

Pro	oject/Topic of your Clinical Question:				
Re	viewer:	Today's Date:	Final Evi	dence Level	:
Art	ticle Title:				
Ye	ar:	First Author:	Journal:		
Do	the study aim/purpose/objectives an	d target population assist i	n answering your clinic	al question?	?
				Yes 💹 No	Unknown
	Study Aim/Purpose/Objectives:				
	Target Population:				
	- raiget i opalation.				
le s	a decision analysis, economic analysis,	or computer simulation co	angruent with the		
	thor's study aim/purpose/objectives a			Yes No	Unknown
	Comments:				
\ \ /h	nen reading the bolded questions, consider	the bulleted questions to help	a answer the main questic	n	
	you are uncertain of your skills in evidence ϵ	-	•		
-	CCHMC Evidence Experts: http://groups/ce/		out estatement expert for doc		
Un	familiar terms can be found in the LEGEND	Glossary: http://groups/ce/N	lewEBC/EBCFiles/GLOSSAF	Y-EBDM.pdf	
\					
VA	ALIDITY: ARE THE RESULTS OF THE DEC	ISION ANALYSIS OR ECONOM	IC ANALYSIS VALID OR CRI	DIBLE?	
1.	Was a well-defined question posed?			Yes 🗌 No	Unknown
	Note: An ideal, well-defined question incl				
	Outcomes. Economic analysis also includ system, payor, consumer).	es Cost and Perspectives (e.g., so	cietal, nealthcare		
	Comments:				
2.	Were all important, realistic strategie	es included and clearly spe	cified?	Yes 🗌 No	Unknown
	 Was the intervention(s) or strange 	ategy(ies) clearly described a	and appropriate?		
	 Were the comparator(s) (e.g., c 	competing alternatives, reference	case, standard of care)		
	clearly described and appropr	riate?			
	Comments:				
_					
3.	Was there evidence that the interver	ition/strategy effectivenes	_	v 🗆 N	
	established?	//	_	Yes No	Unknown
	 What was the evidence level (Comments: 	i.e., quality level) of the evidel	nce!		
	comments.				



4.	 Were all important and relevant outcomes considered (e.g., clinical, quality of life, harm, disability, death, costs, lost time from work)? Was the length of time considered (analysis time horizon) long enough to idential important and relevant outcomes? Comments: 	Yes	☐ No	Unknown
5.	Was a model clearly described and appropriate? Comments:	Yes	☐ No	Unknown
6.	For an economic analysis, do included costs match stated perspective(s)? Comments:	Yes	☐ No	Unknown
7.	Were the outcomes and costs measured using valid and reliable tools? Comments:	Yes	☐ No	Unknown
8.	In measuring outcomes and costs, were the measures/utilities used valued and appropriate? Note: Measures/Utilities include, but are not limited to, ICER (Incremental Cost-Effectiveness Ratio), QALY (Quality-Adjusted Life Years), or DALY (Daily-Adjusted Life Years). • Were the measures/utilities obtained in an explicit and sensible way from credible sources? Comments:	Yes	☐ No	Unknown
9.	Was an explicit and sensible process used to identify, select, and combine evidence into probabilities? • Was the potential impact of any uncertainty in the evidence determined (e.g., Sensitivity Analysis)? Comments:	☐ Yes	□ No	Unknown
10.	 Was there freedom from conflict of interest? Sponsor/Funding Agency or Investigators Comments: 	☐ Yes	□ No	Unknown
RE	LIABILITY: How Were Outcomes and Costs Assessed and Compared?			
11.	Does one strategy result in a clinically important gain for patients? If No, is the result a toss—up? • Were the main assumptions stated and justified? Comments:	Yes Yes	☐ No ☐ No	Unknown



12.	Could uncertainty in the evidence change the result? Comments:	Yes	∐ No	Unknown
13.	For an economic analysis, was a comprehensive economic comparison of all important health care strategies conducted? • Were the main assumptions stated and justified? Comments:	Yes	☐ No	Unknown
14.	What are the main results of the study? (e.g., Helpful data: Page #, Table #, Figures, Graphs)			
	 Is the model validated by the results?			
	 How large was the main effect (e.g., clinical outcomes, process outcomes, magnitude of ratios, total cost, cost-effectiveness ratios)? 			
15.	Was an incremental analysis (i.e., CE Ratios) of the outcomes and costs of alternatives performed (i.e., Sensitivity Analysis)? Comments:	S Yes	☐ No	Unknown
16.	Was appropriate allowance made for uncertainties in the analysis? Comments:	☐ Yes	☐ No	Unknown
	 What were the measures of statistical uncertainty (e.g., precision)? (Were the results presented with Confidence Intervals or Standard Deviations?) 			
17.	Were outcomes and costs adjusted for different times at which they occurred, such as discounting? Comments:	☐ Yes	☐ No	Unknown
18.	Are the estimates of outcomes and costs related to the baseline risk in the treatment population, if relevant? Comments:	Yes	☐ No	Unknown
19.	Were the results statistically significant? Comments:	Yes	☐ No	Unknown



