LEGEND: Evidence Appraisal of a Single Study

Intervention

Cross-Sectional Study

6	Cincinnati Children's
	changing the outcome together

Rev	viewer:	Today's Date:	Final Evidence Level:				
Pro	ject/Topic of your Clinical Question:						
	icle Title:						
Yea	r: First Author:		lournal:				
ansv	he study aim/purpose/objectives and incl vering your clinical question? Study Aim/Purpose/Objectives:	usion/exclusion criteria assist in	□ Yes	□ No	□ Unknown		
• li	nclusion Criteria:						
• E	Exclusion Criteria:						
	cross-sectional study congruent with the ctives above?	author's study aim, purpose, or	□ Yes	□ No	□ Unknown		
Whe	en reading the bolded questions, consider the	e bulleted questions to help answer th	e main ques	tion.			
If yo	u are uncertain of your skills in evidence eva	luation, please consult a local eviden	ce expert for	assistanc	e:		
Llofa	CCHMC Evidence Experts Applies to the country of the LECEND Country of the	looper.					
	miliar terms can be found in the <u>LEGEND G</u>	lossary.					
Va	lidity Are the results	of the Cross-Sectional Study vali	id?				
1.	 Were the study methods appropriate fo Were the study methods clearly described (e) Were the instruments clearly described? Were the data collected at one point in time? 	•	☐ Yes	□ No	□ Unknown		
2.	Were instruments used to measure the • Were the instruments tested to be valid and r		☐ Yes	□ No	□ Unknown		
3.	Were all appropriate variables (e.g., pote and interventions clearly described?		☐ Yes	□ No	□ Unknown		
4.	Were all appropriate outcomes clearly of		☐ Yes	□ No	☐ Unknown		
5.	 Were all participants accounted for at the time of the study explained? Was the rate of attrition acceptable? 	ne conclusion of the study?	□ Yes	□ No	□ Unknown		
6.	Was there freedom from conflict of inte • Sponsors, Funding Agency, Investigators	rest?	☐ Yes	□ No	□ Unknown		
Con	nments on Study Validity:						
Re	liability Are these valid	d study results important?					
7.	Were the statistical analysis methods a • Were the statistical analysis methods clearly		☐ Yes	□ No	□ Unknown		
9.	 Did the study have a sufficiently large s Was a power analysis described? Did the sample size achieve or exceed that ro Did each subgroup also have sufficient samp What were the main results of the study 	esulting from the power analysis? le size (e.g., at least 6 to 12 participants)?	☐ Yes	□ No	□ Unknown		
	 What was the effect size? (How large was the t What were the measures of statistical uncertainty (Were the results presented with Confidence Internal 	reatment effect?) ainty (e.g., precision)?	,				

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Intervention

CLINICAL **QUESTION** Intervention

Treatment, Therapy,

Quality Improvement

Prevention, Harm,

1a

1b

2a

2b

3a

3b

4a

4b

Cross-Sectional Study



10.	Were the	e resum	s stat	ISTIC	ally 5	<u>sigiiiii</u>	icani :						☐ Ye	<u> </u>	□ No		Unkno	wn
11.	Were the			•	_								☐ Ye	s	□ No		Unkno	wn
							were t	hey d	liscussed ir	relations	hip to th	e results						
12.	Were ad	verse e	events	asse	esse	d?							☐ Ye	S	□ No		Unkno	wn
Con	nments or	Study	Relia	bility	:													
Ap	plicabil	lity		(Can	I арр	ly the	se va	alid, impo	rtant stu	ıdy res	sults to	my patie	ents	?			
13.	Can the	results	be a	pplied	d to r	my po	pulat	ion c	of interest	?			☐ Ye	s	□ No		Unkno	wn
	 Is the tr 		-	-			-									_		
	Do the	patient c	utcom	es app	oly to	my po	pulatio	n or c	question of	interest?								
	 Are the 	likely be	enefits	worth	the p	otentia	al harm	and	costs?									
	Are the	patients	in this	study	simil /	lar to r	ny pop	ulatio	n of interes	t?								
4.	treatmer	nt and i	ts cor	nsequ	ienc	es?			erences		by the)	□ Ye	S	□ No		Unkno	wn
5.	Would y recomm			nis st	udy/a	articl	e in d	evelo	opment of	a care			□ Ye	S	□ No		Unkno	wn
۱d	ditiona	I Con	nme	nts	or (Con	clus	sion	IS ("Tak	e-Home	Points	s")						
Qu	ality Le Consider ea	evel /	Evic answe	deno	ce L	_ ev e	el to whic	ch this	s limitation dy/article.	s a threat	to the v	validity of					t availa)/e
Qu	ality Le	evel / ech "No" box to a	Evic answe	deno	ce L	_ ev e	el to whic	ch this	s limitation dy/article.	s a threat	to the v	validity of					t availai	ole
Qu	ality Le Consider ea appropriate Consider an	evel / ach "No" box to a "Unkno	Evic answe assign a wwn" ar	deno	ce L	_eve	to whice	ch this is stud estion	s limitation dy/article. as as a simi	is a threat Iar limitati	to the v	validity of	"No," if th				t availai	ole
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2/3/4

a/b

5a

5b

5a

5b

5a

5b

5a

5b

5

5a

5b

3a

3b

4a

4b

4a

4b

4a

4b

4a

4b

4a

4b

4a

4b

⁺ 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.
- 8. 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.