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: <u>http://www.ispor.org/TaskForces/EconomicPubGuidelines.asp</u>

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.	p1/lines1-2
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.	p2-3/lines 44-6
Introduction			
Background and objectives	3	Provide an explicit statement of the broader context for the study.	p3/lines 129-131
5		Present the study question and its relevance for health policy of practice decisions.	p4/lines 129-131
Methods			
Target population and subgroups	4	Describe characteristics of the base case population and subgroups analysed, including why they were chosen.	p5/line 140 and Table 1
Setting and location	5	State relevant aspects of the system(s) in which the decision(s) need(s) to be made.	p5/line138
Study perspective	6	Describe the perspective of the study and relate this to the costs being evaluated.	p5/line 153
Comparators	7	Describe the interventions or strategies being compared and state why they were chosen.	p5/line 150
Time horizon	8	State the time horizon(s) over which costs and consequences are being evaluated and say why appropriate.	p5/line 153
Discount rate	9	Report the choice of discount rate(s) used for costs and outcomes and say why appropriate.	p5/line 178
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.	p4/line 158
Measurement of effectiveness	11a	<i>Single study-based estimates:</i> Describe fully the design features of the single effectiveness study and why the single study was a sufficient source of clinical effectiveness data.	



	11b	<i>Synthesis-based estimates:</i> Describe fully the methods used for identification of included studies and synthesis of clinical effectiveness data.	p5/lines151-152
Measurement and valuation of preference based outcomes	12	If applicable, describe the population and methods used to elicit preferences for outcomes.	n/a
Estimating resources and costs	13a	<i>Single study-based economic evaluation:</i> Describe approaches used to estimate resource use associated with the alternative 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	<i>Model-based economic evaluation:</i> 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.	Supplementary material p5/lines 126-150
Currency, price date, and conversion	14	Report the dates of the estimated resource quantities and unit 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 exchange rate.	Supplementary material p5/ line 145
Choice of model	15	Describe and give reasons for the specific type of decision- analytical model used. Providing a figure to show model structure is strongly recommended.	p4/line 142, section S2 and Figure S.1 in the
Assumptions	16	Describe all structural or other assumptions underpinning the decision-analytical model.	Supplement p5/line 140
Analytical methods	17	Describe all analytical methods supporting the evaluation. This 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.	
Results		population neterogeneity and uncertainty.	material p4/line 87
Study parameters	18	Report the values, ranges, references, and, if used, probability 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 S.3 and Supplemenat ary material,
Incremental costs and outcomes	19	For each intervention, report mean values for the main categories of estimated costs and outcomes of interest, as well as mean differences between the comparator groups. If	section S.2
Characterising uncertainty	20a	applicable, report incremental cost-effectiveness ratios. Single study-based economic evaluation: Describe the effects of sampling uncertainty for the estimated incremental cost and incremental effectiveness parameters, together with the impact	Table 4



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	20b	of methodological assumptions (such as discount rate, study perspective). <i>Model-based economic evaluation:</i> Describe the effects on the results of uncertainty for all input parameters, and uncertainty related to the structure of the model and assumptions.	P6 line 235, lines 298-305; Supplementary Section S.2 p6/line 241
Characterising heterogeneity	21	If applicable, report differences in costs, outcomes, or cost- 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.	n/a
Discussion			
Study findings, limitations, generalisability, and	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	n7/line 250
current knowledge		current knowledge.	p7/line 250
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.	p8/line 305
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.	p8/line 309

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

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