**Meta-Analysis**

The review and empirical synthesis of quantitative results from research (published and/or unpublished), generally composed of the following processes:

1. Problem formulation
	* A clear purpose for the review: characterize state-of-knowledge, aggregate power, influence policy, refine future research…
	* Formulating a precise question: *Y* = *f*(*Treatment*, *Covariates*) + ε
2. Literature review and collection
	* Identification of existing research on topic
	* Clarify research literature searching techniques
	* Address fit between conceptualization of the phenomena and how it is operationalized by researchers in practice
	* Inclusion criteria
3. Coding research (coding manual and forms)
	* Characteristics of the publication
	* Characteristics of the sample and population
	* Characteristics of the research design and methods
	* Statistical outcomes and effect sizes
4. Data reliability and management
	* Methodological adequacy
	* Reliability coding
	* Database structure
5. Data analysis
	* Summary statistics
	* Overall effect-size analysis, confidence intervals
	* Moderator analyses
	* Weighted least squares, mixed-effects modeling
6. Reporting
	* Address methods of the synthesis
	* Address substantive and methodological issues
	* Summarize statistical synthesis results and modeling results
	* Address issues related to precision and certainty
	* Assess gaps in research and generalizability issues

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