|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Table 2. Analyses from Rasch model in FVOC scale | | | | | | | | |
|  | Question | Infit MnSq | Outfit MnSq | Difficulty | Discrimination | DIF contrast across gendercd | DIF contrast across agece |  |
| S1 | I am most afraid of coronavirus-19. | 1.11 | 1.17 | -1.04 | 0.83 | -0.06 | 0.32 |  |
|  | It makes me uncomfortable to think about coronavirus-19. | 0.94 | 0.98 | -0.86 | 1.03 | 0.06 | 0.10 |  |
|  | My hands become clammy when I think about coronavirus-19. | 0.87 | 0.72 | 0.96 | 1.13 | -0.12 | -0.11 |  |
|  | I am afraid of losing my life because of coronavirus-19. | 1.36 | 1.25 | -0.06 | 0.87 | -0.25 | 0.43 |  |
|  | When watching news and stories about coronavirus-19 on social media, I become nervous or anxious. | 1.13 | 1.12 | -0.64 | 0.98 | 0.18 | -0.49 |  |
|  | I cannot sleep because I’m worrying about getting coronavirus-19. | 1.07 | 0.92 | 0.78 | 1.09 | -0.02 | -0.19 |  |
|  | My heart races or palpitates when I think about getting coronavirus-19. | 1.00 | 0.80 | 0.87 | 1.15 | 0.22 | -0.36 |  |
| S2 | I am most afraid of coronavirus-19. | 1.11 | 1.12 | -1.11 | 0.85 | -0.04 | 0.32 |  |
|  | It makes me uncomfortable to think about coronavirus-19. | 0.93 | 0.91 | -0.95 | 1.12 | 0.05 | 0.00 |  |
|  | My hands become clammy when I think about coronavirus-19. | 0.84 | 0.69 | 1.11 | 1.15 | 0.00 | -0.08 |  |
|  | I am afraid of losing my life because of coronavirus-19. | 1.30 | 1.29 | 0.10 | 0.82 | -0.19 | 0.42 |  |
|  | When watching news and stories about coronavirus-19 on social media, I become nervous or anxious. | 1.16 | 1.19 | -0.81 | 0.92 | 0.10 | -0.43 |  |
|  | I cannot sleep because I’m worrying about getting coronavirus-19. | 0.97 | 0.87 | 0.82 | 1.09 | 0.00 | -0.08 |  |
|  | My heart races or palpitates when I think about getting coronavirus-19. | 1.06 | 0.89 | 0.85 | 1.14 | 0.04 | -0.24 |  |

c DIF contrast > 0.5 indicates substantial DIF.

d DIF contrast across gender=Difficulty for Males-Difficulty for females.

e DIF contrast across age= Difficulty for participants with younger age (i.e., ≤ years)-Difficulty for participants with older ages (i.e., ≥ )

MnSq=mean square error; DIF=differential item functioning.

Response disordering tests.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Average measure | Step measure | Infit MnSq | Outfit MnSq |
| S1 | 1 | -2.91 | - | 0.85 | 0.94 |
|  | 2 | -1.67 | -2.09 | 1.09 | 0.82 |
|  | 3 | -0.93 | -0.15 | 1.00 | 0.82 |
|  | 4 | -0.52 | -0.49 | 1.04 | 1.00 |
|  | 5 | -0.09 | -0.84 | 1.20 | 1.34 |
|  | 6 | 0.59 | 1.29 | 1.21 | 1.29 |
|  | 7 | 1.45 | 2.29 | 1.87 | 1.51 |
|  |  |  |  |  |  |
| S2 | 1 | -2.94 | - | 0.82 | 0.91 |
|  | 2 | -1.69 | -2.24 | 1.08 | 0.83 |
|  | 3 | -0.95 | -0.50 | 1.00 | 0.84 |
|  | 4 | -0.44 | -0.28 | 1.05 | 1.02 |
|  | 5 | 0.00 | -0.97 | 1.24 | 1.36 |
|  | 6 | 0.74 | 1.36 | 1.19 | 1.24 |
|  | 7 | 1.81 | 2.63 | 1.25 | 1.13 |