**S3 Table. Item characteristics of the RIKNO 2.0 and MSKQ.**

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| --- | --- | --- | --- | --- | --- |
| Instrument | Country | N | Mean item difficulty (SD, range) | Mean rit(i)(range) | Cronbach alpha |
| RIKNO 2.0 | Total | 986 | 0.42 (0.46, 0.11-0.74) | 0.23 (0.00-0.38) | 0.66 |
| Germany | 184 | 0.53 (0.45, 0.12-0.89) | 0.21 (0.01-0.38) | 0.62 |
| Italy | 84 | 0.38 (0.43, 0.04-0.89) | 0.10 (-0.31-0.31) | 0.41 |
| Serbia | 105 | 0.56 (0.43, 0.04-0.96) | 0.27 (-0.35-0.49) | 0.72 |
| Spain | 279 | 0.36 (0.44, 0.08-0.81) | 0.18 (-0.07-0.33) | 0.57 |
| Netherlands | 133 | 0.44 (0.44, 0.05-0.83) | 0.09 (-0.15-0.27) | 0.36 |
| Turkey | 201 | 0.32 (0.42, 0.03-0.68) | 0.11 (-0.18-0.38) | 0.46 |
| MSKQ | Total | 294 | 0.78 (0.34, 0.27-100) | 0.21 (0.01-0.30) | 0.63 |
| Germany | 114 | 0.80 (0.33, 0.33-100) | 0.18 (0.00-0.35) | 0.58 |
| Italy | 52 | 0.68 (0.33,0.29-100) | 0.18 (-0.13-0.46) | 0.56 |
| Netherlands | 128 | 0.77 (0.34, 0.19-100) | 0.25 (-0.03-0.43) | 0.69 |

MSKQ, Multiple Sclerosis Knowledge Questionnaire; RIKNO, Risk knowledge in multiple sclerosis; SD, standard deviation.

Item characteristics of RIKNO 2.0 and MSKQ were calculated, including item difficulty (norms: 0.2-0.8), standard deviation (norms: >0.2), corrected item total correlations (rit(i) norms: 0.3-0.5), Cronbach’s alpha (norms: >0.7, expected lower values due to multidimensional structure of the questionnaire), and normal distribution criteria (Kolmogorov-Smirnov-test, α=0.05, two-tailed).

All item difficulties and SDs of the RIKNO 2.0 and the MSKQ met expected criteria for the whole sample and per country. Item total correlations and Cronbach’s alpha were slightly below the expected range. Missing values for RIKNO 2.0 ranged between 0-8%. Mean of “don’t know” answers in MSKQ were 6% per country. The normal distribution criterion was not met in any country.