





 <p>Cochrane Methods Adverse Effects</p>	<ul style="list-style-type: none"> Junqueira DR, Zorzela L, Golder S, Loke Y, Moher D, Ioannidis J, Vohra S. Reporting of harms in clinical trials: overview of the adherence to CONSORT Harms 2004. 26th Virtual Cochrane Colloquium, 2-6 December 2019. https://youtu.be/-PYn3NGqQLQ
 <p>Cochrane Methods Bias</p>	<ul style="list-style-type: none"> Contributing to the Cochrane Handbook for Systematic Reviews of Interventions (Version 6, 2019): Convenors of the Bias Methods Group were Senior Scientific and Associate Scientific Editors Chapter 7: Considering bias and conflicts of interest among the included studies Chapter 8: Assessing risk of bias in a randomized trial Chapter 13: Assessing risk of bias due to missing results in a synthesis Chapter 23: Including variants on randomized trials Chapter 25: Assessing risk of bias in a non-randomized study <p>Key publications</p> <ul style="list-style-type: none"> Berthelsen DB, Ginnerup-Nielsen E, Juhl C, Lund H, Henriksen M, Hróbjartsson A, et al. Controversy and Debate on Meta-epidemiology. Paper 1: Treatment effect sizes vary in randomized trials depending on the type of outcome measure. <i>J Clin Epidemiol</i> 2020;123:27-38 Boutron I. Spin in Scientific Publications: A Frequent Detrimental Research Practice. <i>Ann Emerg Med</i> 2020;75(3):432-34 Haring R, Ghannad M, Bertizzolo L, Page MJ. No evidence found for an association between trial characteristics and treatment effects in randomized trials of testosterone therapy in men: a meta-epidemiological study. <i>J Clin Epidemiol</i> 2020;122:12-19 Lundh A, Rasmussen K, Østengaard L, Boutron I, Stewart LS, Hróbjartsson A. Systematic review finds that appraisal tools for medical research studies address conflicts of interest superficially. <i>Journal of Clinical Epidemiology</i> 2020;120:104-155 McGuinness LA, Higgins JPT. Risk-Of-Bias VISualization (robvis): an R package and Shiny web app for visualizing risk-of-bias assessments. <i>Research Synthesis Methods</i>. Published online 26 April 2020. Moustgaard H, Clayton GL, Jones HE, Boutron I, Jørgensen L, Laursen DRT, et al. Impact of blinding on estimated treatment effects in randomised clinical trials: meta-epidemiological study. <i>BMJ</i> 2020;368:l6802 Moustgaard H, Jones HE, Savović J, Clayton GL, Sterne JAC, Higgins JPT, et al. Ten questions to consider when interpreting results of a meta-epidemiological study-the MetaBLIND study as a case. <i>Res Synth Methods</i> 2020;11(2):260-274 Naci H, Davis C, Savović J, Higgins JPT, Sterne JAC, Gyawali B, et al. Design characteristics, risk of bias, and reporting of randomised controlled trials supporting European Medicines Agency approvals of cancer drugs, 2014-2016: cross-sectional analysis. <i>BMJ</i> 2019; 366: l5221.



