

**Supplementary Table 9.** Predictors for level of sleep disturbance verified with multivariate linear regression with 5,000 bootstrapping samples among second-line healthcare workers in the third wave

Predictors	$\beta$	95% CI	p
Age	-0.03	-0.06-0.01	0.111 <sup>a</sup>
Depression	1.10	0.41-1.91	0.005*
PTSD	0.21	-0.18-0.59	0.292 <sup>a</sup>
Social anxiety	0.08	-0.05-0.20	0.219 <sup>a</sup>
Social desirability	-0.11	-0.28-0.05	0.203 <sup>a</sup>
Well-being	-0.02	-0.06-0.02	0.321 <sup>a</sup>
PCS	-0.06	-0.13--0.002	0.049*
MCS	0.004	-0.05-0.06	0.879 <sup>a</sup>
Vaccine mistrust	-0.01	-0.12-0.10	0.855 <sup>a</sup>
Natural immunity	-0.23	-0.35--0.12	<0.001*
Sex			
Male	Ref	-	-
Female	0.44	-0.42-1.21	0.228 <sup>a</sup>
Regular diets			
No	Ref	-	-
Yes	0.27	-0.42-1.21	0.08 <sup>a</sup>
Psychological trauma			
No	Ref	-	-
Yes	0.33	-0.43-1.13	0.408 <sup>a</sup>

<sup>a</sup>excluded from bootstrapping methods; \*statistic significant (p<0.05). CI, confidence interval; PTSD, posttraumatic stress disorder; PCS, physical component summary of Short Form-12 Items Health Survey; MCS, mental component summary of Short Form-12 Items Health Survey