

RAPID CRITICAL APPRAISAL OF A CASE CONTROL STUDY

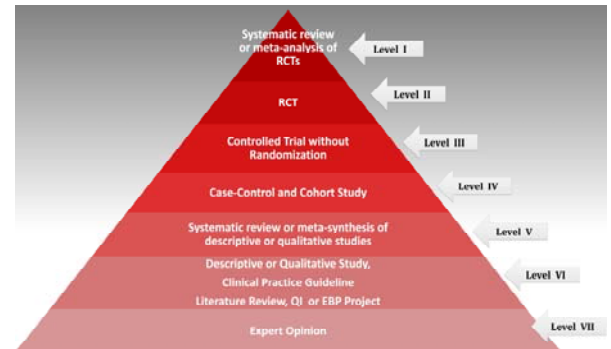
PROJECT DESCRIPTION/LEVEL OF STUDY

Project title:

Date:

Reviewer(s) name(s):

PICOT Question:



Article citation (APA):

Indicate the level of the study you are appraising:

Recommendation for article inclusion in the body of evidence to answer your question:

GENERAL DESCRIPTION OF STUDY

OVERVIEW

- 1. Purpose of study, including research question(s) or hypotheses:**
- 2. Design/Method:**
- 3. Sample:**
- 4. Setting:**
- 5. Data Collection:**

VALIDITY: Are the results of this study valid?

1. Were the study methods appropriate for the question?

Yes No Unknown

- Were the study methods clearly described (e.g. setting, sample population)? Yes No
- Were the instruments clearly described? Yes No
- Were the interventions clearly described? Yes No

2. How were the cases obtained? How many cases were included?

3. Were appropriate controls selected?

Yes No Unknown

- How many controls were included?

4. Was the number of controls 2x the number of cases?

Yes No Unknown

5. Were all outcomes clearly described?

Yes No Unknown

6. Was there freedom from conflict of interest?

Yes No Unknown

- Sponsor/funding agency
- Investigators

7. Was the date range of the cited literature current?

Yes No Unknown

- What date ranges were included? _____ to _____
 - If older literature was included, why was it included?

RELIABILITY: Are these valid study results important?

8. Did the study have a sufficiently large sample size?

Yes No Unknown

- Was a power analysis conducted? Yes No
- Did the sample size achieve or exceed the power analysis requirement? Yes No
- Did each subgroup also have sufficient sample size? Yes No

9. What were the main results of the case control study?

- Statistical Significance (p value) _____
- Confidence Interval and/or Standard Deviations _____
- How precise was the intervention/treatment?
 - Narrow? Wide? _____
- Effect size _____

10. Were the results clinically significant?

Yes No Unknown

- Were the following reported: NNT, NNH, OR, RR? Yes No

11. Were potential confounders identified?

Yes No Unknown

- Were the potential confounders discussed in relationship to the results? Yes No

12. Were adverse events identified?

Yes No Unknown

13. Were safety concerns including risk/benefits described?

Yes No Unknown

APPLICABILITY/GENERALIZABILITY: Can I apply these valid, important study results?

14. Can the results be applied to my population of interest? Yes No Unknown

- Is the treatment feasible in my care setting? Yes No
- Do the outcomes apply to my population of interest? Yes No
- Are the likely benefits worth the potential harm and costs? Yes No
- Were the subjects/participants in this study similar to my population of interest? Yes No
- Were all clinically important outcomes considered? Yes No

15. Will you include the article/study in your practice decision to make a difference in outcomes? Yes No Unknown

- If yes, why would you do this & how would you do this?
- If no, why would you not include the results to make a difference?

STRENGTH OF STUDY

Level of study: I, II, III, IV, V, VI, VII *(Select one)*

Quality of study: High | Medium | Low *(Select one)*

STRENGTH = LEVEL + QUALITY

What is the strength of the study?

What is your recommendation for article inclusion in the body of evidence to answer your question?

- Include this article in the body of evidence (place article on evaluation & synthesis tables)
- Do NOT include this article in the body of evidence

Additional Comments: