

Critical Review Form for Research – Clinical Research

Overview

Citation:

People (Participants):

Intervention:

Comparison Group:

Outcome:

What question does the study answer?

Validity

1. Was the assignment of participants randomized?
2. Were all participants who entered the trial accounted for at the conclusion?
 - a. Was follow-up complete?
 - b. Were patients analyzed in the group to which they were randomized?
3. Were patients, health care workers, and study personnel “blind” to treatment?
4. Were the groups similar at the start of the trial?
5. Aside for the experimental intervention, were groups treated equally?

Results

1. How large was the treatment effect? (Calculate RR, RRR, ARR, and NNT)
 - a. P values?
2. How precise was the treatment effect (how wide was the confidence interval)?

Clinical Relevance

1. Can the results be applied to my patients?
2. Were all of the clinically important outcomes considered?
3. Are the likely benefits worth the potential harms and costs?

Formula Reminders

X= Risk with tx= $a/(a+b)$

Y=Risk without tx= $c/(c+d)$

Relative Risk (RR) = X/Y

Absolute Risk Reduction (ARR) = $Y-X$

Number Needed to Treat (NNT)= $1/ARR$

Relative Risk Reduction (RRR)= $1-(X/Y)*100\%$

	Outcome	
	Yes	No
Treated	a	b
Untreated	c	d