



## 2025

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### Highlight:

**Provided recommendations for the conduct of random-effects meta-analysis in RevMan and delivered online training for statistical editors and statisticians**



#### Research and development

- Finalised recommendations for new random-effects meta-analysis methods RevMan: The Hartung-Knapp-Sidik-Jonkman (HKSJ) method for calculating the confidence interval of the summary effect; the restricted maximum likelihood (REML) method (default option) for estimating the heterogeneity parameter; the Q-profile method for calculating the confidence interval of the heterogeneity estimate; calculation of the I-square statistic using a formula based on the heterogeneity estimate; methods for calculating prediction intervals.



#### Best practice and guidance

- Provide detailed guidance in the 2024 update of [Chapter 10](#) in the *Cochrane Intervention Handbook* on the newly available random-effects meta-analysis options in RevMan.
- Cochrane Training Webinars: [Webinar series on statistical analysis in systematic reviews](#); Two webinars on the new random-effects methods in RevMan ([1](#), [2](#)); Introduction webinars on [diagnostic test accuracy network meta-analysis](#) and [meta-analysis of interrupted time series studies with continuous outcomes](#); [Identifying who benefits most from treatments: estimating interactions and subgroup effects in aggregate data meta-analysis](#)
- Contributed to the 2<sup>nd</sup> Global Evidence Summit in September 2024 with 1) workshops on analysis and meta-analysis of interrupted time series studies with continuous outcomes (JM, LK); PRISMA 2020 adherence assessment form (JM); Performing meta-analysis in the presence of rare events (TE); and 2) oral presentations on a checklist to help peer reviewers detect errors in meta-analyses in systematic reviews of interventions (LK); Update on PRISMA guidelines for NMA (AV)



#### Methods implementation

- Provided support to review authors, Cochrane Review Groups and the Methods Support Unit by contributing expertise as peer reviewers and advisers.