	<ul style="list-style-type: none"> • Page MJ. Controversy and Debate on Meta-epidemiology. Paper 4: Confounding and other concerns in meta-epidemiological studies of bias. <i>J Clin Epidemiol</i> 2020;123:133-134 • Rhodes KM, Savovic J, Elbers R, Jones HE, Higgins JPT, Sterne JAC, et al. Adjusting trial results for biases in meta-analysis: combining data-based evidence on bias with detailed trial assessment. <i>Journal of the Royal Statistical Society Series A</i> 2020; 183: 193-209. • Turner RM, Rhodes KM, Jones HE, Higgins JPT, Haskins JA, Whiting PF, et al. Agreement was moderate between data-based and opinion-based assessments of biases affecting randomized trials within meta-analyses. <i>J Clin Epidemiol</i> 2020;125:16-25
 <p>Cochrane Methods Comparing Multiple Interventions</p>	<ul style="list-style-type: none"> • Pollock M, Fernandes RM, Pieper D, Tricco AC, Gates M, Gates A, Hartling L. Preferred reporting items for overviews of reviews (PRIOR): a protocol for development of a reporting guideline for overviews of reviews of healthcare interventions. <i>Syst Rev</i> 2019 Dec 23;8(1):335. • Chaimani A. Conduct and reporting of individual participant data network meta-analyses need improvement. <i>BMC Med</i> 2020;18 (1), 1-2 • Luo Y, Chaimani A, Furukawa TA, Kataoka Y, Ogawa Y, Cipriani A, Salanti G. Visualizing the evolution of evidence: Cumulative network meta-analyses of new generation antidepressants in the last 40 years. <i>Res Synth Meth</i> 2020. • Nikolakopoulou A, Higgins JPT, Papakonstantinou T, Chaimani A, Del Giovane C, Egger M, Salanti G. CINeMA: an approach for assessing confidence in the results of a network meta-analysis <i>Plos Med</i> 2020;17(4):e1003082
 <p>Cochrane Methods Economics</p>	<ul style="list-style-type: none"> • Chapter 20 of the new version of the Handbook (Version 6, 2019) contains guidance on incorporating economic evidence into Cochrane Reviews, including sections on the formulation of the review, as well as identification, appraisal and synthesis and interpretation of the evidence
 <p>Cochrane Methods Equity</p>	<ul style="list-style-type: none"> • Authored a chapter on equity and specific populations in the updated Cochrane Handbook v6.0 (2019, Chapter 16). • Developed a Cochrane Interactive Learning module to provide guidance for including equity in systematic reviews (Module 11). The development of the training module was funded by Cochrane. • Based on the material in the Handbook chapter and training module, we developed slides on health equity for Standard Author Training for the Cochrane Trainers' Network.



- The Cochrane GRADEing Methods Group continues to make high impact contributions, many of the GRADE Working Group articles are highly cited.
- In addition to advancing the assessment of risk of bias and the certainty of evidence in the context of non-randomized studies, network meta-analysis, prognosis and tests, one of the key articles that informs Cochrane interpretation of effects and certainty (also included in the Cochrane Handbook) is: Santesso N, Glenton C, Dahm P, Garner P, Akl EA, Alper B, et al. GRADE guidelines 26: informative statements to communicate the findings of systematic reviews of interventions. *J Clin Epidemiol.* 2020;119:126-35.
- We have contributed two chapters to the Cochrane Handbook for Interventions:
 - 1) Schünemann HJ VG, Higgins JPT, Santesso N, Deeks JJ, Glasziou P, Akl EA, Guyatt GH. Chapter 15: Interpreting results and drawing conclusions. In: Higgins JPT TJ, Chandler J, Cumpston M, Li T, Page MJ, Welch VA, ed. *Cochrane Handbook for Systematic Reviews of Interventions version 6.0 (updated 2019)*: Cochrane; 2019.
 - 2) Schünemann HJ HJ, Vist GE, Glasziou P, Akl E, Skoetz N, Guyatt GH. Chapter 14: Completing Summary of findings tables and grading the certainty of evidence. In: Higgins JPT TJ, Chandler J, Cumpston M, Li T, Page MJ, Welch V, ed. *Cochrane Handbook for Systematic Reviews of Interventions Version 6.0 (updated 2019)*. Available from <https://training.cochrane.org/handbooks>: The Cochrane Collaboration, 2019.
- Other sections of the Cochrane Handbook addressing the GRADE approach:
 - 11.5 Evaluating confidence in the results of a network meta-analysis
 - 24.7.2 Evaluating the strength of evidence provided by reviews that include non-randomized studies
- We have published the following GRADE guidance and concept articles in the last year:
- Schunemann HJ, Mustafa RA, Brozek J, Steingart KR, Leeflang M, Murad MH, et al. GRADE guidelines: 21 part 1. Study design, risk of bias, and indirectness in rating the certainty across a body of evidence for test accuracy. *J Clin Epidemiol.* 2020;122:129-41.
- Schunemann HJ, Mustafa RA, Brozek J, Steingart KR, Leeflang M, Murad MH, et al. GRADE guidelines: 21 part 2. Test accuracy: inconsistency, imprecision, publication bias, and other domains for rating the certainty of evidence and presenting it in evidence profiles and summary of findings tables. *J Clin Epidemiol.* 2020;122:142
- Schunemann HJ, Mustafa RA, Brozek J, Santesso N, Bossuyt PM, Steingart KR, et al. GRADE guidelines: 22. The GRADE approach for tests and strategies-from test accuracy to patient-important outcomes and recommendations. *J Clin Epidemiol.* 2019;111:69-82.
