



# Cochrane Methods IPD Meta-analysis

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### Highlight:

Published an [opinion piece](#) on the current data sharing environment and its impact on systematic reviews and meta-analyses based on individual participant data meta-analysis



#### Research and development

- Indicated [retrieval barriers](#) and explored retrieval bias in IPD network meta-analysis.
- Developed a new reporting checklist for prediction model studies that are based on clustered datasets ([TRIPOD-Cluster](#)).
- Reviewing and developing methods for [multiple patient-level covariates and interactions](#) in pairwise and network IPD meta-analysis.



#### Best practice and guidance

- Reviewed current practice and provided guidance on dealing with non-linear effects and effect modification at the participant-level in IPD meta-analysis ([Part 1](#) and [Part 2](#)).
- Demonstrated [how IPD can improve network meta-analysis](#).
- Developing a series of papers on “when to collect IPD”, “assessing risk of bias with IPD” and “smarter analysis of IPD” to expand on topics covered in [Individual Participant Data Meta-Analysis: A Handbook for Healthcare Research](#).



#### Methods implementation

- Implemented IPD meta-analysis methods in e.g. [stroke](#), [breast cancer](#), [bladder cancer](#), [prostate cancer](#), and [Alzheimer's dementia](#).
- At the [2023 Cochrane Colloquium](#), giving a workshop on accessing IPD from data sharing platforms and oral presentations on data sharing experiences; power calculations for planning IPD meta-analysis; maximising the value of IPD for analysis; consolidating tools for the assessment of risk of bias for IPD meta-analysis; and whether aggregate should be used when IPD are not available.