
CRITICAL APPRAISAL OF SCIENTIFIC LITERATURE

WELCOME TO WEEK SIX



LEARNING OBJECTIVES TO REVIEW AND UNDERSTAND HOW TO CRITICALLY APPRAISE SCIENTIFIC LITERATURE

The structure of scientific articles is always the same.

Title Page

Summary

Keywords

Main text



DON'T FORGET (IRMAD)
INTRODUCTION
RESULTS
METHOD
DISCUSSION



INTRODUCTION OR ABSTRACT

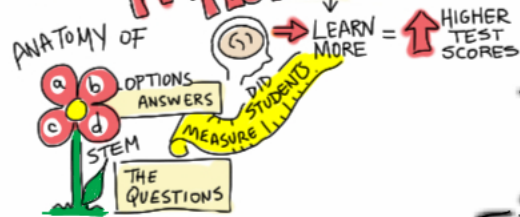


METHODS

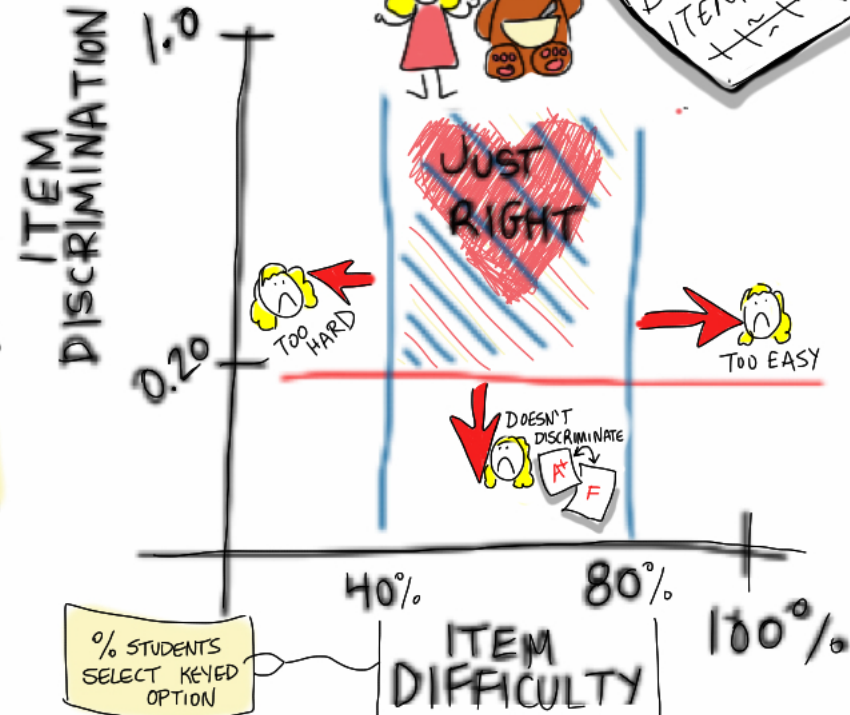
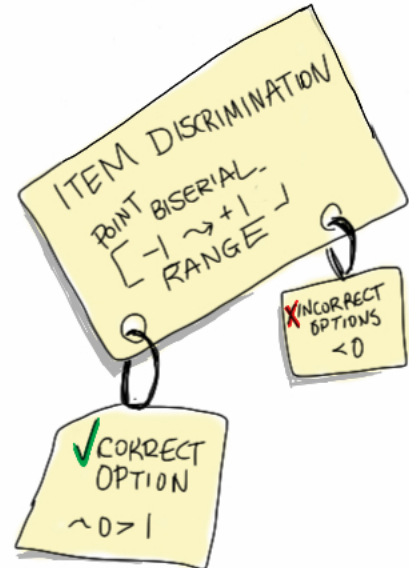
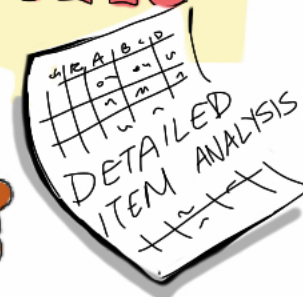
RESULTS

INTERPRETING RESULTS

MULTIPLE CHOICE TEST



OF YOUR SCANTRON REPORT
DR. DAVID DIBATTISTA NOV 9, 2012
CENTRE FOR PEDAGOGICAL INNOVATION



Critical Questions

- Does the study pose scientifically interesting questions?
- Are statements and numerical data supported by literature citations?
- Is the topic of the study medically relevant?
- Is the study innovative?
- Does the study investigate the predefined study goals?
- Is the study design apt to address the aims and/or hypotheses?
- Did practical difficulties (e.g. in recruitment or loss to follow-up) lead to major compromises in study implementation compared with the study protocol?
- Was the number of missing values too large to permit meaningful analysis?
- Was the number of cases too small and thus the statistical power of the study too low?
- Was the course of the study poorly or inadequately monitored (missing values, confounding, time infringements)?
- Do the data support the authors' conclusions?
- Do the authors and/or the sponsor of the study have irreconcilable financial or ideological conflicts of interest?

1. Is it Valid?
2. Is it relevant?
3. Is it reliable?
4. How good is the quality of the research?



CONCLUSIONS





VANCOVER STYLE GUIDE

- <https://guides.lib.purdue.edu/BMEQual/VancouverStyle>

REFERENCES

- <https://www.icmje.org/recommendations/browse/manuscript-preparation/preparing-for-submission.html>



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