Supplementary Table 4. Graded response model parameter estimates

SNQ item	a (SE)	b_1 (SE)	b_2 (SE)	b_3 (SE)	b_4 (SE)
1. Tired/fatigue	4.07 (0.30)	-1.43 (0.08)	-0.60 (0.05)	0.66 (0.07)	1.69 (0.12)
2. Sleepy/drowsy	24.49 (12.35)	-1.28 (0.07)	-0.51 (0.07)	0.63 (0.06)	1.58 (0.10)
3. Naps/dozing	1.00 (0.10)	-1.62 (0.17)	-0.29 (0.10)	1.63 (0.19)	3.51 (0.37)
4. Adequate duration	1.08 (0.10)	-2.63 (0.25)	-0.55 (0.10)	1.12 (0.14)	2.89 (0.29)

SNQ, Sleep Needs Questionnaire; a, item discrimination parameter (slope of the IPF); b_1–b_4, item difficulty parameters; SE, standard error; IPF, item probability function.