

LEGEND: Evidence Appraisal of a Single Study Diagnosis / Assessment Cross–Sectional Study

Project/Topic of your Clinical Question:						
Reviewer:		Final Evidence Level:				
Article Title:						
Year:	First Author:	Journal:				
• S • II • E Is a cross-s above?	dy aim/purpose/objectives and inclusion/exclusion criteria assist in ansistudy Aim/Purpose/Objectives: Inclusion Criteria: Exclusion Criteria: Sectional study congruent with the author's study aim/purpose/objectives.	Yes No Unknown				
If you are ur CCHMC Ev	ng the bolded questions, consider the bulleted questions to help answer the main certain of your skills in evidence evaluation, please consult a local evidence experiments of the http://groups/ce/NewEBC/EBDMHelp.htm erms can be found in the LEGEND Glossary: http://groups/ce/NewEBC/EBCFiles	ert for assistance:				
VALIDITY:	ARE THE RESULTS OF THE CROSS-SECTIONAL STUDY VALID OR CREDIBLE?					
test (e.	e sample include an appropriate variety of patients to whom the index g., diagnostic test being studied) will be applied in clinical practice? Were the selection criteria clearly described? Was the reference standard (e.g., gold standard or currently used test) likely to correctly identify the diagnosis in question? Did the cohort include both diseased and non-diseased participants? Were the clinicians blinded to the participant diagnosis prior to reviewing any test results (i.e., diagnostic uncertainty)? mments:	☐ Yes ☐ No ☐ Unknown				
•	the study methods appropriate for the question? Were the data collected at one point in time? Were the study methods clearly described (e.g., setting, sample population)? Was the execution of the index test described in sufficient detail to perr replication of the test? Was the execution of the reference standard described in sufficient det permit replication of the test? mments:					



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3.	Were all appropriate variables (e.g., potential confounders, predictors) clearly described? <i>Comments:</i>	∐ Yes	∐ No	Unknown
4.	 Was there an independent, blind comparison with a reference standard? Did all participants receive verification of diagnosis using the same reference standard, regardless of the index test result? Comments: 	Yes	☐ No	Unknown
5.	Were the index test and reference standard tested simultaneously or in a short period of time, such that you are reasonably sure that the target condition did not change between tests? **Comments:*	Yes	☐ No	Unknown
6.	 Were all participants accounted for at the conclusion of the study? Were withdrawals from the study explained? Was the rate of attrition acceptable? Comments: 	Yes	☐ No	Unknown
7.	 Was there freedom from conflict of interest? Sponsor/Funding Agency or Investigators <i>Comments:</i> 	Yes	☐ No	Unknown
RE	LIABILITY: ARE THESE VALID STUDY RESULTS IMPORTANT?			
8.	 Were the statistical analysis methods appropriate? Were the statistical analysis methods clearly described? Comments: 	Yes	☐ No	Unknown
9.	 Did the study have a sufficiently large sample size? Was a power analysis described? Did the sample size achieve or exceed that resulting from the power analysis. Did each subgroup also have sufficient sample size (e.g., at least 6 to 12 participal Comments: 		☐ No	Unknown



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LO. What are the main results of the study? (e.g., Helpful data: Page #, Table #, Figures, Graphs)					
 What was the effect size? (e.g., Diagnostic Accuracy – Sensitivity/Specificity, Likelihood Ratios, Limits of Agreement, Patie 	ent data to	calculate t	hese)		
• What were the measures of statistical uncertainty (e.g., precision)? (Were the results presented with Confidence Intervals or Standard Deviations?)					
11. Were the index test results and the reference standard results interpreted independently (without knowledge of the results of the other test)? Comments:	Yes	☐ No	Unknown		
12. Were the same clinical data available when test results were interpreted as would be available when the test is used in practice? Comments:	Yes	☐ No	Unknown		
13. Were all test results reported, including uninterpretable or intermediate test results? Comments:	Yes	☐ No	Unknown		
APPLICABILITY: CAN I APPLY THESE VALID, IMPORTANT STUDY RESULTS TO TREATING MY PATII	ENTS?				
 14. Can the results be applied to my population of interest? Is the diagnostic test feasible in my care setting? Is the setting of the study applicable to my population 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		
15. Are my patient's and family's values and preferences satisfied by the use of the diagnostic test? Comments:	Yes	☐ No	Unknown		
16. Would you include this study/article in development of a care recommendation? Comments:	Yes	☐ No	Unknown		



ADDITIONAL COMMENTS OR CONCLUSIONS ("TAKE-HOME POINTS"	ADDITIONAL (COMMENTS OR	Conclusions ("Таке-Номе	Points"
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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 Cross-Sectional Study Lesser Quality Cross-Sectional Study	[4a] [4b]
	Not Valid, Reliable, or Applicable	

		TA	BLE OF EVIDENCE TYPE OF	LEVELS STUDY / STUDY DESI	GN		
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta–Analysis	CCT ⁺ Cohort - Prospective	Psychometric Study	Cohort - Retrospective	Cross- Sectional	Epidemiology Descriptive Case Series	Expert Opinion Case Reports
Diagnosis / Assessment	1a 1b	2a 2b	2a 2b	3a 3b	4a 4b	4a 4b	5a 5b

[†] 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.