

LEGEND: Evidence Appraisal of a Single Study Prognosis Case-Control Study

Pro	Project/Topic of your Clinical Question:								
		Final Evidence Level:							
	Article Title:								
Yea	/ear: 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:								
	Is a case-control study congruent with the author's study aim/purpose/objectives above? Comments: 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									
V۸	ALIDITY: ARE THE RESULTS OF THE CASE—CONTROL STUDY VALID OR CREDIBLE?								
1.	 Are the study methods clearly described and appropriate for the question? Is the setting clearly described and appropriate? Comments: 	Yes No Unknown							
2.	 Were there clearly defined groups of patients, matched on factors or exposure other than the hypothesized association? Were cases and controls at similar risk of developing the outcome? Were all potentially important prognostic factors assessed? Are there subgroups in the sample with very different prognoses compa other subgroups in the study? Comments:	Yes No Unknown							
3.	 Was the assessment of prognostic factors made independent of knowledge of outcomes? Were the prognostic factors quantifiable and precisely measurable? Were treatments/exposures and clinical outcomes measured in the sam way in both groups? Comments:	☐ Yes ☐ No ☐ Unknown							



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Case-Control Study

4.	 Were all participants accounted for at the conclusion of the study? Were missing data explained? Comments: 	Yes	☐ No	Unknown
5.	 Was there freedom from conflict of interest? Sponsor/Funding Agency or Investigators Comments: 	Yes	☐ No	Unknown
REI	ELIABILITY: Are these Valid Study Results Important?			
6.	 Were the statistical analysis methods appropriate? Were the statistical analysis methods clearly described? If subgroups in the sample had different prognostic factors (e.g., demographics, disease specifics, comorbidity), was an adjustment made for the differences betwee Comments: 		No No	Unknown
7.	 Did the study have a sufficiently large sample size? Was a power analysis described? Did the sample size achieve or exceed that resulting from the power analysi Did each subgroup also have sufficient sample size (e.g., at least 6 to 12 participa Comments: 		☐ No	Unknown
8.	What are the main results of the study? (e.g., Helpful data: Page #, Table #, Figures, Graphs)			
	• Is there a strong association between exposure and outcome? (What is the est	imate of ris	sk?)	
	 What were the measures of statistical uncertainty (e.g., precision)? (Were the results presented with Confidence Intervals or Standard Deviations?) 			
9.	Were the results statistically significant? Comments:	☐ Yes	☐ No	Unknown
10.	 Were the results clinically significant? If potential confounders were identified, were they discussed in relationship to the results? Comments: 	Yes	☐ No	Unknown



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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 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:													Unknown		
12. Are my patient's and family's values and preferences satisfied by the knowledge gained from this study (such as outcomes considered)? Comments:												Unknown			
13. Would you include this study/article in development of a care recommendation?															
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 Case-Control Study Lesser Quality Case-Control Study Not Valid, Reliable, or Applicable											[4a] [4b]				
					Tal	ble of									
	Table of Evidence Levels TYPE OF STUDY / STUDY DESIGN														
	DOMAIN OF CLINICAL QUESTION Prognosis	Systematic Review	d b Cohort - Prospective	Cohort – Retrospective	d & Case – Control	d b Cross – Sectional	Descriptive Study B	a/2/2/ Mixed Methods Study	Decision Analysis G & Economic Analysis Computer Simulation	g Guidelines	ក្នុក Case Reports ក្នុក ២ N-of-1 Study	8 Sench Study	을 할 Published Expert Opinion	Local Consensus Published Abstracts	

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.} 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.