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## **CHEERS Checklist**

## Items to include when reporting economic evaluations of health interventions

The **ISPOR CHEERS Task Force Report**, Consolidated Health Economic Evaluation Reporting Standards (CHEERS)—Explanation and Elaboration: A Report of the ISPOR Health Economic Evaluations Publication Guidelines Good Reporting Practices Task Force, provides examples and further discussion of the 24-item CHEERS Checklist and the CHEERS Statement. It may be accessed via the Value in Health or via the ISPOR Health Economic Evaluation Publication Guidelines – CHEERS: Good Reporting Practices webpage: http://www.ispor.org/TaskForces/EconomicPubGuidelines.asp

Section/item	Item No	Recommendation	Reported on page No/ line No
Title and abstract			
Title	1	Identify the study as an economic evaluation or use more specific terms such as "cost-effectiveness analysis", and describe the interventions compared.	Page 1: lines 1-2
Abstract	2	Provide a structured summary of objectives, perspective, setting, methods (including study design and inputs), results (including base case and uncertainty analyses), and conclusions.	Page 2: lines 1-20
Introduction			
Background and objectives	3	Provide an explicit statement of the broader context for the study.  Present the study question and its relevance for health policy practice decisions.  Page 3:	or lines 1-23, Page 4, lines
Methods			
Target population and subgroups	4	Describe characteristics of the base case population and subgroups analysed, including why they were chosen.	Page 6: lines 20-23, Page 7: lines 1-6
Setting and location	5	State relevant aspects of the system(s) in which the decision need(s) to be made.	(s) Page 6: lines 1-8
Study perspective	6	Describe the perspective of the study and relate this to the costs being evaluated.	Page 7: lines 8-23
Comparators	7	Describe the interventions or strategies being compared and state why they were chosen.	Page 6: lines 20-23, Page 7: lines 1-6
Time horizon	8	State the time horizon(s) over which costs and consequences are being evaluated and say why appropriate.	Page 6: lines 20-23, Page 7: lines 1-6
Discount rate	9	Report the choice of discount rate(s) used for costs and outcomes and say why appropriate.	Page 7: lines 19-23
Choice of health outcomes	10	Describe what outcomes were used as the measure(s) of benefit in the evaluation and their relevance for the type of analysis performed.	Page 7: lines 8-23
Measurement of effectiveness	11a	Single study-based estimates: Describe fully the design features of the single effectiveness study and why the single study was a sufficient source of clinical effectiveness data.	



	11b	Synthesis-based estimates: Describe fully the methods used for
		identification of included studies and synthesis of clinical
M	10	effectiveness data.
Measurement and	12	If applicable, describe the population and methods used to
valuation of preference based outcomes		elicit preferences for outcomes.
	13a	Single study based accommic avaluation: Describe approaches
Estimating resources and costs	13a	Single study-based economic evaluation: Describe approaches used to estimate resource use associated with the alternative
and costs		interventions. Describe primary or secondary research methods
		for valuing each resource item in terms of its unit cost.
		Describe any adjustments made to approximate to opportunity
		costs.
	13b	Model-based economic evaluation: Describe approaches and
		data sources used to estimate resource use associated with
		model health states. Describe primary or secondary research
		methods for valuing each resource item in terms of its unit
		cost. Describe any adjustments made to approximate to
		opportunity costs. Supplemental Methods
Currency, price date,	14	Report the dates of the estimated resource quantities and unit
and conversion		costs. Describe methods for adjusting estimated unit costs to
		the year of reported costs if necessary. Describe methods for
		converting costs into a common currency base and the
C1 : C 1.1	1.5	exchange rate. Page 7: lines 19-23, and Supplemental Methods
Choice of model	15	Describe and give reasons for the specific type of decision- Supplemental Methods
		analytical model used. Providing a figure to show model  Page 2: lines 15-23,  otructure is strongly recommended.
Assumptions	16	structure is strongly recommended. Page 3: lines 1-2  Describe all structural or other assumptions underpinning the
Assumptions	10	decision-analytical model.  Supplemental Methods
Analytical methods	17	Describe all analytical methods supporting the evaluation. This
i mary tical methods	1 /	could include methods for dealing with skewed, missing, or
		censored data; extrapolation methods; methods for pooling
		data; approaches to validate or make adjustments (such as half
		cycle corrections) to a model; and methods for handling
		population heterogeneity and uncertainty. Supplemental Methods
Results		<u></u>
Study parameters	18	Report the values, ranges, references, and, if used, probability
const possessions		distributions for all parameters. Report reasons or sources for
		distributions used to represent uncertainty where appropriate.
		Providing a table to show the input values is strongly
		recommended. Table 1, Supplemental Table 1 & 2
Incremental costs and	19	For each intervention, report mean values for the main
outcomes		categories of estimated costs and outcomes of interest, as well
		as mean differences between the comparator groups. If
		applicable, report incremental cost-effectiveness ratios.  Table 2 & 3
Characterising	20a	Single study-based economic evaluation: Describe the effects
uncertainty		of sampling uncertainty for the estimated incremental cost and
		incremental effectiveness parameters, together with the impact



	20b	of methodological assumptions (such as discount rate, study perspective).  Model-based economic evaluation: Describe the effects on the results of uncertainty for all input parameters, and uncertainty	Page 10: lines 21-23, Page 11: lines 1-3, Figure 4
Characterising	21	related to the structure of the model and assumptions.  If applicable, report differences in costs, outcomes, or cost-	- I igule 4
heterogeneity		effectiveness that can be explained by variations between subgroups of patients with different baseline characteristics or other observed variability in effects that are not reducible by more information.	Table 2
Discussion			
Study findings, limitations, generalisability, and current knowledge	22	Summarise key study findings and describe how they support the conclusions reached. Discuss limitations and the generalisability of the findings and how the findings fit with current knowledge.  Page 11: lines 5-23, Page 12: lines	1 <u>-23, Page 13: l</u> ines 1-6
Other			
Source of funding	23	Describe how the study was funded and the role of the funder in the identification, design, conduct, and reporting of the analysis. Describe other non-monetary sources of support.	Page 2: lines 5-6
Conflicts of interest	24	Describe any potential for conflict of interest of study contributors in accordance with journal policy. In the absence of a journal policy, we recommend authors comply with International Committee of Medical Journal Editors	
		recommendations.	Page 2: lines 7-14

For consistency, the CHEERS Statement checklist format is based on the format of the CONSORT statement checklist

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