



CRITICAL APPRAISAL SKILLS PROGRAMME making sense of evidence about clinical effectiveness

CASP's 11 questions to help you make sense of a trial

General comments

• Three broad issues need to be considered when appraising a trial:

Are the results of the trial valid?

What are the results?

Will the results help locally?

The 11 questions on the following pages are designed to help you think about these issues systematically.

- The first three questions are screening questions and can be answered quickly. If the answer to all three is "yes", it is worth proceeding with the remaining questions.
- There is a fair degree of overlap between several of the questions.
- You are asked to record a "yes", "no" or "can't tell" to most of the questions.
- A number of italicised hints are given after each question. These are designed to remind you why the question is important.
- The 11 questions were adapted from Guyatt GH, Sackett DL, Cook DJ, Users' guides to the medical literature. II. How to use an article about therapy or prevention. *JAMA* 1993; **270**: 2598-2601and **271**: 59-63, by the Critical Appraisal Skills Programme in Oxford (CASP).

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A/ Are the results of the trial valid?

Screening Questions

	Did the trial address a clear question?	Yes	Can't tell	No
	 population was studied ointervention was given comparator was given outcomes were measured and when? 			
2	Was the assignment of patients to treatments randomised?	Yes	Can't tell ☐	No
3	Were all of the patients who entered the trial properly accounted for at its conclusion	Yes	Can't tell	No
	 was follow up complete? were patients analysed in the groups to which they were randomised? 			

Detailed Questions

4	Were patients, health workers and study personnel 'blind' to treatment?	Yes	Can't tell □	No
	 were the patients were the health workers were the study personnel 			
5	 • In terms of other factors that might effect the outcome such as age, sex, social class 	Yes	Can't tell ☐	No
6	Aside from the experimental intervention, were the groups treated equally?	Yes 🗀	Can't tell	No

B/ What are the results?

7 How large was the treatment effect?	8 How precise re the estimates of the treatment effect?
Look at the result for each of the outcomes measured	What are the confidence limits or P-values for each estimate?

C/ Will the results help locally?

9 Can the results be applied to the local population? Consider whether there good reasons to think that the patients covered by the trial may be importantly different from your own	Yes	Can't tell	No
10 Were all clinically important outcomes considered? If not, does this affect the decision?	Yes	Can't tell	No
11 Are the benefits worth the harms and costs? This is unlikely to be addressed by the trial. But what do you think?	Yes	Can't tell ☐	No