

Revi	viewer:	Today's Date:	Final Evidence Level: Journal:								
Art Yea	icle Title: ar:	First Author:									
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 RCT or CCT congruent with the author's study aim/purpose/objectives above? Yes No Unknown Comments:											
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 RCT or CCT Valid or Credible?											
1.	-	nts randomly assigned to experimental/exposure and control grounds he study was not randomized, it should be assigned a level for a CCT. Ints:	ups?								
2.	• Wa	andomization conducted appropriately? Is the randomization concealed from those responsible for recruiting the randomization concealed from patients, parents, clinicians, and the randomization concealed from patients.	- •								
3.		of the study, were the participants similar (homogeneous) with respectors of interest (e.g., demographic, exposure, risk, treatment, or etiology)?	ect								
4.	Aside from Comme	the experiment/exposure, were the groups treated equally? ots:	Yes No Unknown								



Yes No Unknown 5. Were all patients who entered the study accounted for at its conclusion? Were withdrawals from the study explained? Was the rate of attrition acceptable? Comments: Yes No Unknown 6. Were patients analyzed in the groups to which they were randomized? Comments: 7. Was the study process long enough to fully study effects of the Yes No Unknown experiment/exposure? Comments: Yes No Unknown Were instruments used to measure the outcomes valid and reliable? Comments: 9. Was there freedom from conflict of interest? Yes No Unknown Sponsor/Funding Agency or Investigators Comments: RELIABILITY: **ARE THESE VALID STUDY RESULTS IMPORTANT?** Yes No Unknown 10. Did the study have a sufficiently large sample size? Was there a power analysis? • 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 participants)? Comments: Yes No Unknown 11. Were the statistical analysis methods appropriate? Were the statistical analysis methods clearly described? If subgroups were evaluated, was a statistical adjustment made for the differences? Comments: 12. What were the main results of the RCT or CCT? (e.g., Helpful data: Page #, Table #, Figures, Graphs)



	 How strong is the association between experiment/exposure and outcome? (What is the correlation or estimate of risk?) 		
	• What were the measures of statistical uncertainty (e.g., precision)? (Were the results presented with Confidence Intervals or Standard Deviations?)		
	What was the effect size? (How large was the effect of the experiment/exposure?)		
13.	Were the results statistically significant? Comments:	es 🗌 No	Unknown
14.	 Were the results clinically significant? If potential confounders were identified, were they discussed in relationship to the results? Comments: 	es 🗌 No	Unknown
15.	Were adverse events assessed? Comments:	es 🗌 No	Unknown
АР	PLICABILITY: CAN I APPLY THESE VALID, IMPORTANT STUDY RESULTS TO MY POPULATION?		
16.	 Can the results be applied to my population of interest? Is the setting of the study applicable to my population of interest? Do the patient outcomes apply to my population or question of interest? Were the patients in this study similar to my population of interest? Comments:	es 🗌 No	Unknown
17.	Are my patient's and family's values and preferences satisfied by the knowledge gained from this study (such as outcomes considered)? Comments:	es 🗌 No	Unknown
18.	Would you include this study/article in development of a care recommendation?	es 🗌 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 RCT Lesser Quality RCT	[2a] [2b]
	Good Quality CCT Lesser Quality CCT	[3a] [3b]
	Not Valid, Reliable, or Applicable	

Table of Evidence Levels															
		TYPE OF STUDY / STUDY DESIGN													
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta–Analysis	RCT⁺	ددا	Cohort – Prospective	Cohort – Retrospective	Case – Control	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
Etiology / Risk Factors	1a	2a	3a	3a	4a	4a	4a	4a	2/3/4	5a	5a	5a	5a	5a	5
	1b	2b	3b	3b	4b	4b	4b	4b	a/b	5b	5b	5b	5b	5b	

^{*}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. 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.