 0.0661 503  6.947 <.0001
9.43 - -9.43   0.918 0.1322 503  6.947 <.0001

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Results are averaged over the levels of: Liner, Gender, Children, Household
Degrees-of-freedom method: kenward-roger
P value adjustment: tukey method for comparing a family of 3 estimates

Table S4. Results of the multilevel analysis for COVID-19-related psychological trauma symptomatology of the healthcare professionals (n = 520; observations = 2371).

Analysis	Variables	Model					
		1		2		3	
		Unconditional cubic growth		Conditional cubic growth, 2-way cross-level interaction		Conditional cubic growth, 3-way cross-level interaction	
		<i>b</i>	SE	<i>b</i>	SE	<i>b</i>	SE
Fixed effects	Intercept	8.84***	0.22	8.26***	0.97	8.30***	0.98
Level I	Time	-1.49***	0.21	-1.48***	0.21	-1.48***	0.21
	(Time) ²	0.31***	0.06	0.31***	0.06	0.30***	0.06
Level II	Female			0.63*	0.32	0.63	0.32
	Age			-0.04*	0.02	-0.04*	0.02
	No-risk population			-0.83	0.47	-0.82	0.47
	No children			-0.40	0.37	-0.42	0.38
	Live alone			0.36	0.50	0.37	0.50
	Contact with risk population			0.94	0.72	0.96	0.72
	Relationship			-0.64	0.48	-0.65	0.48
	Infected during study			0.19*	0.08	0.19*	0.08
	Second-line HCP			-0.20	0.33	-0.36	0.43
	Workplace			-0.01	0.10	-0.01	0.10
	Sense of Coherence			-0.19***	0.02	-0.20***	0.03
Cross-level	(Time) ³ *Sense of Coherence			0.01***	0.00	0.01***	0.00
	(Time) ³ *Second-line HCP					0.02	0.04
	Second-line HCP*Sense of Coherence					0.03	0.04
	(Time) ³ *Sense of Coherence					0.00	0.00
	Coherence*Second-line HCP						
Variance components		Estimate		Estimate		Estimate	
Within participants (Level 1)		13.47		13.45		13.44	
Between participants (Level 2)		12.61		9.66		9.70	
Slope variance (Time)		5.45		5.50		5.54	
Slope Variance (Time) ³		0.70		0.68		0.68	

*, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$; HCP, healthcare professional; SE, standard error; Conditional R2: 0.543; 3-fach Interaktion $p = 0.757$.

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$contrasts
contrast      estimate      SE df t.ratio p.value
0 - 9.43      -0.466 0.0673 503 -6.929 <.0001
0 - -9.43      0.466 0.0673 503  6.929 <.0001
9.43 - -9.43   0.933 0.1346 503  6.929 <.0001

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Results are averaged over the levels of: Liner, Gender, Children, Household
Degrees-of-freedom method: kenward-roger
P value adjustment: tukey method for comparing a family of 3 estimates