

Bias risk

Bias risk, also known as **risk of bias**, refers to the potential for systematic errors or flaws in the design, conduct, or analysis of a study that can affect the validity and reliability of the results. Bias risk can arise from a variety of factors, including:

Selection bias: Occurs when there is a systematic difference in the characteristics of the study participants or groups that could affect the outcome of interest.

Performance bias: Occurs when there is a systematic difference in how interventions are carried out or the degree to which participants adhere to them.

Detection bias: Occurs when there is a systematic difference in how outcomes are assessed or measured between the intervention and control groups.

Attrition bias: Occurs when there is a systematic difference in the loss of study participants or incomplete data between the intervention and control groups.

Reporting bias: Occurs when there is a systematic difference in the reporting of outcomes between the intervention and control groups.

Bias risk can impact the internal validity of a study, which refers to the extent to which the results accurately reflect the true relationship between the exposure and outcome being studied. Bias risk can also affect the external validity, which refers to the generalizability of the study results to other populations or settings.

To minimize bias risk, studies should be designed and conducted in a way that minimizes the potential for systematic errors or flaws. This may include randomization, blinding, appropriate sample size calculation, and transparent reporting of methods and results. Assessing bias risk is an important part of the critical appraisal of studies, and is often used in systematic reviews and meta-analyses to evaluate the quality of evidence.

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