LEGEND: Evidence Appraisal of a Single Study

Intervention

Longitudinal Study - Before/After, Time Series



Rev	iewer:	Гoday's Date:	Final	Final Evidence Level:					
Pro	ject/Topic of your Clinical Question:								
Arti	cle Title:								
Yea	r: First Author:	J.	ournal:						
answ	ne study aim/purpose/objectives and inclusion/exvering your clinical question? Study Aim/Purpose/Objectives:	□ Yes	□ Unknown						
• Ir	nclusion Criteria:								
• E	exclusion Criteria:								
	ongitudinal study congruent with the author's stu ctives above?	ıdy aim, purpose, or	□ Yes	□ No	□ Unknown				
If you	n reading the bolded questions, consider the bulleted are uncertain of your skills in evidence evaluation, p • <u>CCHMC Evidence Experts</u> miliar terms can be found in the <u>LEGEND Glossary</u> .	·			e:				
Val	idity Are the results of the L	Longitudinal Study valid?							
1.	 Were the study methods appropriate for the que Were the study methods clearly described (e.g., setting, Were the data collected at more than one point in time 	sample population)?	☐ Yes	□ No	□ Unknown				
2.	Were instruments used to measure the outcome • Were the instruments tested to be reliable?		☐ Yes	□ No	☐ Unknown				
3.	Were all appropriate variables (e.g., potential confo and interventions clearly described?	ounders, exposures, predictors)	☐ Yes	□ No	☐ Unknown				
4.	Were all appropriate outcomes clearly describe	d?	☐ Yes	□ No	□ Unknown				
5.	Was there freedom from conflict of interest?Sponsors, Funding Agency, Investigators		☐ Yes	□ No	☐ Unknown				
Com	nments on Study Validity:								
Rel	liability Are these valid study i	esults important?							
6.	Were the statistical analysis methods appropria • Were the statistical analysis methods clearly described	☐ Yes	□ No	□ Unknown					
7.	 Did the study have a sufficiently large sample s Was a power analysis described? Did the sample size achieve or exceed that resulting from Did each subgroup also have sufficient sample size (e. 	□ Yes	□ No	□ Unknown					
8.	 What were the main results of the study? (e.g., He What was the effect size? (How large was the treatment e What were the measures of statistical uncertainty (e.g., (Were the results presented with Confidence Intervals or Start 	ffect?) precision)?	Graphs)						

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CLINICAL QUESTION Intervention Treatment, Therapy,

Prevention, Harm,

Quality Improvement 1a

1b

2a

2b

3a

3b

4a

4b

Longitudinal Study – Before/After, Time Series



5a

5b

5a

5

9.	Were the	resul	ts sta	atistic	ally	signif	icant	?						□ Y	es	□ No	☐ Unkn		own
 10. Were the results clinically significant? If potential confounders were identified, were they discussed in relationship to the res 										□ Y	es	□ No		Unkno	own				
							, were	they o	discuss	ed in	relations	hip to tl	he result						
11. Were adverse events assessed?											□ Y	es	□ No □ Unknown						
Con	nments on	Study	/ Reli	abilit	<i>y:</i>														
Ap	plicabil	ity			Car	ı I app	oly the	ese v	alid, i	mpoi	rtant stu	ıdy re	sults to	treating	g my	patien	ts?		
12.	Can the						-	tion	of inte	rest?	?			□ Y	es	□ No		Unkno	own
	Is the tre				-		_				_								
		patient outcomes apply to my population or question of interest? e likely benefits worth the potential harm and costs?																	
		-				-					2								
 Are the patients in this study similar to my population of interest? 13. Are my patient's and family's values and preferences satisfied by the treatment and its consequences? 													□ Y	es	□ No		Unkno	own	
14.	treatment and its consequences? Would you include this study/article in development of a care recommendation?										□ Y	es	□ No		Unkno	own			
	recommo	endati	on?																
Con	nments on	Study	/ App	licab	ility:														
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Ad	ditional	Cor	nme	ents	s or	Cor	ıcıu	Sior	15 ("	Take	-Home	Point	s")						
Qu	ality Le	vel /	Evi	der	ıce	Lev	el												
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	appropriate										a iiiieai	lo liie	validity 0	i ille resu	115, 111	en chec	K IIIE		
	Consider an										ar limitati	on to a	nswering	"No," if t	he info	ormation	n is no	ot availe	able
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^{*} RCT = Randomized Controlled Trial; CCT = Controlled Clinical Trial

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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. 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.
- 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.
- 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.