Cincinnati Children's

Controlled Clinical Trial (CCT) or Cohort Study (Prospective/Retrospective)

Pro	pject/Topic of your Clinical Questic	on:								
Rev	viewer:	Today's Date:	Final Evide	al Evidence Level:						
Arti	icle Title:	Eirst Author:	lournal:							
De the study size (numers (shiestives a										
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:									
ls a al	CCT or cohort study congruent wi bove? Comments:	th the author's study aim/pur	pose/objectives	s 🗌 No 🗌 Unknown						
Whe If yo C(Unfa	en reading the bolded questions, consi ou are uncertain of your skills in eviden CHMC Evidence Experts: <u>http://groups</u> amiliar terms can be found in the LEGE	der the bulleted questions to help ice evaluation, please consult a lo <u>ce/NewEBC/EBDMHelp.htm</u> ND Glossary: <u>http://groups/ce/N</u>	o answer the main question. cal evidence expert for assista lewEBC/EBCFiles/GLOSSARY-F	ance: <u>BDM.pdf</u>						
VA	LIDITY: ARE THE RESULTS OF THE	CLINICAL TRIAL OR COHORT STUD	Y VALID OR CREDIBLE?							
1.	Were data collected prospectively Comments:	?	Yes	s 🗌 No 🗌 Unknown						
2.	 Did the sample include an appropindex test (e.g., diagnostic test being st Were the selection criteria c Was the reference standard correctly identify the diagno Did the cohort include both Were the clinicians blinded t test results (i.e., diagnostic unce Comments: 	riate variety of patients to wh udied) will be applied in clinical learly described? (e.g., gold standard or currently used sis in question? diseased and non-diseased par to the participant diagnosis pri- ertainty)?	Iom the practice? Yes Itest) likely to rticipants? or to reviewing any	s 🗌 No 📄 Unknown						
3.	Were the patients similar at the s prognostic factors (i.e., demographic Comments:	tart of the trial, with respect t and clinical variables)?	o known	s 🗌 No 🗌 Unknown						

	Cincinnati Children's Controlled	LEGEND: Evidenc Clinical Trial (CCT) or Cohort Study	e Appraisal of a Single Study Diagnosis / Assessment (Prospective/Retrospective)
4.	Did patients receive the same referen Comments:	ce standard, regardless of the index test?	🗌 Yes 🗌 No 📄 Unknown
5.	 Was the execution of the index test at Was the time period between reto be reasonably sure that the taccomments: 	nd the reference standard described? ference standard and index test short enoug arget condition did not change between test	Yes No Unknown gh s?
6.	 Were all patients accounted for at the Were withdrawals from the stud Was the rate of attrition accepta Comments: 	e conclusion of the study? ly explained? ible?	🗌 Yes 🗌 No 📄 Unknown
7.	 Was there freedom from conflict of in Sponsor/Funding Agency or Inve Comments: 	i terest? stigators	🗌 Yes 🗌 No 📄 Unknown
RE	LIABILITY: ARE THE VALID STUDY RESU	LTS IMPORTANT?	
8.	 Did the study have a sufficiently large Was a power analysis described? Did the sample size achieve or ex Did each subgroup also have sufficients: 	sample size? ? xceed that resulting from the power analysis ficient sample size <i>(e.g., at least 6 to 12 participar</i>	Yes No Unknown
9.	What are the main results of the stud	γ? (e.g., Helpful data: Page #, Table #, Figures, Graph	s)
	• What was the effect size? (e.g., Diagnostic Accuracy – Sensitivity/	Specificity, Likelihood Ratios, Limits of Agreement, Pat	tient data to calculate these)
	• What were the measures of stat (Were the results presented with Confid	istical uncertainty (e.g., precision)? ence Intervals or Standard Deviations?)	
10	. Were the index test results and the reindependently (without knowledge of the reindependents:	eference standard results interpreted esults of the other test, blinded)?	🗌 Yes 🗌 No 📄 Unknown

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 April 9, 2012

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LEGEND: Evide Cincinnati Children's Controlled Clinical Trial (CCT) or Cohort Stu	ence Appraisal of a Single Study Diagnosis / Assessment udy (Prospective/Retrospective)
11. Were the same clinical data available when test results were interpreted as would be available when the test is used in practice? <i>Comments:</i>	🗌 Yes 🗌 No 📄 Unknown
12. Were all test results reported, including uninterpretable or intermediate test results? <i>Comments:</i>	Yes No Unknown
APPLICABILITY: CAN I APPLY THESE VALID, IMPORTANT STUDY RESULTS TO TREATING MY	PATIENTS?
 13. 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? <i>Comments:</i> 	🗌 Yes 🗌 No 📄 Unknown
14. Are my patient's and family's values and preferences satisfied by the use of t diagnostic test? Comments:	he 🗌 Yes 🗌 No 🗌 Unknown
15. Would you include this study/article in development of a care recommendati <i>Comments:</i>	ion? 🗌 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 CCT	[2a]
Lesser Quality CCT	[2b]
Good Quality Cohort-Prospective	[3a]
Lesser Quality Cohort-Prospective	[3b]
Good Quality Cohort-Retrospective	[4a]
Lesser Quality Cohort-Retrospective	[4b]
Not Valid, Reliable, or Applicable	

Table of Evidence Levels														
	TYPE OF STUDY / STUDY DESIGN													
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta–Analysis	ככד⁺	Psychometric Study	Cohort – Prospective	Cohort – Retrospective	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
Diagnosis / Assessment	1a 1b	2a 2b	2a 2b	3a 3b	4a 4b	4a 4b	4a 4b	2/3/4 a/b	5a 5b	5a 5b	5a 5b	5a 5b	5a 5b	5

⁺ CCT = Controlled Clinical Trial

Development for this appraisal form is based on:

Evidence-Based Decision Making – www.cincinnatichildrens.org/evidence

1. Guyatt, G.; Rennie, D.; Evidence-Based Medicine Working Group.; and American Medical Association.: Users' guides to the medical literature : a manual for evidencebased clinical practice. Users' guides to the medical literature : a manual for evidence-based clinical practice: "JAMA & archives journals." Chicago, IL, 2002

Melnyk, B. M. and E. Fineout-Overholt (2005). Evidence-based practice in nursing & healthcare : a guide to best practice. Philadelphia, Lippincott Williams & Wilkins.

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.