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## Appendix C

**Table B1**

*COSMIN recommended appraisal criteria for questionnaire properties*

Domain	Definition	Appraisal criteria
<b>Reliability</b>		
Internal	Interrelatedness among scale items	P: Cronbach's alpha(s) $\geq .7$ I: No Cronbach's alphas, or dimensions undetermined N: Cronbach's alpha(s) $< .7$
Test-retest	The proportion of the variance in measurements which is due to 'true' differences between patients	P: Intra-class correlation/weighted Kappa $\geq .7$ , or, Pearson's $r \geq .8$ I: Neither of the above analyses reported N: Intra-class correlation/weighted Kappa $< .7$ , or Pearson's $r < .8$
<b>Validity</b>		
Criterion	Whether scores on an instrument adequately reflect a 'gold standard'. The only real gold standard comparator instrument is another version of the same measure. Other comparators are often wrongly considered as gold standard	P: Criterion variable is a 'gold standard' assessment of the construct. Correlation $\geq .7$ I: No information. No arguments that criterion variable is 'gold standard' N: Correlation with gold standard $< .7$
Content	How well an instrument reflects the construct to be measured	P: Items relevant to construct and target population, and questionnaire is comprehensive I: Not enough information N: Some items irrelevant to construct, or for target population, or questionnaire is not comprehensive
<i>Construct Validity</i> Hypothesis testing	How consistent instrument scores are with hypotheses. For example, about relationships with other instruments (convergent/divergent validity) or differences between relevant groups (known-groups validity).	P: Correlations with associated measures $\geq .5$ , or at least 75% results are in accordance with hypotheses and correlations with related constructs are higher than with unrelated constructs I: No information, or correlations solely with unrelated constructs presented N: Correlations with associated measures $< .5$ , or less than 75% of hypotheses accepted

(continued)

Domain	Definition	Appraisal criteria
Cross-cultural validity	Whether items on a translated or culturally adapted instrument adequately reflect of the performance of items on the original instrument.	P: No difference in factor structure or important differential item functioning (DIF) between versions I: Factor analysis not applied and DIF not assessed N: Differences in factor structure or DIF between languages
Structural validity	Whether scores on an instrument adequately reflect the dimensionality of the construct to be measured.	P: Factors explain at least 50% of the variance I: Explained variance not mentioned, or factor analysis not completed. N: Factors explain < 50% variance
Responsiveness	The ability of an instrument to detect change over time in the construct to be measured.	P: Correlation with changes on instruments measuring the same construct $\geq 0.5$ OR at least 75% of results in accordance with hypotheses OR area under the curve $\geq 0.7$ and correlations with changes in related constructs are higher than unrelated constructs I: Appropriate analyses not conducted, or solely correlations determined with unrelated constructs. N: Responsiveness analyses conducted but criteria not met

*Note.* Information in table obtained from Terwee et al. (2011) and Mokkink et al. (2012). P = Positive evidence, I = indeterminate evidence, N = negative evidence