



# 2020 Key Outputs

**Convenors:** Anna Chaimani, Joanne McKenzie, Mark Simmonds, Catrin Tudur Smith, Areti Angeliki Veroniki

**Coordinator:** Kerry Dwan



## 2020 Highlight:

Developing recommendations for additional meta-analysis methods to be implemented in RevMan on heterogeneity estimators, and the confidence interval methods for the overall effect size



### Research and development

- An empirical study comparing the impact of using different statistical methods for random effects meta-analysis applied to meta-analyses in the Cochrane reviews. Specifically, examining the impact of using different heterogeneity variance estimators (Paule-Manel, Restricted Maximum Likelihood, and DerSimonian and Laird) and different methods for confidence interval calculation for the summary effect estimate (Hartung-Knapp-Sidik-Jonkman, Wald-type)



### Best practice and guidance

- Lead on and contribute to several chapters of the Cochrane Handbook and co-developing Cochrane standard author training materials
- [The Kilim plot: a tool for visualizing network meta-analysis results for multiple outcomes](#)
- [Synthesis without meta-analysis \(SWiM\) in systematic reviews: reporting guideline](#)



### Methods implementation

- Webinar series in collaboration with Cochrane Training: [Meta-analysis of joint longitudinal and time-to-event data](#)
- [Identifying effective components of complex interventions: Component network meta-analysis](#)
- [Identifying publication bias in meta-analyses of continuous outcomes](#)