Item **Reported on page** Section/item Recommendation No No/ line No Title and abstract Identify the study as an economic evaluation or use more specific Title 1 terms such as "cost-effectiveness analysis", and describe the page 1 / line 1 interventions compared. Provide a structured summary of objectives, perspective, setting, 2 methods (including study design and inputs), results (including base Abstract page 5 / line 64 case and uncertainty analyses), and conclusions. Introduction Provide an explicit statement of the broader context for the study. page 8 / line 105 Background and 3 Present the study question and its relevance for health policy or objectives page 11 / line 152 practice decisions. Methods Target population and Describe characteristics of the base case population and subgroups 4 page 12 / line 165 subgroups analysed, including why they were chosen. State relevant aspects of the system(s) in which the decision(s) page 9/ line 133 5 Setting and location need(s) to be made. page 10/ line 143 Describe the perspective of the study and relate this to the costs being Study perspective 6 page 12 / line 158 evaluated. Describe the interventions or strategies being compared and state 7 Comparators page 14 / line 204 why they were chosen. State the time horizon(s) over which costs and consequences are Time horizon 8 page 12 / line 163 being evaluated and say why appropriate. Report the choice of discount rate(s) used for costs and outcomes and Discount rate 9 page 18/ line 263 say why appropriate. Choice of health Describe what outcomes were used as the measure(s) of benefit in the 10 page 16/ line 244 evaluation and their relevance for the type of analysis performed. outcomes Single study-based estimates: Describe fully the design features of the single effectiveness study and why the single study was a page 14 / line 211 11a sufficient source of clinical effectiveness data. Measurement of effectiveness Synthesis-based estimates: Describe fully the methods used for identification of included studies and synthesis of clinical 11b page 14 / line 199 effectiveness data. Measurement and NA: Published data valuation of If applicable, describe the population and methods used to elicit were extracted from 12 preference based preferences for outcomes. the literatures. outcomes

Consolidated Health Economic Evaluation Reporting Standards (CHEERS) Checklist—Items to include when reporting economic evaluations of health interventions.

Section/item	Item No	Recommendation	Reported on page No/ line No
Estimating resources	13a	Single study-based economic evaluation: 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.	NA: This is a model- based study
and 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.	page 16 / line 233
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.	page 16 / line 242 page 18/ line 261
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.	page 12 / line 159
Assumptions	16	Describe all structural or other assumptions underpinning the decision-analytical model.	page 12 / line 172
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.	page 14 / line 195 page 17 /line 249
Results			
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 1 & Table 2
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 applicable, report incremental cost-effectiveness ratios.	page 19 / line 275 Table 3
Characterising uncertainty	20a	Single study-based economic evaluation: Describe the effects of sampling uncertainty for the estimated incremental cost and incremental effectiveness parameters, together with the impact of methodological assumptions (such as discount rate, study perspective).	NA
	20b	Model-based economic evaluation: Describe the effects on the results of uncertainty for all input parameters, and uncertainty related to the structure of the model and assumptions.	page 19/ line 284, Figure 2 page 20 / line 299 Table 4, Figure 3

Section/item	Item No	Recommendation	Reported on page No/ line No
	21	If applicable, report differences in costs, outcomes, or cost-	page 19 / line 278,
Characterising		effectiveness that can be explained by variations between subgroups	
heterogeneity		of patients with different baseline characteristics or other observed	Table 3
		variability in effects that are not reducible by more information	
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.	Key findings: page 22/ line 316 generalisability: page 25/ line 372 limitation: Page 27/ line 402
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 3 / line 45
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 29 / line 431 page 3 /line 54

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