- Santesso N, Glenton C, Dahm P, Garner P, Akl EA, Alper B, et al. GRADE guidelines 26: informative statements to communicate the findings of systematic reviews of interventions. *J Clin Epidemiol.* 2020;119:126-35. Skoetz N, Goldkuhle M, van Dalen EC, Akl EA, Trivella M, Mustafa RA, et al. GRADE guidelines 27: how to


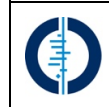
calculate absolute effects for time-to-event outcomes in summary of findings tables and Evidence Profiles. *J Clin Epidemiol.* 2020;118:124-31.


- Foroutan F, Guyatt G, Zuk V, Vandvik PO, Alba AC, Mustafa R, et al. GRADE Guidelines 28: Use of GRADE for the assessment of evidence about prognostic factors: rating certainty in identification of groups of patients with different absolute risks. *J Clin Epidemiol.* 2020;121:62-70.
- Goldkuhle M, Bender R, Akl EA, van Dalen EC, Nevitt S, Mustafa RA, et al. GRADE guidelines: 29. Rating the certainty in time-to-event outcomes - Study limitations due to censoring of participants with missing data in intervention studies. *J Clin Epidemiol.* 2020.
- Brozek JL, Canelo-Aybar C, Akl EA, Bowen JM, Bucher J, Chiu WA, et al. GRADE Guidelines 30: The GRADE Approach to Assessing the Certainty of Modelled Evidence - an Overview in the Context of Health Decision-making. *J Clin Epidemiol.* 2020.
- Brignardello-Petersen R, Mustafa RA, Siemieniuk RAC, Murad MH, Agoritsas T, Izcovich A, et al. GRADE approach to rate the certainty from a network meta-analysis: addressing incoherence. *J Clin Epidemiol.* 2019;108:77-85.
- Brignardello-Petersen R, Murad MH, Walter SD, McLeod S, Carrasco-Labra A, Rochweg B, et al. GRADE approach to rate the certainty from a network meta-analysis: avoiding spurious judgments of imprecision in sparse networks. *J Clin Epidemiol.* 2019;105:60-7.



- Specifically relevant to COVID-19 we utilized GRADE methods in numerous reviews and articles that are listed here or can be accessed through the link:
- Akl EA, Morgan RL, Rooney AA, Beverly B, Katikireddi SV, Agarwal A, et al. Developing trustworthy recommendations as part of an urgent response (1-2 weeks): a GRADE concept paper GRADE Rapid Guidelines project group. *J Clin Epidemiol.* 2020.
- GRADE Working Group publications related to COVID-19:
<https://www.dropbox.com/sh/8fe84yz609on0uu/AAAKsaVAXhoErGqwBlitKO2tfa?dl=0>
- Also see: <https://training.cochrane.org/grade-approach>
- In addition, we cite GRADE methods in high impact systematic reviews that are published outside of the Cochrane Library. We also have advanced the field of conducting systematic reviews and developing guidance for rating the certainty for evidence that does not focus on intervention effects, tests or prognosis by assessing evidence for values and utilities.
- E.g. GRADE guidelines: 19. Assessing the certainty of evidence in the importance of outcomes or values and preferences - Risk of bias and indirectness
- GRADE guidelines: 20. Assessing the certainty of evidence in the importance of outcomes or values and preferences - inconsistency, imprecision, and other domains

	<ul style="list-style-type: none"> • Etxeandia-Ikobaltzeta I, Zhang Y, Brundisini F, Florez ID, Wiercioch W, Nieuwlaat R, et al. Patient values and preferences regarding VTE disease: a systematic review to inform American Society of Hematology guidelines. <i>Blood Adv.</i> 2020;4(5):953-68.
