## **LEGEND Evidence Appraisal of a Single Study**

### Prognosis

# Systematic Review / Meta-Analysis

Rev	viewer:	Today's Date:	Final Evidence Level:						
Pro	ject/Topic of your Clinical Question:								
Arti	icle Title:								
Yea	r: First Author:	J	ournal:						
ansv	he study aim/purpose/objectives and inclusion vering your clinical question? Study Aim/Purpose/Objectives:	□ Yes	] Yes □ No □ Ur						
• I	nclusion Criteria:								
• E	Exclusion Criteria:								
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									
			analvsis vai	lid?					
1.		First Author:    Simpurpose/Objectives and inclusion/exclusion criteria assist in order clinical question?   Yes   No   Unknown myPurpose/Objectives:   Criteria:   Yes   No   Unknown myPurpose/Objectives:   Criteria:   Yes   No   Unknown myPurpose/Objectives:   Yes   No   Unknown myPurpose/Objectives:   Yes   No   Unknown myPurpose/Objectives:   Yes   No   Unknown myPurpose   Yes   Yes   No   Unknown myPurpose   Yes   Yes   No   Unknown myPurpose   Yes   Yes							
2.		•							
					□ Olikilowii				
3.	· · · · · · · · · · · · · · · · · · ·		☐ Yes	□ No	□ Unknown				
4.		ous from study to study?	☐ Yes	□ No	☐ Unknown				
	(such as the bullets below)	t a wall defined point in the course of	dicasco?						
			uiscase:						
	Were objective and unbiased outcome criteria use	· · · · · · · · · · · · · · · · · · ·							
	Was the follow-up sufficiently complete?								
5.			☐ Yes	□ No	☐ Unknown				
	-								
6.	was there freedom from conflict of interest?	<u>r</u>	⊔ Yes	⊔ No	□ Unknown				
Comments on Study Validity:									
Re	liability Are these valid stu	dy results important?							
7.	· · · · · · · · · · · · · · · · · · ·	-	☐ Yes	□ No	☐ Unknown				
			pecifics,						
	• • • • • • • • • • • • • • • • • • • •	• 1							
8.	· · · · · · · · · · · · · · · · · · ·		Graphs)						
	2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2								

#### **LEGEND Evidence Appraisal of a Single Study**

**Prognosis** 

## Systematic Review / Meta-Analysis



9.	Were the results statistically significant?	☐ Yes	□ No	□ Unknown					
10.	Were the results clinically significant?	☐ Yes	□ No	☐ Unknown					
Con	nments on Study Reliability:								
Ap	plicability Can I apply these valid, important study results t	o my patieni	ts?						
11.	<ul> <li>Can the results be applied to my population of interest?</li> <li>Do the patient outcomes apply to my population or question of interest?</li> <li>Were the patients in the studies similar to my population of interest?</li> <li>Is the setting of the study applicable to my population of interest?</li> </ul>	□ Yes	□ No	□ Unknown					
12.	Are my patient's values and preferences satisfied by the knowledge gained from this study (such as outcomes considered)?	I □ Yes	□ No	☐ Unknown					
13.	Would you include this study/article in development of a care recommendation?	☐ Yes	□ No	□ Unknown					
Comments on Study Applicability:									
Additional Comments or Conclusions ("Take-Home Points")									
Quality Level / Evidence Level									
<ul> <li>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.</li> <li>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.</li> </ul>									
The		[1a] [1b]							
	☐ Not Valid Reliable or Applicable								

Table of Evidence Levels													
	TYPE OF STUDY / STUDY DESIGN												
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta-Analysis	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	Bench Study	Published Expert Opinion	Local Consensus Published Abstracts
Prognosis	1a	2a	3a	4a	4a	4a	2/3/4	5a	5a	5a	5a	5a	5
1 109110313	1b	2b	3b	4b	4b	4b	a/b	5b	5b	5b	5b	5b	<b>J</b>

Development for this appraisal form is based on:

<sup>1.</sup> 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

<sup>2.</sup> Melnyk, B. M. and E. Fineout-Overholt (2005). Evidence-based practice in nursing & healthcare: a guide to best practice. Philadelphia, Lippincott Williams & Wilkins.

<sup>3.</sup> 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

<sup>4.</sup> Fineout-Overholt and Johnston: Teaching EBP: asking searchable, answerable clinical questions. Worldviews Evid Based Nurs, 2(3): 157-60, 2005.

Porzsolt F, Ohletz A, Thim A, et al. Evidence-based decision making—the six step approach. BMJ Evidence-Based Medicine 2003;8:165-166.
 Clark, E., Burkett, K., & Stanko-Lopp, D. (2009, Dec). Let Evidence Guide Every New Decision (LEGEND): an evidence evaluation system for point-of-care clinicians and guideline development teams [CCHMC LEGEND development]. J Eval Clin Pract, 15(6), 1054-1060.