

LEGEND: Evidence Appraisal of a Single Study Intervention

Randomized Controlled Trial (RCT) or Controlled Clinical Trial (CCT)

Project/Topic of your Clinical Question:													
	viewer:	Today's Date:	Final Eviden	ce Level:									
	icle Title:												
Yea	ar:	First Author:	Journal:										
Do		ourpose/objectives and inclusion/exclusion on on/Purpose/Objectives:	criteria assist in answering your	clinical question?									
• 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													
VA	LIDITY: ARE	THE RESULTS OF THE RCT OR CCT VALID OR CREE	DIBLE?										
	Were patients	randomly assigned to treatment and controudy was not randomized, it should be assigned a level f	I groups?	☐ No ☐ Unknown									
2.	Was thWere p	omization conducted appropriately? e randomization concealed from those respo atients, parents, clinicians, and analysts masl ing received?	• .	☐ No ☐ Unknown									
3.	_	ps similar at the start of the trial, with respe ors (i.e., demographic and clinical variables)?	ct to known	☐ No ☐ Unknown									
4.	Aside from the Comments:	experimental treatment, were the groups to	reated equally?	☐ No ☐ Unknown									



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5.	 Were all patients who entered the trial accounted for at its conclusion? Was there a low rate of attrition? Note: If greater than 20% lost to follow up, bias may be of greater concern. Comments: 	Yes	☐ No	Unknown						
6.	Were patients accounted for (and analyzed) in the groups to which they were randomized (i.e., intention-to-treat analysis)? Comments:	Yes	☐ No	Unknown						
7.	Was the study process long enough to fully study effects of the intervention? Comments:	Yes	☐ No	Unknown						
8.	Were instruments used to measure the outcomes valid and reliable? Comments:	Yes	☐ No	Unknown						
9.	 Was there freedom from conflict of interest? Sponsor/Funding Agency or Investigators Comments: 	Yes	☐ No	Unknown						
RE	LIABILITY: Are these Valid Study Results Important?									
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 achieve or exceed that resulting from the power analysis achieve sufficient sample size (e.g., at least 6 to 12 particles). 	•	□ No	Unknown						
11. What were the main results of the RCT or CCT? (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?) 									
12.	Were the results statistically significant?	Yes	□ No	Unknown						



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 Were the results clinically significant? If potential confounders were identified, were they discussed in relationship to the results? Comments: 	Yes	☐ No ☐ Unknown
14. Were adverse events assessed? Comments:	Yes	☐ No ☐ Unknown
APPLICABILITY: Can I Apply these Valid, Important Study Results to Treating MY	PATIENTS	?
 15. 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? Were the patients in this study similar to my population of interest? Comments: 	Yes	□ No □ Unknown
16. Are my patient's and family's values and preferences satisfied by the treatment and its consequences? Comments:	Yes	☐ No ☐ Unknown
17. Would you include this study/article in development of a care recommendation? Comments:	Yes	☐ No ☐ Unknown
Additional Comments or Conclusions ("Take-Home 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 RCT Lesser Quality RCT	[2a] [2b]
	Good Quality CCT	[3a]
	Lesser Quality CCT	[3b]
	Not Valid, Reliable, or Applicable	

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

^{*} 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.