 <p>Cochrane Methods IPD Meta-analysis</p>	<p>Ongoing</p> <ul style="list-style-type: none"> • Writing and editing a book on meta-analysis using IPD (Wiley), which aims to be a highly practical guide to the relevant concepts and methods. (Richard Riley, Jayne Tierney and Lesley Stewart) • Developing manuscript to describe and provide guidance on managing IPDMA projects. (Brooke Levis, Brett Thombs, Andrea Benedetti - DEPRESSD Project)
 <p>Cochrane Methods Information Retrieval</p>	<p>Cochrane Handbook</p> <ul style="list-style-type: none"> • Publication of revised Searching for and Selecting Studies chapter of the Cochrane Handbook (July 2019), co-authored by a number of members of the IRMG. Lefebvre C, Glanville J, Briscoe S, Littlewood A, Marshall C, Metzendorf M-I, Noel-Storr A, Rader T, Shokraneh F, Thomas J, Wieland LS. Chapter 4: Searching for and selecting studies. In: Higgins JPT, Thomas J, Chandler J, Cumpston M, Li T, Page MJ, Welch VA (editors). <i>Cochrane Handbook for Systematic Reviews of Interventions version 6.0 (updated July 2019)</i>. Cochrane, 2019. Available from www.training.cochrane.org/handbook. https://training.cochrane.org/handbook/current/chapter-04 • Publication of a Technical Supplement and an Appendix of Resources (December 2019). These two additional sections are available online only and complement the material in the main text by providing further detail together with names and URLs of resources. Lefebvre C, Glanville J, Briscoe S, Littlewood A, Marshall C, Metzendorf M-I, Noel-Storr A, Rader T, Shokraneh F, Thomas J, Wieland LS. Technical Supplement to Chapter 4: Searching for and selecting studies. In: Higgins JPT, Thomas J, Chandler J, Cumpston MS, Li T, Page MJ, Welch VA (eds). <i>Cochrane Handbook for Systematic Reviews of Interventions Version 6</i>. Cochrane, 2019. Available from: www.training.cochrane.org/handbook and https://training.cochrane.org/handbook/version-6/chapter-4-tech-suppl • The Appendix of Resources is available at this link: https://training.cochrane.org/handbook/supplementary-materials <p>Jessie McGowan has been involved in reporting guidance publications:</p> <ul style="list-style-type: none"> • McGowan J, Straus S, Moher D, Langlois EV, O'Brien KK, Horsley T et al. Reporting scoping reviews-PRISMA ScR extension. <i>J Clin Epidemiol.</i> 2020 Jul;123:177-179.



	<ul style="list-style-type: none"> • Petkovic J, Jull J, Yoganathan M, Dewidar O, Baird S, Grimshaw JM, Johansson KA, Kristjansson E, McGowan J et al. Reporting of health equity considerations in cluster and individually randomized trials. <i>Trials</i>. 2020 Apr 3;21(1):308. doi: 10.1186/s13063-020-4223-5. • Tricco AC, Garritty CM, Boulos L, Lockwood C, Wilson M, McGowan J et al. Rapid review methods more challenging during COVID-19: commentary with a focus on 8 knowledge synthesis steps. <i>J Clin Epidemiol</i>. 2020 Jun 29; S0895-4356(20)30616-8. • Carol Lefebvre has been involved in an initiative involving a number of international medical library associations (the Australian Library and Information Association/Health Libraries Australia (ALIA-HLA), the Canadian Health Libraries Association (CHLA/ABSC), the European Association for Health Information and Libraries (EAHIL), and the US Medical Library Association (MLA)) to try to improve peer reviewing of search methods and search strategies in systematic reviews published in journals. This initiative has resulted in an open letter being sent to the International Committee of Medical Journal Editors (ICMJE). This letter has also been published in a number of medical library association journals, calling for librarians / information specialists to be invited to peer review systematic search methods: Iverson S, Della Seta M, Lefebvre C, Ritchie A, Traditi L, Baliozian K. International health library associations urge the International Committee of Medical Journal Editors (ICMJE) to seek information specialists as peer reviewers for knowledge synthesis publications. <i>JEAHIL</i>. 2020;16(2):58-61.
 <p>Cochrane Methods NRS for Interventions</p>	<ul style="list-style-type: none"> • Collaboration with the Editorial and Methods Department to develop a protocol template for systematic reviews of interventions, to improve the review authors' adherence to MECIR and Handbook guidance when writing a protocol. • Collaboration with the GRADE Methods Group to harmonise guidance about when NRSI should be included in a systematic review of an intervention. The NRSIMG have contributed to a manuscript (to be submitted to <i>J Clin Epi</i>), the status of which is currently unknown. • Collaboration on RoB v2 (see Research section) • Collaboration on an extension of RoB v2 for cluster RCTs (see Research section) • Collaboration on ROBINS-I v2 (ongoing)
 <p>Cochrane Methods Patient Reported Outcomes</p>	<ul style="list-style-type: none"> • Development of principles for selection of a MID (Minimal Important Difference) estimate when multiple estimates for a PROM exist. This guidance will help clinical trialists, systematic review authors and guideline developers select trustworthy applicable MIDS for interpretation of PROM data. • Development of a MID Reporting guideline is in the planning and development stages.

