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](http://www.ispor.org/TaskForces/EconomicPubGuidelines.asp)

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

| Section/item          | Item No | Recommendation                                                                                                                                                                                                 | Reported on Page Number/Line Number | Reported on Section/Paragraph       |
|-----------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|
| **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, Line 3                     | Full Title on Title Page           |
| 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 46-66                | Abstract, Paragraphs 1-4           |
| **Introduction**      |         |                                                                                                                                                                                                              |                                    |                                    |
| Background and        | 3       | Provide an explicit statement of the broader context for the study. Present the study question and its relevance for health policy or practice decisions.                                                            | Page 4, Lines 103-128              | Introduction, Paragraph 1-2        |
| objectives            |         |                                                                                                                                                                                                              |                                    |                                    |
| **Methods**           |         |                                                                                                                                                                                                              |                                    |                                    |
| Target population     | 4       | Describe characteristics of the base case population and subgroups analysed, including why they were chosen.                                                                                                  | Page 5, Lines 138-141              | Model Design, Paragraph 1          |
| and subgroups         |         |                                                                                                                                                                                                              |                                    |                                    |
| Setting and location  | 5       | State relevant aspects of the system(s) in which the decision(s) need(s) to be made.                                                                                                                        | Page 5, Lines 133-149; Page 7-8, Lines 182-186 | Management Strategies; Parameter Estimates and Costs, Paragraph 1 |
| Study perspective     | 6       | Describe the perspective of the study and relate this to the costs being evaluated.                                                                                                                          | Page 7-8, Lines 197-204             | Costs, Paragraph 1                 |
| Comparators           | 7       | Describe the interventions or strategies being compared and state why they were chosen.                                                                                                                        | Page 5-7, Lines 145-165            | Management Strategies              |
| Time horizon          | 8       | State the time horizon(s) over which costs and consequences are being evaluated and say why appropriate.                                                                                                     | Page 5, Lines 142-143              | Model Design, Paragraph 1          |
| Discount rate         | 9       | Report the choice of discount rate(s) used for costs and outcomes and say why appropriate.                                                                                                                   | Page 8, Line 204 & 209             | Costs, Par. 1; Utilities Par.      |
| Choice of health      | 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 6, Lines 168-169; 177-179     | Outcomes Paragraph 1              |
| outcomes              |         |                                                                                                                                                                                                              |                                    |                                    |
| Section | Description | Notes |
|---------|-------------|-------|
| 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. | N/A. Study was model-based |
| | **11b** Synthesis-based estimates: Describe fully the methods used for identification of included studies and synthesis of clinical effectiveness data. | Page 7, Lines 182-192, Parameter Estimates and Model Assumptions |
| Measurement and valuation of preference based outcomes | **12** If applicable, describe the population and methods used to elicit preferences for outcomes. | N/A. We used already published data regarding patient outcomes such as health state utility values to inform our model. |
| Estimating resources and costs | **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. | N/A. Study was model-based |
| | **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. | Table 1; Pages 7-8, Lines 182-209, Parameter Estimates and Model Assumptions; Costs; Utilities |
| 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 7-8, Lines 198-204, Costs, Paragraph 1 |
| 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 5, Lines 133-138, Model Design, Paragraph 1 |
| Assumptions | **16** Describe all structural or other assumptions underpinning the decision-analytical model. | Page 7, Lines 182-195, Parameter Estimates and Model Assumptions |
| 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 7, Lines 187-192; Page 8, Lines 212-219, Parameter Estimates and Model Assumptions, Paragraph 2; Sensitivity Analyses |
| Results | **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, Page 19 & 20; Page 8, Lines 216-219, Parameter Estimates and Model Assumptions, Paragraph 1; Sensitivity Analyses |
| 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 9, Lines 222-229; Table 2; Page 20, Results, Paragraph 1 |
| 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). | N/A. Study was model-based |
|----------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
|                            | 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 9-10, Lines 236-248, Results, Paragraphs 3-4 |
| 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. In our model, data on cancer risk and H.p prevalence were corresponding to general |

**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 10, Lines 251-267, Page 11-13, Lines 275-337, Discussion, Paragraphs 1-5 |

**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 14, Line 349, Acknowledgements, Funding |
| 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 14, Line 354-356, Footnote, Ethical Statement |

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

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*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.*