

## LEGEND: Evidence Appraisal of a Single Study Etiology, Risk Factors, Prevalence Cross-Sectional Study

Project/Topic	of your Clinical Question:										
Reviewer:	Today's D	ate: F	inal Evidence Level:								
Article Title:											
Year:	First Auth	or: J	ournal:								
Do the study aim/purpose/objectives and inclusion/exclusion criteria assist in answering your clinical question?  Yes No Unknown  • Study Aim/Purpose/Objectives:											
• Inclu	sion Criteria:										
• Excl	• Exclusion Criteria:										
Is a cross-section above?	onal study congruent with the author'	s study aim/purpose/objective	es								
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: <a href="http://groups/ce/NewEBC/EBDMHelp.htm">http://groups/ce/NewEBC/EBDMHelp.htm</a> Unfamiliar terms can be found in the LEGEND Glossary: <a href="http://groups/ce/NewEBC/EBCFiles/GLOSSARY-EBDM.pdf">http://groups/ce/NewEBC/EBCFiles/GLOSSARY-EBDM.pdf</a>											
VALIDITY:	ARE THE RESULTS OF THE CROSS—SECTION	AL STUDY VALID OR CREDIBLE?									
<ul> <li>1. Are the study methods clearly described and appropriate for the question? <ul> <li>Is the setting clearly described and appropriate?</li> <li>Was there a representative sample of patients at a well-defined point in the course of the condition of interest?</li> <li>Is the sample population clearly described and sufficient?</li> </ul> </li> <li>Comments:</li> </ul>											
	participants similar (homogeneous) with r g., demographic, exposure, risk, treatment, or e nts:	•	Yes No Unknown								
• W	ctive and unbiased criteria used to me as the variable of interest quantifiable a ere instruments used to measure the va id and reliable? nts:	and precisely measurable?	Yes No Unknown								



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4.	<ul> <li>Was there freedom from conflict of interest?</li> <li>Sponsor/Funding Agency or Investigators         Comments:     </li> </ul>	Yes	□ No	Unknown						
RE	RELIABILITY: Are these Valid Study Results Important?									
5.	<ul> <li>Did the study have a sufficiently large sample size?</li> <li>Was a power analysis described?</li> <li>Did the sample size achieve or exceed that resulting from the power analysis?</li> <li>Did each subgroup also have sufficient sample size (e.g., at least 6 to 12 participants) Comments:</li> </ul>	<b>Yes</b>	☐ No	Unknown						
6.	<ul> <li>Were the statistical analysis methods appropriate?</li> <li>Were the statistical analysis methods clearly described?</li> <li>If subgroups were evaluated, was a statistical adjustment made for the different Comments:</li> </ul>	Yes nces?	□ No	Unknown						
7. What are the main results of the study? (e.g., Helpful data: Page #, Table #, Figures, Graphs)										
	• For a Prevalence Study: What is the rate (e.g., number per population)?									
	<ul> <li>For an Etiology Study: How strong is the association/correlation between known factors and the variable of interest?</li> </ul>									
	<ul> <li>What were the measures of statistical uncertainty (e.g., precision)? (Were the results presented with Confidence Intervals or Standard Deviations?)</li> </ul>									
8.	. Were the results statistically significant?  Note: This question may not be applicable in all prevalence studies.  Comments:	Yes	□ No	Unknown						
9.	<ul> <li>Were the results clinically significant?</li> <li>If potential confounders were identified, were they discussed in relationship to the results?</li> <li>Comments:</li> </ul>	Yes	☐ No	Unknown						



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APPLICABILITY: CAN I APPLY THESE VALID, IMPORTANT STUDY RESULTS TO MY POPULATION?								
<ul> <li>10. Can the results be applied to my population of interest?</li> <li>Is the setting of the study applicable to my population of interest?</li> <li>Were the participants in this study similar to my population of interest?</li> <li>Does the variable of interest apply to my population or question of interest?</li> <li>Comments:</li> </ul>								
11. Are my patient's and family's values and preferences satisfied by the knowledge gained from this study?  Comments:  Yes No Unknown								
12. 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 EVIDEN		Good Quality Cross-Sectional Study: Lesser Quality Cross-Sectional Study:  Not Valid, Reliable, or Applicable								Etiology / Risk Factors [4a] [4b]		s	Prevalence [3a] [3b]			
					Table	of Ev	idenc	e Levels								
	TYPE OF STUDY / STUDY DESIGN															
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta–Analysis	RCT ⁺	ccr ⁺	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 1b	2a 2b	3a 3b	3a 3b	4a 4b	4a 4b	4a 4b	4a 4b	2/3/4	5a 5b	5a 5b	5a	5a 5b	5a	5	
Drovolones	10	20	30	30	40	40	40	40	a/b	30	50	5b	50	5b	-	

RCT = Randomized Controlled Trial; CCT = Controlled Clinical Trial

## Development for this appraisal form is based on:

1b

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

3b

- 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.