

# Bias Assessment Tool

A **bias assessment tool** is a standardized **instrument** used to evaluate the **bias risk** in individual studies included in a **systematic review** or **meta-analysis**.

These **tools** help reviewers judge the internal validity of studies and assess how much trust can be placed in their results.

## Purpose

- Identify potential sources of systematic error
- Grade the **quality** and **credibility** of included studies
- Support transparent, evidence-based conclusions

## Commonly Used Tools

Tool	Target Study Design	Description
<a href="#">Cochrane RoB 1</a>	Randomized Controlled Trials (RCTs)	Assesses seven domains of bias (e.g., selection, performance, detection)
<a href="#">Cochrane RoB 2</a>	RCTs (updated version)	Focuses on bias at the outcome level; structured judgments with signalling questions
<a href="#">ROBINS-I</a>	Non-randomized studies	Evaluates bias across seven domains before and after intervention
<a href="#">Newcastle-Ottawa Scale</a>	Observational studies	Assesses selection, comparability, and outcome/exposure
<a href="#">AMSTAR 2</a>	Systematic reviews	Appraisal of reviews' methodological quality, especially in healthcare

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