

LEGEND: Evidence Appraisal of a Single Study All Domains Bench Study

Pro	pject/Topic of your Clinical Question:												
Re	viewer: Today	y's Date: F	nal Evidence Level:										
	ticle Title:												
Yea	ar: First A	Author: Jo	ournal:										
Do	Do the study aim/purpose/objectives and inclusion/exclusion criteria assist in answering your clinical question? Yes No Unknown • Study Aim/Purpose/Objectives:												
• Inclusion Criteria:													
	• Exclusion Criteria:												
Is a	a bench study congruent with the author's stu Comments:	dy purpose above?	Yes No Unknown										
When reading the bolded questions, consider the bulleted questions to help answer the main question. If you are uncertain of your skills in evidence evaluation, please consult a local evidence expert for assistance: CCHMC Evidence Experts: http://groups/ce/NewEBC/EBDMHelp.htm Unfamiliar terms can be found in the LEGEND Glossary: http://groups/ce/NewEBC/EBCFiles/GLOSSARY-EBDM.pdf													
VALIDITY: Are the Results of the Bench Study Valid or Credible?													
1.	Was there a theoretical basis for the expering Comments:	nent (i.e. biologic or physiologic plausibility	? Yes No Unknown										
2.	 Were the parameters used based on industr If not, was there a substantive argum Comments: 		Yes No Unknown										
3.	Was the study conducted in the field rather environment? Comments:	than a controlled, laboratory	Yes No Unknown										
4.	Were the study methods appropriate? Comments:		Yes No Unknown										
5.	 Were valid and reliable instruments/method Was evidence provided to support the Comments: 		Yes No Unknown										
6.	 Was there freedom from conflict of interests Sponsor/Funding Agency or Investiga Comments: 		Yes No Unknown										



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RELIABILITY: Are these Valid Study Results Important?								
7. Was the description of the methods adequate to allow reproducibility? **Comments:*	Yes No Unknown							
8. Was enough data provided to support study conclusions? Comments:	Yes No Unknown							
9. What were the main results of the bench study? (e.g., Helpful data: Page #, Table #, Figure 1)	ures, Graphs)							
10. Was appropriate allowance made for uncertainties in the analysis? Comments:	Yes No Unknown							
 What were the measures of statistical uncertainty (e.g., precision)? (Were the results presented with Confidence Intervals or Standard Deviations?) Comments: 								
11. Were the results statistically significant? Comments:	Yes No Unknown							
APPLICABILITY: CAN I APPLY THESE VALID, IMPORTANT STUDY RESULTS TO TREATING MY PA	TIENTS?							
 12. Can the results be applied to my population of interest? Can the results of the bench study be translated to the clinical setting? Are the results relevant to my population or question of interest? Comments: 	Yes No Unknown							
13. Would you include this study/article in development of a recommendation? Comments:	Yes No Unknown							
Additional Comments or Conclusions ("Take-Home Points"):								



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 Bench Study	[5a]
	Lesser Quality Bench Study	[5b]
	☐ Not Applicable	

Table of Evidence Levels																				
	TYPE OF STUDY / STUDY DESIGN																			
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta–Analysis	Meta–Synthesis	RCT⁺	сст⁺	Psychometric Study	Qualitative Study	Cohort – Prospective	Cohort – Retrospective	Case – Control	Longitudinal (Before/After, Time Series)	Cross – Sectional	Descriptive Study Epidemiology Case Series	Quality Improvement (PDSA)	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
All Domains	1a 1b											4a 4b		2/3/4 a/b	5a 5b	5a 5b	5a 5b	5a 5b	5a 5b	5

*RCT = Randomized Controlled Trial; CCT = Controlled Clinical Trial

Development Development for this appraisal form is based on:

- 1. Denzen, N. & Lincoln. Y. (2005). The Sage Handbook of Qualitative Research, Sage Publications: Thousand Oaks, California.
- 2. Fineout-Overholt and Johnston: Teaching EBP: asking searchable, answerable clinical questions. Worldviews Evid Based Nurs, 2(3): 157-60, 2005.
- 3. Freshwater, D. (2004). Deconstructing Evidence Based Practice, Routledge: New York: New York.
- 4. Guba, Y. & Lincoln, E. (1989). Fourth Generation Evaluation, Sage Publications: Newbury Part, California.
- 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. Users' guides to the medical literature: a manual for evidence-based clinical practice: "JAMA & archives journals." Chicago, IL, 2002
- Leininger, M (1991). Culture care diversity and universality: A theory of Nursing, National League for Nursing Press: New York
- 7. Leininger, M. & McFarland, M. (2006). 2nd Ed. Culture care diversity and universality: A worldwide nursing theory. Jones & Bartlett Publishers: Sudbury, Mass.
- 8. Lincoln, Y. & Guba, E. (1985). Naturalistic Inquiry, Sage Publications: Newbury Park, California.
- 9. Morse, J., Swanson, J., & Kuzal, A. (2001). The Nature of Qualitative Evidence, Sage Publications: Thousand Oaks, California.
- 10. 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.