

Αξιολόγηση της αξιοπιστίας των στατιστικών αποτελεσμάτων στην ιατρική έρευνα
ΠΜΣ "Μυοσκελετική Ογκολογία: Διάγνωση-Θεραπεία-Έρευνα"
Ιατρική Σχολή Εθνικού και Καποδιστριακού Πανεπιστημίου Αθηνών

Evaluating Treatment Impact in Medicine

Ten hints!

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Title and Abstract

Is the title concise and accurately reflects the study's topic? Does the abstract provide a clear summary of the research question, methods, and main findings?



Research Question

Relevance

Does the research paper address a relevant and well-defined research question or hypothesis?

Study Design

Design

Does the paper clearly state the study design (e.g., RCT, PSM, systematic review)? Is the study design appropriate for the research question?

Methods

Are the methods and data collection procedures well-documented and transparent? It describes how patients were recruited, assigned to treatment groups, and outlines the surgical procedures conducted.

Sample Size and Bias

Sample Size

Is the sample size adequate to detect meaningful differences or associations? Was a power analysis conducted to justify the sample size?

Bias and Confounding

Does the paper discuss potential sources of bias, and were steps taken to minimize them? Were confounding variables addressed in the study design or statistical analysis?

Results and Discussion

Results

Are the results presented clearly, with appropriate tables, figures, or charts? Do the results address the research question and include relevant statistical information (p-values, confidence intervals, effect sizes)?

Discussion

Does the discussion section interpret the results appropriately and in the context of existing literature? Are study limitations acknowledged, and are implications for clinical practice or future research discussed?

Ethical Considerations

Ethical Approval

Does the paper mention ethical approval and informed consent for human subjects research? Were ethical considerations related to animal research addressed?

References and Peer Review

References

Are the references comprehensive and include key studies relevant to the research topic? Are the references from reputable sources and journals?

Peer Review and Journal Credibility

Was the paper published in a peer-reviewed journal with a good reputation in the field?
Has the paper received citations and recognition from other researchers?

Relevance and External Validity

Relevance to Patient Population

Is the study population similar to the patients encountered in your clinical practice? Does the research have practical relevance to your field of medicine?

External Validity

Can the study's findings be applied to different settings or populations beyond the study sample?

Funding and Conflicts of Interest

Funding Source

Is the funding source disclosed, and are there any potential conflicts of interest among the authors?

Clinical Significance

Clinical Relevance

Consider the clinical significance of the results. Are the findings relevant to patient care and decision-making?