S4 File. Johns Hopkins Nursing Evidence-Based Practice Appraisal Tool

Johns Hopkins Nursing Evidence-Based Practice

Appendix D

Evidence Level and Quality Guide

Evidence Levels	Quality Ratings
Level I	QuaNtitative Studies
Experimental study, randomized controlled trial (RCT) Explanatory mixed method design that includes only a level I quaNtitative study Systematic review of RCTs, with or without meta- analysis	A <u>High quality</u> : Consistent, generalizable results; sufficient sample size for the study design; adequate control; definitive conclusions; consistent recommendations based on comprehensive literature review that includes thorough reference to scientific evidence.
	B <u>Good quality</u> : Reasonably consistent results; sufficient sample size for the study design; some control, fairly definitive conclusions; reasonably consistent recommendations based on fairly comprehensive literature review that includes some reference to scientific evidence.
	C Low quality or major flaws: Little evidence with inconsistent results; insufficient sample size for the study design; conclusions cannot be drawn.
Level II	QuaLitative Studies
Quasi-experimental study Explanatory mixed method design that includes	No commonly agreed-on principles exist for judging the quality of quaLitative studies. It is a subjective process based on the extent to which study data contributes to synthesis and how much information is known about the researchers' efforts to meet the appraisal criteria. For meta-synthesis, there is preliminary agreement that quality assessments of individual studies should be made before synthesis to screen out poor-quality studies ¹ .
only a level II quaNtitative study	
Systematic review of a combination of RCTs and quasi-experimental studies, or quasi- experimental studies only, with or without meta- analysis	
	A/B High/Good quality is used for single studies and meta-syntheses) ² .
	The report discusses efforts to enhance or evaluate the quality of the data and the overall inquiry in sufficient detail; and it describes the specific techniques used to enhance the quality of the inquiry. Evidence of some or all of the following is found in the report:
Level III Nonexperimental study	 Transparency: Describes how information was documented to justify decisions, how data were reviewed by others, and how themes and categories were formulated.
Systematic review of a combination of RCTs, quasi-experimental and nonexperimental studies,	 Diligence: Reads and rereads data to check interpretations; seeks opportunity to find multiple sources to corroborate evidence.
or nonexperimental studies only, with or without	 Verification: The process of checking, confirming, and ensuring methodologic coherence.
meta-analysis	 Self-reflection and scrutiny: Being continuously aware of how a researcher's experiences, background, or prejudices might shape and bias analysis and interpretations.
Exploratory, convergent, or multiphasic mixed methods studies	 Participant-driven inquiry: Participants shape the scope and breadth of questions; analysis and interpretation give voice to those who participated.
Explanatory mixed method design that includes_	Insightful interpretation: Data and knowledge are linked in meaningful ways to relevant literature.
only a level III quaNtitative study QuaLitative study Meta-synthesis	C Low guality studies contribute little to the overall review of findings and have few, if any, of the feature listed for high/good quality.

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