 <p>Cochrane Methods Priority Setting</p>	<ul style="list-style-type: none"> • Worked with WHO to develop a chapter on priority setting methods in the WHO Guidance on Research Methods for Health Emergency and Disaster Risk Management (EDRM). The chapter will be published on WHO Kobe centre website open access on 10 Sep. https://extranet.who.int/kobe_centre/en • Contributed to the Cochrane Handbook (v6.0, 2019) • Contributed to priority setting guidance of knowledge translation group.
 <p>Cochrane Methods Prognosis</p>	<ul style="list-style-type: none"> • Reviews of prognosis studies are becoming increasingly popular within Cochrane. We developed new material to support the implementation within Cochrane, e.g. peer review templates for protocols and full reviews, a full workflow from title registration up to publication of the full review, and a FAQ for authors and editors. Furthermore, we continuously update our TRF, protocol and review template. Example data extraction files and example meta-analysis scripts are open source available. All tools are easily accessible via our website https://methods.cochrane.org/prognosis/welcome. • Initiated the setting up (lay out) of a Cochrane Handbook for Reviews of Prognosis studies and assembled an author team. Though broadly supported by the PMG community, Cochrane decided it too early to financially support the writing of the entire handbook. To be pursued further and either seek external funding or write the first few basic chapters with a small extra funding from Cochrane. • Publication of two reviews of prognosis studies. Finalised first Cochrane review of prognostic models, to be published autumn 2020. Published three protocols. In total, we now have five published reviews, 12 published protocols, 18 titles registered and 1 title in preparation. The increase in number of ongoing reviews compared to previous year is huge: from 21 last year to 31 this year. This results in capacity challenges for the PMG. All title proposals, protocols and full reviews are being peer reviewed by an independent peer reviewer. Also, many reviews are co-authored by a member of the PMG. This way, we make sure the quality of the published reviews is high (especially as they serve as an important example for future reviews). In addition, editors and authors are trained ‘in the field’ on methods for performing prognosis reviews. • Published review by Aldin et al. contains a lot of detail on choices made during the review process and risk of bias assessment and can therefore serve as an example for future reviews. <p>Publications: Cochrane prognosis reviews</p> <ul style="list-style-type: none"> • Aldin A, Umlauff L, Estcourt LJ, et al. Interim PET-results for prognosis in adults with Hodgkin lymphoma: a systematic review and meta-analysis of prognostic factor studies. <i>Cochrane Database Syst Rev.</i> 2020;1(1):CD012643. Published 2020 Jan 13. doi:10.1002/14651858.CD012643.pub3 • Hayden JA, Wilson MN, Riley RD, Iles R, Pincus T, Ogilvie R. Individual recovery expectations and prognosis of outcomes in non-specific low back pain: prognostic factor review. <i>Cochrane Database Syst Rev.</i> 2019;2019(11):CD011284. Published 2019 Nov 25. doi:10.1002/14651858.CD011284.pub2

	<ul style="list-style-type: none"> • Kreuzberger N, Damen JAAG, Trivella M, Estcourt LJ, Aldin A, Umlauff L, Vazquez-Montes MDLA, Wolff R, Moons KGM, Monsef I, Foroutan F, Kreuzer K, Skoetz N. <u>Prognostic models for newly-diagnosed chronic lymphocytic leukaemia in adults: a systematic review and meta-analysis</u>. Cochrane Database Syst Rev. 2020. <p>Publications: Cochrane prognosis review protocols</p> <ul style="list-style-type: none"> • On Seker BI, Reeve K, Havla J, Burns J, Gosteli MA, Lutterotti A, Schippling S, Mansmann U, Held U. Prognostic models for predicting clinical disease progression, worsening and activity in people with multiple sclerosis. Cochrane Database of Systematic Reviews 2020, Issue 5. Art. No.: CD013606. DOI: 10.1002/14651858.CD013606. • Quinn TJ, Myint PK, McCleery J, Taylor-Rowan M, Stewart C. Anticholinergic burden (prognostic factor) for prediction of dementia or cognitive decline in older adults with no known cognitive syndrome. Cochrane Database of Systematic Reviews 2020, Issue 2. Art. No.: CD013540. DOI: 10.1002/14651858.CD013540. • Moriarty AS, Meader N, Gilbody S, Chew-Graham CA, Churchill R, Ali S, Phillips RS, Riley RD, McMillan D. Prognostic models for predicting relapse or recurrence of depression. Cochrane Database of Systematic Reviews 2019, Issue 12. Art. No.: CD013491. DOI: 10.1002/14651858.CD013491.
