

LEGEND: Evidence Appraisal of a Single Study Diagnosis / Assessment Psychometric Study

	Project/Topic of your Clinical Question:							
Reviewer: Article Title: Year:		Today's Date:	Final Evidence Level:					
		First Author						
Year:		First Author:	Journal:					
Do	-	n/purpose/objectives and inclusion/exclusion crite	ria assist in answering your clinical question? Yes No Unknown					
	• Inclusion	on Criteria:						
	• Exclusi	on Criteria:						
If y	ou are uncertai CCHMC Evidence	bolded questions, consider the bulleted questions to hele of your skills in evidence evaluation, please consult a lose Experts: http://groups/ce/NewEBC/EBDMHelp.htm an be found in the LEGEND Glossary: http://groups/ce/NewEBC/EBDMHelp.htm	ocal evidence expert for assistance:					
VA	ALIDITY: AF	RE THE RESULTS OF THE PSYCHOMETRIC STUDY VALID OR	CREDIBLE?					
1.		ly purpose focused on examining one or more mea e., validity, reliability)? s:	asurement Yes No Unknown					
2.	Was the inst Comment	rument clearly described? s:	Yes No Unknown					
3.	Was the prot	cocol for administration and scoring standardized?	Yes No Unknown					
4.	Were the ob Comment	servers/raters appropriately trained or certified?	Yes No Unknown					
5.	Were the da	ta collected on a representative sample?	Yes No Unknown					



Comments:

LEGEND: Evidence Appraisal of a Single Study Diagnosis / Assessment Psychometric Study

Psychometric Study 6. Was the sample size adequate? Yes No Unknown Do authors discuss whether the sample size is adequate? Comments: Yes No Unknown 7. Did the instrument make intrinsic sense – face validity (expert opinion/consensus)? Comments: Yes No Unknown 8. Did the instrument sample the content/domain adequately? Comments: Yes No Unknown 9. Was there evidence of the test's construct validity (factor analysis)? Did the test discriminate between two groups (known-groups method)? • Did the test values agree with values of a similar test or gold standard (concurrent/convergent validity) or with a future outcome (predictive validity)? If yes, then: What was the strength of the correlation? What were the confidence limits, if given? Comments: Yes No Unknown 10. Was there freedom from conflict of interest? Sponsor/Funding Agency or Investigators Comments: **RELIABILITY:** ARE THE VALID STUDY RESULTS IMPORTANT? ARE THE RESULTS OBTAINED WITH THESE MEASURES REPLICABLE? (TESTS, MEASURES, SCALES, INSTRUMENTS, ETC.) 11. What was the internal consistency (i.e., Cronbach's alpha)? (Relevant where scales have multiple items that sum up to a total score) Comments: 12. Were appropriate statistical measures used to assess agreement between two or Yes No Unknown more occasions using the same observer (i.e., intra-rater reliability)?



LEGEND: Evidence Appraisal of a Single Study Diagnosis / Assessment Psychometric Study

13. Were appropriate statistical measures used to assess agreement between two or more observers (i.e., inter-rater reliability)? Comments:	Yes No Unknown
 14. Were appropriate statistical measures used to assess test-retest reliability (i.e., stability coefficient)? • Was an appropriate test-retest interval used? Comments: 	Yes No Unknown
15. Did the instrument capture important change (e.g., clinical significance)? Comments:	Yes No Unknown
16. Was there evidence of floor or ceiling effects? Comments:	Yes No Unknown
APPLICABILITY: CAN I APPLY THESE VALID, IMPORTANT STUDY RESULTS TO TREATING MY PATIN	ENTS?
 17. Can the results be applied to my population of interest? Is use of the instrument feasible in my care setting? Is the setting of the study applicable to my population of interest? Do the patient outcomes apply to my population or question of interest? Are the likely benefits worth the potential harm and costs? Were the patients in this study similar to my population of interest? Comments: 	Yes No Unknown
18. Are my patient's and family's values and preferences satisfied by the use of the diagnostic test? Comments:	Yes No Unknown
diagnostic test?	

Copyright © 2006-2012 Cincinnati Children's Hospital Medical Center; all rights reserved. April 9, 2012



QUALITY LEVEL / EVIDENCE LEVEL

- Consider each "No" answer and the degree to which this limitation is a threat to the validity of the results, then check the appropriate box to assign the level of quality for this study/article.
- Consider an "Unknown" answer to one or more questions as a similar limitation to answering "No," if the information is not
 available in the article.

THE EVIDENCE LEVEL IS:	Good Quality Psychometric Study	[2a]
	Lesser Quality Psychometric Study	[2b]
	Not Valid, Reliable, or Applicable	

Table of Evidence Levels														
	TYPE OF STUDY / STUDY DESIGN													
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta-Analysis	ככד⁺	Psychometric Study	Cohort – Prospective	Cohort – Retrospective	Cross – Sectional	Descriptive Study Epidemiology Case Series	Mixed Methods Study	Decision Analysis Economic Analysis Computer Simulation	Guidelines	Case Reports N-of-1 Study	Bench Study	Published Expert Opinion	Local Consensus Published Abstracts
Diagnosis / Assessment	1a 1b	2a 2b	2a 2b	3a 3b	4a 4b	4a 4b	4a 4b	2/3/4 a/b	5a 5b	5a 5b	5a 5b	5a 5b	5a 5b	5

^{*} CCT = Controlled Clinical Trial

Development for this appraisal form is based on:

- 1. Guyatt, G.; Rennie, D.; Evidence-Based Medicine Working Group.; and American Medical Association.: Users' guides to the medical literature: a manual for evidence-based clinical practice. "JAMA & archives journals." Chicago, IL, 2002
- 2. Melnyk, B. M. and E. Fineout-Overholt (2005). Evidence-based practice in nursing & healthcare: a guide to best practice. Philadelphia, Lippincott Williams & Wilkins.
- 3. Phillips, et al: Oxford Centre for Evidence-based Medicine Levels of Evidence, 2001. Last accessed Nov 14, 2007 from http://www.cebm.net/index.aspx?o=1025.
- 4. Fineout-Overholt and Johnston: Teaching EBP: asking searchable, answerable clinical questions. Worldviews Evid Based Nurs, 2(3): 157-60, 2005.
- 5. Jerosch-Herold, C., An evidence-based approach to choosing outcome measures: a checklist for the critical appraisal of validity, reliability and responsiveness studies. British Journal of Occupational Therapy, 2005. 68(8): p. 347-53.