

“Flavors” of Meta-Analysis

There are different types of meta-analytic studies:

- **Conventional meta-analysis:** which involves the synthesis of summary statistics and effect sizes (means, SD, correlations, risk reductions, ...) as they are reported in the published literature.
- **Individual Participants Data (IPD) meta-analysis:** original data of all studies is collected, combined into one big data set (“data harmonization”) and then pooled.

Advantages	Disadvantages
<ul style="list-style-type: none">▪ Statistical methods can be applied in the same way across all studies.▪ Can use participant-level information (e.g., an individual person’s age, gender, symptom severity) which may play a role as an important moderators of the results. This is not possible with conventional meta-analysis.	<ul style="list-style-type: none">▪ Obtaining original data from all relevant studies is much more challenging than extracting the published results.▪ In biomedical research, IPD can only be obtained from approx. 64% of the eligible studies (Riley, Simmonds, and Look 2007).

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- **Network meta-analysis:** a special type of meta-analytic model that allows to three or more studies by combining direct and indirect comparisons of different treatments within a single analysis.