20.	 Were the results clinically significant? If potential confounders were identified, were they discussed in relationship to the results? Comments: 	Yes	☐ No ☐ Unknown
21.	Were the conclusions of the evaluation justified by the evidence presented? Comments:	Yes	☐ No ☐ Unknown
АР	PLICABILITY: CAN I Apply these valid, important study results to my population?	IS THE EV	ALUATION USABLE?
22.	Did the presentation and discussion of the results include all or enough of the issues that are of concern to consumers (e.g., patient, healthcare system, policy maker, payor)? Comments:	Yes	☐ No ☐ Unknown
23.	 Can the results be applied to my population of interest? Is the intervention feasible in my care setting? Are the likely benefits worth the potential harm and costs? Comments: 	Yes	☐ No ☐ Unknown
24.	Are my patient's and family's values and preferences satisfied by the knowledge gained from this study? • Were the patients in this study similar to my population of interest? • Do your patient and you have a clear assessment of their values and prefere • Are they met by this analysis? Comments:	Yes ences?	☐ No ☐ Unknown
25.	Would you include this study/article in development of a recommendation? Comments:	Yes	☐ No ☐ Unknown
ΑD	DITIONAL COMMENTS OR CONCLUSIONS ("TAKE-HOME POINTS"):		



LEGEND: Evidence Appraisal of a Single Study All Domains Decision Analysis / Economic Analysis / Computer Simulation

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 Decision Analysis / Economic Analysis / Computer Simulation Lesser Quality Decision Analysis / Economic Analysis / Computer Simulation	
	Not Valid, Reliable, or Applicable	[30]

Table of Evidence Levels																				
TYPE OF STUDY / STUDY												DESIG	6N							
DOMAIN OF CLINICAL QUESTION	Systematic Review Meta-Analysis	Meta–Synthesis	RCT ⁺	сст⁺	Psychometric Study	Qualitative Study	Cohort – Prospective	Cohort – Retrospective	Case – Control	Longitudinal (Before/After, Time Series)	Cross – Sectional	Descriptive Study Epidemiology Case Series	Quality Improvement (PDSA)	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
All Domains	1a 1b											4a 4b		2/3/4 a/b	5a 5b	5a 5b	5a 5b	5a 5b	5a 5b	5

*RCT = Randomized Controlled Trial; CCT = Controlled Clinical Trial

Development for this appraisal form is based on:

- 1. Brown, A. D.; Raab, S. S.; Suba, E. J.; Wright, R. G.; and International Consensus Conference on the Fight Against Cervical Cancer, I. A. C. T. F. S. C. I. U. S. A.: Cost-effectiveness studies on cervical cancer. Acta Cytologica, 45(4): 509-14, 2001.
- 2. Drummond, M. F.; Aguiar-Ibanez, R.; and Nixon, J.: Economic evaluation. Singapore Med J, 47(6): 456-61; quiz 462, 2006.
- 3. Fineout-Overholt and Johnston: Teaching EBP: asking searchable, answerable clinical questions. Worldviews Evid Based Nurs, 2(3): 157-60, 2005.
- 4. 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. Users' guides to the medical literature: a manual for evidence-based clinical practice: "JAMA & archives journals." Chicago, IL, 2002
- 5. Kopec, J. A. et al.: Validation of population-based disease simulation models: a review of concepts and methods. BMC Public Health, 10: 710, 2010.
- 6. Melnyk, B. M. and E. Fineout-Overholt (2005). Evidence-based practice in nursing & healthcare: a guide to best practice. Philadelphia, Lippincott Williams & Wilkins.
- 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.
 Siegel, J. E.; Weinstein, M. C.; Russell, L. B.; and Gold, M. R.: Recommendations for reporting cost-effectiveness analyses. Panel on Cost-Effectiveness in Health and Medicine. JAMA, 276(16): 1339-41, 1996.
- 9. Soares, M., and Dumville, J. C.: Critical appraisal of cost-effectiveness and cost-utility studies in health care. Evidence-Based Nursing, 11(4): 99-102, 2008.
- 10. Weinstein, M. C.; Siegel, J. E.; Gold, M. R.; Kamlet, M. S.; and Russell, L. B.: Recommendations of the Panel on Cost-effectiveness in Health and Medicine. JAMA, 276(15): 1253-8, 1996.