

Supplementary Data

Methods

Reliability of the FCV-19 Scale was examined by classical test theory (CTT) method, measuring items correlation (Pearson's r and corrected item-total correlation) and internal consistency (Cronbach alpha).

Results

Interpretation values for FCV-19S construct properties were set as Pearson correlation coefficient for inter-item consistency > 0.3 ; Cronbach alpha for internal consistency > 0.7 and corrected item-total correlation coefficient with a value of no less than 0.5 (Annunziata et al., 2011; Ahorsu et al., 2022). In cancer group, the total internal consistency of the COVID-19 fear questionnaire was good (Cronbach $\alpha = 0.86$) and all items indicated proper internal consistency, corrected item-total correlations of items (range between 0.65–0.84 except for Q5). All seven items (except Q5) were significantly correlated ($p < 0.001$) on a moderate level ($r = 0.408–801$), expressing acceptable instrument validity and enabling factor analysis (Kaiser–Meyer–Olkin measure = 0.763; $p < 0.001$) (Table 1S, 2S) (Irwing et al., 2018; Schober et al., 2018). In control group, the total internal consistency of the COVID-19 fear questionnaire was excellent (Cronbach $\alpha = 0.92$), all items indicated proper internal consistency, corrected item-total correlations of items range between 0.752–0.901 except for Q5. All seven items (except Q5) were significantly correlated ($p < 0.001$) on a moderate level ($r = 0.546–864$), expressing acceptable instrument validity and enabling factor analysis (Kaiser–Meyer–Olkin measure = 0.784; $p < 0.01$) (Table 2S) (Irwing et al., 2018; Schober et al., 2018 Table 3S, 4S).

Variable	N	%	FoC-19 score (SD)	*p-Value
Total	93	100	24,07 (3,94)	
Age group				
30-50	35	37,63	23,42 (4,34)	=0,229
50-80	58	62,36	24,36 (3,77)	
Gender				
Female	48	62,36	21,27 (2,59)	<0,01
Male	45	51,61	26,97 (2,84)	
Education level				
Low	35	37,63	24,28 (3,46)	=0,590
High	48	62,36	23,94 (4,22)	
Employment				
Yes	59	63,44	24,66 (4,14)	=0,21
No	34	36,55	22,82 (3,23)	

Table 1S. Known-group validity was assessed by the appropriate Mann–Whitney U non-parametric test (significant if $p < 0.05$) in cancer group.

Pearson's correlation of FoC-19 items								Corrected-item total correlation	Cronbach alpha of item deleted
Items	Q1	Q2	Q3	Q4	Q5	Q6	Q7		
Q1 I am most afraid of Corona	1							0,754	0,753
Q2 It makes me uncomfortable to think about Corona	0,788	1						0,772	0,749
Q3 It makes me uncomfortable to think about Corona	0,648	0,688	1					0,849	0,737
Q4 I am afraid of losing my life because of Corona	0,541	0,486	0,575	1				0,723	0,755
Q5 When I watch news and stories about Corona on social media, I become nervous or anxious.	0,068	0,264	0,276	0,333	1			0,393	0,778
Q6 I cannot sleep because I'm worrying about getting Corona.	0,629	0,603	0,801	0,579	0,282	1		0,796	0,753
Q7 My heart races or palpitates when I think about getting Corona	0,532	0,408	0,608	0,532	0,200	0,426	1	0,653	0,764

Table 2S. Correlation between seven items (Pearson's correlation of FoC-19 items in cancer group)

Variable	N	%	FoC-19 score (SD)	*p-Value
Total	102	100	21,58 (5,26)	
Age group				
30-50	59	57,84	21,44 (2,19)	=0,7413
50-80	43	42,15	21,59 (5,52)	
Gender				
Female	57	55,88	21,50 (5,23)	=0,942
Male	45	44,11	21,55 (5,49)	
Education level				
Low	35	34,31	22,91 (5,34)	=0,044
High	57	55,88	20,70 (5,19)	
Employment				
Yes	52	50,98	21,17 (5,26)	=0,4034
No	50	49,01	22,08 (5,36)	

Table 3S. Known-group validity was assessed by the appropriate Mann–Whitney U non-parametric test (significant if $p < 0.05$) in control group.

Pearson's correlation of FoC-19 items								Corrected-item total correlation	Cronbach alpha of item deleted
Items	Q1	Q2	Q3	Q4	Q5	Q6	Q7		
Q1 I am most afraid of Corona	1							0,826	0,928
Q2 It makes me uncomfortable to think about Corona	0,864	1						0,833	0,927
Q3 It makes me uncomfortable to think about Corona	0,563	0,634	1					0,763	0,933
Q4 I am afraid of losing my life because of Corona	0,642	0,567	0,647	1				0,773	0,932
Q5 When I watch news and stories about Corona on social media, I become nervous or anxious.	0,610	0,715	0,719	0,333	1			0,753	0,935
Q6 I cannot sleep because I'm worrying about getting Corona.	0,845	0,816	0,720	0,794	0,705	1		0,901	0,920
Q7 My heart races or palpitates when I think about getting Corona	0,731	0,652	0,711	0,742	0,546	0,696	1	0,783	0,932

Table 4S. Correlation between seven items (Pearson's correlation of FoC-19 items in control group)

