PSYCHOMETRIC TESTING OF SPIDER: DATA CAPTURE TOOL FOR SYSTEMATIC LITERATURE REVIEWS

ABSTRACT (151 WORDS)

OBJECTIVE: Systematic literature reviews contributes to evidence-based occupational therapy, yet no data capture tool currently exists to validly and reliably appraise the characteristics and quality of primary studies.

METHOD: We determined the psychometrics of SPIDER (Systematic Process for Investigating and Describing Evidence-based Research), and piloted it with 201 studies included in a systematic literature review.

RESULTS: Content validity showed item relevance (index = 0.60) with 73% agreement between two experts. For the quality construct, seven of nine quality indicators were positively and significantly (p<0.05) correlated with the overall quality score. The quality scores were significantly (p<0.05) and positively correlated with two objective measures, inferring criterion validity. Intra-rater reliability was moderate to perfect (*kappa* = 0.4-1.0) for experienced reviewers. Crosstab analyses showed less variation in experienced reviewers' inter-rater reliability.

CONCLUSION: SPIDER provides plausible opportunities for occupational therapy researchers and graduate students to appraise the characteristics and quality of primary studies, but requires testing across other settings.

Key words: validity and reliability; data capture tool; evidence based reviews; measurement