

## Supplementary Materials

**Table S1.** Items measuring the psychological pandemic impact.

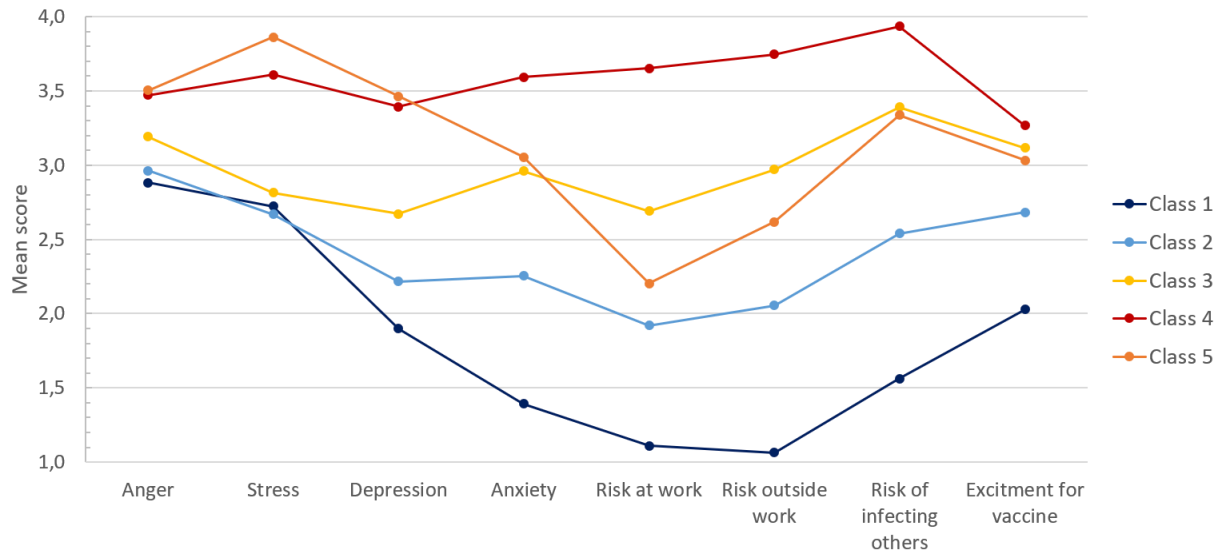
Item	Question	Response scale
<b>Feelings related to the pandemic</b>		
Anger	I get upset when I hear contradictory information about COVID-19	
Anxiety	I feel anxious when I see the number of COVID-19 cases climbing	
Distress	I feel stressed when I am unable to plan my life due to COVID-19	Not at all / A little / somewhat / very much
Depression	I feel depressed about the uncertainty of how this pandemic will evolve	
Excitement	I find the prospect of a COVID-19 vaccine exciting	
<b>Perceived risk</b>		
Being infected at work	Concern of contracting COVID-19 at work	
Being infected outside working place	Concern of contracting COVID-19 outside working place	Not at all / A little / somewhat / very much
Infecting others	Concern of infecting family or friends with COVID-19	

**Table S2.** Sample's characteristics

	N=1011
<b>Socio-demographic characteristics</b>	
Female, n (%)	558 (55.2)
Age, mean $\pm$ SD	46.9 $\pm$ 11.5
University degree, n (%)	369 (36.5)
Employed, n (%)	721 (71.3)
Income, n (%)	
Lower than average	316 (31.3)
On average	591 (58.5)
Higher than average	104 (10.3)
Number of family members, median [IQR]	3 [2 – 4]
Any old family member (>70 years), n (%)	278 (27.5)
<b>Use of information sources</b>	
TV, n (%)	727 (71.9)
Press, n (%)	438 (43.3)
Social media, n (%)	191 (18.9)
Institutional websites, n (%)	396 (39.2)
<b>COVID-19 related characteristics</b>	
Presence of comorbidities, n (%)	287 (28.4)
COVID-19 diagnosis, n (%)	93 (9.2)
Income reduction due to COVID-19 pandemic, n (%)	295 (29.2)
Trust in COVID-19 official information, n (%)	495 (49.0)
<b>Vaccine related characteristics</b>	
Past vaccination refusal, n (%)	158 (15.6)
Hesitancy towards COVID-19 vaccine, n (%)	314 (31.1)

**Table S3.** Latent class analyses: model fit indices and class size.

	<b>2 classes</b>	<b>3 classes</b>	<b>4 classes</b>	<b>5 classes</b>
Log-Likelihood	-9064.9	-8754.6	-8559.3	-8462.0
npar	49	74	99	124
G <sup>2</sup>	5177	4557	4166	3971
p-value	-	<0.001	<0.001	<0.001
BIC	18469	18021	17803	17782
Entropy (%)	0.813	0.785	0.766	0.757
Class 1 n (%)	376 (37.2)	247 (24.4)	81 (8.0)	69 (6.8)
Class 2 n (%)	635 (62.8)	538 (53.2)	221 (21.8)	225 (22.3)
Class 3 n (%)		226 (22.4)	496 (49.1)	382 (37.8)
Class 4 n (%)			213 (21.1)	180 (17.8)
Class 5 n (%)				155 (15.3)
Notes: npar: number of estimated parameters; G <sup>2</sup> : Likelihood ratio/deviance statistic; p-value comparison between k classes and k-1 classes model, based on G <sup>2</sup> difference; BIC: Bayesian Information Criterion.				



**Figure S1.** 5-latent-class model. Mean score of the eight indicators measuring psychological impact of the pandemic for each latent class.

**Table S4.** Standardized direct, indirect and total effects on vaccine hesitancy.

	Direct effect		Indirect effect		Total effect	
	Std b	p-value	$\beta$	p-value	$\beta$	p-value
Female	0.079	0.048	-0.026	0.002	0.053	0.187
Age 18-34y	-	-	0.007	0.645	0.007	0.645
Age 35-44y	0.149	0.003	0.020	0.093	0.169	0.001
Age 45-54y	-	-	0.047	0.007	0.047	0.007
University degree	-0.111	0.007	-	-	-0.111	0.007
Higher than average income	-	-	-0.011	0.108	-0.011	0.108
Lower than average income	-	-	0.021	0.154	0.021	0.154
Presence of comorbidities	-0.155	<0.001	-0.013	0.414	-0.168	<0.001
Past vaccination refusal	0.344	<0.001	0.042	0.002	0.386	<0.001
Social media use	0.165	0.002	-	-	0.165	0.002
Institutional websites use	-0.118	0.021	-0.018	0.032	-0.136	0.008
Trust in COVID-19 information	-0.264	<0.001	-0.026	0.003	-0.289	<0.001
Higher psychological impact of the pandemic	-0.188	<0.001	-	-	-0.188	<0.001