

Appendix F, Table 7: Differential Item Functioning of Sleep Disturbance Domain, OA-K cross-sectional sample

| Items | Chi ² Values | | McFadden Pseudo R ² Change Value | | DIF Interpret. |
|---|-------------------------|-------------------------|---|-------------------------|----------------|
| | Uniform Model 1 v 2 | Non-uniform Model 2 v 3 | Uniform Model 1 v 2 | Non-uniform Model 2 v 3 | |
| Sex (male vs. female) | | | | | |
| In the past 7 days... | | | | | |
| My sleep quality was... | 0.188 | 0.683 | 0.001 | 0.000 | No |
| I got enough sleep. | 0.752 | 0.288 | 0.000 | 0.001 | No |
| I had trouble sleeping. | 0.243 | 0.361 | 0.001 | 0.001 | No |
| My sleep was restful. | 0.171 | 0.014 | 0.001 | 0.004 | No |
| My sleep was restless. | 0.509 | 0.519 | 0.000 | 0.000 | No |
| It was easy for me to fall asleep. | 0.045 | 0.028 | 0.002 | 0.003 | No |
| Age (≤55 vs. >55) | | | | | |
| In the past 7 days... | | | | | |
| My sleep quality was... | 0.674 | 0.676 | 0.000 | 0.000 | No |
| I got enough sleep. | 0.197 | 0.223 | 0.001 | 0.001 | No |
| I had trouble sleeping. | 0.480 | 0.727 | 0.000 | 0.000 | No |
| My sleep was restful. | 0.460 | 0.001 | 0.000 | 0.006 | No |
| My sleep was restless. | 0.625 | 0.227 | 0.000 | 0.001 | No |
| It was easy for me to fall asleep. | 0.008 | 0.103 | 0.004 | 0.002 | No |
| Education (completed college or not) | | | | | |
| In the past 7 days... | | | | | |
| My sleep quality was... | 0.199 | 0.263 | 0.001 | 0.001 | No |
| I got enough sleep. | 0.304 | 0.055 | 0.001 | 0.002 | No |
| I had trouble sleeping. | 0.055 | 0.180 | 0.002 | 0.001 | No |
| My sleep was restful. | 0.325 | 0.280 | 0.001 | 0.001 | No |
| My sleep was restless. | 0.893 | 0.083 | 0.000 | 0.002 | No |
| It was easy for me to fall asleep. | 0.744 | 0.918 | 0.000 | 0.000 | No |

Abbreviation: DIF is Differential Item Functioning, Interpret. is Interpretation. Models: Model 1 = ability explanatory term only; Model 2 = ability + group explanatory terms; Model 3 = ability + group + ability-by-group interaction explanatory terms.