



## 12 questions to help you make sense of economic evaluations

### How to use this appraisal tool

Three broad issues need to be considered when appraising an economic evaluation study:

- Are the results of the study valid? (Section A)
- What are the results? (Section B)
- Will the results help locally? (Section C)

The 12 questions on the following pages are designed to help you think about these issues systematically. The first two questions are screening questions and can be answered quickly. If the answer to both is “yes”, it is worth proceeding with the remaining questions.

There is some degree of overlap between the questions, you are asked to record a “yes”, “no” or “can’t tell” to most of the questions. A number of italicised prompts are given after each question. These are designed to remind you why the question is important. Record your reasons for your answers in the spaces provided.

These checklists were designed to be used as educational pedagogic tools, as part of a workshop setting, therefore we do not suggest a scoring system. The 12 questions were adapted from: Drummond MF, Stoddart GL, Torrance GW. *Methods for the economic evaluation of health care programmes*. Oxford: Oxford University Press, 1987, and piloted with health care practitioners.

For each new checklist a group of experts were assembled to develop and pilot the checklist and the workshop format with which it would be used. Over the years overall adjustments have been made to the format, but a recent survey of checklist users reiterated that the basic format continues to be useful and appropriate.

**Referencing: we recommend using the Harvard style citation, i.e.:**

**Critical Appraisal Skills Programme (2017). CASP (insert name of checklist i.e. Economic Evaluation) Checklist. [online] Available at: *URL*. Accessed: *Date Accessed*.**

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## (A) Is the economic evaluation valid?

### Screening Questions

1. Was a well-defined question posed?

Yes  Can't tell  No

HINT: Is it clear what the authors are trying to achieve?

- What is the perspective?
- How many options are compared?
- Are both costs and consequences considered?
- What is the time horizon?

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2. Was a comprehensive description of the competing alternatives given?

Yes  Can't tell  No

HINT: Is there a clear decision tree (or similar given):

- Can you tell who did what, to whom, where and how often?

## Is it worth continuing?



### Detailed questions

3. Does the paper provide evidence that the programme would be effective (i.e. would the programme do more good than harm)?

Yes  Can't tell  No

HINT: Consider:

- if an RCT or systematic review was used; if not consider how strong the evidence was

(Economic evaluations frequently have to integrate different types of knowledge stemming from different study designs)

**4. Were the effects of the intervention identified, measured and valued appropriately?**  Yes  Can't tell  No

HINT: Effects can be measured in natural units (e.g. years of life) or more complex units (e.g. years adjusted for quality of life such as QALYs) or monetary equivalents of the benefit gained (e.g. \$).

## **(B) How were consequences and costs assessed and compared?**

**5. Were all important and relevant resources required and health outcome costs for each alternative identified, measured in appropriate units and valued credibly?**  Yes  Can't tell  No

HINT: Identified?

- Remember the perspective being taken

HINT: Measured accurately in appropriate units prior to evaluation?

- Appropriate units may be hours of nursing time, Number of physician visits, years-of-life gained etc.

HINT: Valued credibly?

- Are the values realistic?
- How have they been derived?
- Have opportunity costs been considered?

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**6. Were costs and consequences adjusted for different times at which they occurred (discounting)?**  Yes  Can't tell  No

## 7. What were the results of the evaluation?

HINT: Consider

- What is the bottom line?
- What units were used (e.g. cost/life year gained, Cost/QALY, net benefit)?

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8. Was an incremental analysis of the consequences and cost of alternatives performed?

Yes

Can't tell

No

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9. Was an adequate sensitivity analysis performed?

Yes

Can't tell

No

HINT: Consider

- If all the main areas of uncertainty were considered by changing the estimate of the variable *and*
- looking at how this would change the result of the economic evaluation

## (C) Will the results help in purchasing for local people?

10. Is the programme likely to be equally effective in your context or setting?

Yes  Can't tell  No

HINT: Consider whether

- the patients covered by the review could be sufficiently different to your population to cause concern
- your local setting is likely to differ much from that of the review

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11. Are the costs translatable to your setting?

Yes  Can't tell  No

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12. Is it worth doing in your setting?

Yes  Can't tell  No