

# RAPID CRITICAL APPRAISAL OF A COHORT STUDY

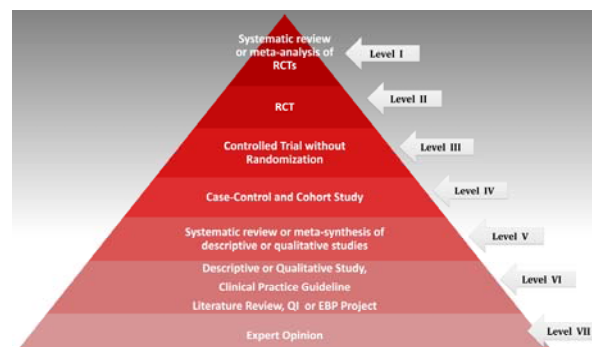
## PROJECT DESCRIPTION/LEVEL OF STUDY

**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:

## QUALITY OF STUDY

### 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. Was there a representative and well defined sample of participants at a similar point in the course of the disease, event, etc.?**

Yes  No  Unknown

**3. Were instruments used to measure the outcomes valid and reliable?**

Yes  No  Unknown

- Were the instruments tested to be valid and reliable?  Yes  No
- What statistic was reported and what was the finding? (Cronbach's alpha/Other?)

**4. Were all appropriate predictor variables (potential confounders/exposures) and interventions clearly described?**

Yes  No  Unknown

**5. Were objective and unbiased outcome criteria used?**

Yes  No  Unknown

**6. Were all outcomes clearly described?**

Yes  No  Unknown

- 7. Was the follow-up process described and complete?**  Yes  No  Unknown
- Was the follow-up long enough to fully study the effects of the intervention?  Yes  No
  - What was the rate of attrition?

*(Note: If greater than 20% were lost to follow-up, bias may be of greater concern)*

- 8. Was there freedom from conflict of interest?**  Yes  No  Unknown
- Sponsor/funding agency
  - Investigators

- 9. 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?**

- 10. 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

- 11. What were the main results of the cohort study?**
- Statistical Significance (*p* value) \_\_\_\_\_
  - Confidence Interval and/or Standard Deviations \_\_\_\_\_
  - How precise was the intervention/treatment?
    - Narrow? Wide? \_\_\_\_\_
  - Effect size \_\_\_\_\_

- 12. Were the results clinically significant?**  Yes  No  Unknown
- Were the following reported: NNT, NNH, OR, RR?  Yes  No

**13. Were potential confounders identified?**

Yes  No  Unknown

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

**14. Were adverse events identified?**

Yes  No  Unknown

**15. Were safety concerns including risk/benefits described?**

Yes  No  Unknown

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

**16. 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

**17. 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:**