 <p>Cochrane Methods Prospective Meta-analysis</p>	<ul style="list-style-type: none"> • Seidler AL, Hunter K, Cheyne S, Ghersi D, Berlin J, Askie L. A guide to prospective meta-analysis. BMJ 2019;367:I5342 • Thomas J, Askie LM, Berlin JA, Elliott JH, Ghersi D, Simmonds M, Takwoingi Y, Tierney JF, Higgins HPT. Chapter 22: Prospective approaches to accumulating evidence. In: Higgins JPT, Thomas J, Chandler J, Cumpston M, Li T, Page MJ, Welch VA (editors). Cochrane Handbook for Systematic Reviews of Interventions version 6.0 (updated July 2019). Cochrane, 2019. Available from www.training.cochrane.org/handbook • Seidler AL, Duley L, Katheria A, De Paco Matallana C, Dempsey E, Rabe H, Kattwinkel J, Mercer J, Josephsen J, Fairchild K, Andersson O, Hosono S, Sundaram V, Datta V, El-Naggar W, Tarnow-Mordi W, Debray TPA, Hooper S, Kluckow M, Polglase G, Davis P, Montgomery A, Hunter KE, Barba A, Simes J & Askie L on behalf of the iCOMP collaboration. Systematic review and network meta-analysis with individual participant data on Cord Management at Preterm Birth (iCOMP): study protocol. BMJ Open 2020;10:e034595. doi: 10.1136/bmjopen-2019-03459 • Askie LM, Espinoza D, Martin A, Daniels LA, Mihrshahi S, Taylor R, Wen LM, Campbell K, Hesketh KD, Rissel C, Taylor B, Magarey A, Seidler AL, Hunter KE, Baur LA. Interventions commenced by early infancy to prevent childhood obesity - the EPOCH Collaboration: an individual participant data prospective meta-analysis of four randomised controlled trials. Pediatric Obesity. 2020:e12618. https://doi.org/10.1111/ijpo.12618

	<ul style="list-style-type: none"> Seidler AL, Hunter KE, Chartres N, Askie LM. Associations between industry involvement and study characteristics at the time of trial registration in biomedical research. PLoS ONE 14(9): e0222117. https://doi.org/10.1371/journal.pone.0222117 Tan A, Jiang I, Askie L, Hunter K, Simes RJ, Seidler AL. Prevalence of trial registration varies by study characteristics and risk of bias. J Clin Epi. 2019;113:64-74. Duan R, Boland MR, Liu Z, Liu Y, Chang HH, Xu H, Chu H, Schmid CH, Forrest CB, Holmes JH, Schuemie MJ, Berlin JA, Moore JH, Chen Y. Learning from electronic health records across multiple sites: A communication-efficient and privacy-preserving distributed algorithm. Journal of the American Medical Informatics Association, 0(0), 2019, 1–10. (Online ahead of print) Duan R, Luo C, Schuemie MJ, Tong J, Liang JC, Chang HH, Boland MR, Bian J, Xu H, Holmes JH, Forrest CB, Morton SC, Berlin JA, Moore JH, Mahoney KB, Chen Y. Learning from local to global: An efficient distributed algorithm for modeling time-to-event data. Journal of the American Medical Informatics Association (accepted for publication).
