

LEGEND: Evidence Appraisal of a Single Study Intervention Systematic Review / Meta-Analysis

Pro	oject/Topic of your Clinical Quest	ion:									
Rev	viewer:	Today's Date:	Final Evidence Level:								
Art	ticle Title:										
Yea	ar:	First Author:	Journal:								
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:										
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											
VA	ALIDITY: ARE THE RESULTS OF TH	E SYSTEMATIC REVIEW / META-ANALY	YSIS VALID OR CREDIBLE?								
1.	Did the overview address a focu Comments:	sed clinical question?	Yes No Unknown								
2.	 Was the search for relevant stude Was it unlikely that important comments: 	dies detailed and exhaustive? ortant, relevant studies were missed	Yes No Unknown								
3.		CTs? o select articles for inclusion appropoatients to treatments randomized?									
4.	Were the included studies appro	aised and assigned a high level of q	uality?								
5.	• •	g the included studies comparable a erventions, and exposures measured									



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 Was there freedom from conflict of interest? Sponsor/Funding Agency or Investigators Comments: 	Yes	☐ No ☐ Unknown									
RELIABILITY: Are these Valid Study Results Important?											
7. What were the main results of the systematic review/meta-analysis? (e.g., Helpful data: Page #, Table #, Figures, Graphs)											
What was the effect size? (How large was the treatment effect?)											
 What were the measures of statistical uncertainty (e.g., precision)? (Were the results presented with Confidence Intervals or Standard Deviations?) 											
8. Were the results statistically significant? Comments:	☐ Yes	☐ No ☐ Unknown									
 9. Were the results clinically significant? If potential confounders were identified, were they discussed in relationsh to the results? Comments: 	☐ Yes ip	☐ No ☐ Unknown									
10. Were adverse events discussed? Comments:	Yes	☐ No ☐ Unknown									
APPLICABILITY: CAN I APPLY THESE VALID, IMPORTANT STUDY RESULTS TO TREATING MY PATIENTS?											
 11. Can the results be applied to my population of interest? Is the treatment feasible in my care setting? Do the patient outcomes apply to my population or question of interest? Are the likely benefits worth the potential harm and costs? Are the patients in this study similar to my population of interest? Comments: 	☐ Yes	☐ No ☐ Unknown									
12. Are my patient's and family's values and preferences satisfied by the treatment and its consequences? Comments:	☐ Yes	☐ No ☐ Unknown									



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13. Would you include this study/article in development of a care recommendation? Yes No Unknown Comments:									
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 Systematic Review ☐ Lesser Quality Systematic Review ☐ Not Valid, Reliable, or Applicable 								

Table of Evidence Levels																		
	TYPE OF STUDY / STUDY DESIGN																	
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta–Analysis	RCT ⁺	CCT ⁺	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
Intervention																		
Treatment, Therapy,	1a	2a	3a	4a	3a	4a	4a	4a	4a	4a	4a	2/3/4	5a	5a	5a	5a	5a	5
Prevention, Harm,	1b	2b	3b	4b	3b	4b	4b	4b	4b	4b	4b	a/b	5b	5b	5b	5b	5b	,
Quality Improvement																		

*RCT = Randomized Controlled Trial; 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. Lohr, K. N. and T. S. Carey (1999). "Assessing "best evidence": issues in grading the quality of studies for systematic reviews." Joint Commission Journal on Quality Improvement 25(9): 470-9.
- 4. Fineout-Overholt, E. and L. Johnston (2005). "Teaching EBP: asking searchable, answerable clinical questions." Worldviews Evid Based Nurs 2(3): 157-60.
- 5. Jerosch-Herold, C. (2005). "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 68(8): 347-53.
- 6. 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.
- 7. Fineout-Overholt and Johnston: Teaching EBP: asking searchable, answerable clinical questions. Worldviews Evid Based Nurs, 2(3): 157-60, 2005.