 <p>Cochrane Methods Qualitative and Implementation</p>	<ul style="list-style-type: none"> Continued to promote the BMJ Global Health series in 2019-2020 to further define and explain the methods for the synthesis of complex interventions. Cochrane Handbook chapter on qualitative evidence synthesis was published (2019). James Thomas is a Handbook Editor. Supported several Cochrane authors when undertaking their qualitative evidence synthesis. Undertaken reviews outside of Cochrane to develop and test methods of interest. Booth has supported the Cochrane rapid review efforts during Covid 19. Jane Noyes has supported the Centres for Disease Control and Prevention in the production of reviews and guidelines for a Covid 19 context.
 <p>Cochrane Methods Rapid Reviews</p>	<p>Publications RRMG’s contributions to developing methods guidance within Cochrane</p> <ul style="list-style-type: none"> Cochrane RRs – Interim Methods Guidance: Garritty C, Gartlehner G, Kamel C, King VJ, Nussbaumer-Streit B, Stevens A, Hamel C, Affengruber L. Cochrane Rapid Reviews. Interim Guidance from the Cochrane Rapid Reviews Methods Group. March 2020. https://methods.cochrane.org/rapidreviews/cochrane-rr-methods <p>Additional publications that showcase the RRMG’s contributions to RR methods research:</p> <p>Submitted/published</p> <ul style="list-style-type: none"> Garritty C, Hamel C, Nussbaumer-Streit B, Gartlehner G, King V, Kamel C, Stevens A, Affengruber L. Cochrane Rapid Reviews Methods Group offers evidence-informed guidance to conduct rapid reviews (Journal of Clinical Epidemiology (October 2020)).

- Hamel C, Michaud A, Thuku M, Skidmore B, Stevens A, Nussbaumer-Streit B, Garritty C. Defining rapid reviews: a systematic scoping review and thematic analysis of definitions and defining characteristics of rapid reviews. *Journal of Clinical Epidemiology* (Journal of Clinical Epidemiology (October 2020)).
- Garritty C, Hersi M, Hamel C, Stevens A, Monfaredi Z, Butler C, Tricco AC, Hartling L, Stewart LA, Welsh V, Thavorn K, Cheng W, Moher D. Assessing the format and content of journal published and non-journal published rapid review reports: a comparative study. PLoS ONE.
- Garritty C, Hamel C, Hersi M, Butler C, Monfaredi Z, Stevens A, Nussbaumer-Streit B, Cheng W, Moher D. Assessing how information is packaged in rapid reviews for policymakers and other stakeholders: a cross-sectional study. *Health Research Policy and Systems.*
- Tricco AC, Garritty CM, Boulos L, Lockwood C, Wilson M, McGowan J, et al. Rapid review methods more challenging during COVID-19: Commentary with a focus on 8 knowledge synthesis steps. *J Clin Epidemiol.* 2020 Jun 29. DOI: 10.1016/j.jclinepi.2020.06.029
- Hamel C, Michaud A, Thuku M, Affengruber L, Stevens A, Nussbaumer-Streit B, Garritty C. Few evaluative studies exist examining rapid review methodology across stages of conduct: a systematic scoping review. *J Clin Epi.* June 26, 2020. DOI: <https://doi.org/10.1016/j.jclinepi.2020.06.027>
- Nussbaumer-Streit B, Mayr V, Dobrescu AI, Chapman A, Persad E, Klerings I, et al. Quarantine alone or in combination with other public health measures to control COVID-19: a rapid review. *Cochrane Database Syst Rev.* 2020 08;4:CD013574.
- Nussbaumer-Streit B, Klerings I, Dobrescu AI, Persad E, Stevens A, Garritty C, et al. Excluding non-English publications from evidence-syntheses did not change conclusions: a meta-epidemiological study. *J Clin Epidemiol.* 2020 Feb. DOI: <https://doi.org/10.1016/j.jclinepi.2019.10.011>
- Gartlehner G, Affengruber L, Titscher V, Noel-Storr A, Dooley G, Ballarini N, et al. Single-reviewer abstract screening missed 13 percent of relevant studies: a crowd-based, randomized controlled trial. *J Clin Epidemiol* 2020;121:20–8. <https://doi.org/10.1016/j.jclinepi.2020.01.005>
- Gartlehner G, Wagner G, Lux L, Affengruber L, Dobrescu A, Kaminski-Hartenthaler A, et al. Assessing the accuracy of machine-assisted abstract screening with DistillerAI: a user study. *Syst Rev.* 2019 15;8(1):277.
- Gartlehner G, Wagner G, Lux L, Affengruber L, Dobrescu A, Kaminski-Hartenthaler A, et al. Assessing the Accuracy of Machine-Assisted Abstract Screening With DistillerAI: A User Study [Internet]. Rockville (MD): Agency for Healthcare Research and Quality (US); 2019. (AHRQ Methods for Effective Health Care). Available from: <http://www.ncbi.nlm.nih.gov/books/NBK550282/>
- Affengruber, L., Wagner, G., Waffenschmidt, S. et al. Combining abbreviated literature searches with single-reviewer screening: three case studies of rapid reviews. *Syst Rev* 9, 162 (2020). <https://doi.org/10.1186/s13643-020-01413-7>

	<ul style="list-style-type: none"> • Arevalo-Rodriguez I, Steingart KR, Tricco AC, et al. Current methods for development of rapid reviews about diagnostic tests: an international survey. <i>BMC Medical Research Methodology</i>. 2020 May;20(1):115. DOI: 10.1186/s12874-020-01004-z. • Arevalo-Rodriguez I, Moreno-Nunez P, Nussbaumer-Streit B, et al. Rapid reviews of medical tests used many similar methods to systematic reviews but key items were rarely reported: a scoping review. <i>J Clin Epidemiol</i>. 2019;116:98-105. doi:10.1016/j.jclinepi.2019.09.004 • Nussbaumer-Streit B, Klerings I, Gartlehner G. Reply to letter to the editor "Lessons from COVID-19 to future evidence synthesis efforts: first living search strategy and out of date scientific publishing and indexing industry". <i>J Clin Epidemiol</i>. 2020;123:173-174. doi:10.1016/j.jclinepi.2020.04.013
	<ul style="list-style-type: none"> • Publications: PRISMA-DTA series - Salameh JP, Bossuyt PM, McGrath TA, et al. Preferred reporting items for systematic review and meta-analysis of diagnostic test accuracy studies (PRISMA-DTA): explanation, elaboration, and checklist. <i>BMJ</i>. 2020;370:m2632. Published 2020 Aug 14. doi:10.1136/bmj.m2632 • Handbook: we contribute to the Cochrane DTA Handbook • Organise and participate in the DTA Editorial Team • Support development of RevMan DTA functionality
	<ul style="list-style-type: none"> • The Convenors contributed to and led several chapters of version 6 of the Cochrane Handbook, including Chapters 2, 3, 9, 11, 12 and 22. SMG Convenors, along with chapter authors, have been developing Cochrane standard author training materials for Chapters 2, 3, 9 and 12. <p>Key publications by Convenors:</p> <ul style="list-style-type: none"> • Metelli S, Chaimani A. Challenges in meta-analyses with observational studies. <i>Evid Based Ment Health</i>. 2020;23(2):83-87 • Vo TT, Porcher R, Chaimani A, Vansteelandt S. A novel approach for identifying and addressing case-mix heterogeneity in individual participant data meta-analysis <i>Res Synth Meth</i> 2019 Dec;10(4):582-596 • Seo M., Furukawa T., Veroniki A.A., Pillinger T., Tomlinson A., Salanti G., Cipriani A., Efthimiou O., The Kilim plot: a tool for visualizing network meta-analysis results for multiple outcomes, <i>Res. Synth. Method</i>; 2020, doi:10.1002/jrsm.1428 • Veroniki A.A., Ashoor H.M., Le S.P.C., Rios P., Stewart L.A., Clarke M., Mavridis D., Straus S.E., Tricco A.C. Retrieval of individual patient data depended on study characteristics: A randomised controlled trial. <i>J. Clin. Epidemiol</i>; 2019; 113:176-188. doi: 10.1016/j.jclinepi.2019.05.031

- Veroniki A.A., Bender R., Glasziou P., Straus S.E., Tricco A.C. The number needed to treat in pairwise and network meta-analysis and its graphical representation. *J. Clin. Epidemiol*; 2019; 111:11-22. doi: 10.1016/j.jclinepi.2019.03.007
- Law M., Alam N., Veroniki A.A., Yu Y., Jackson D., Two new approaches for the visualisation of models for network meta-analysis. *BMC Medical Research Methodology*; 2019; 18;19(1):61. doi: 10.1186/s12874-019-0689-9
- Langan D., Higgins J.P.T., Jackson D., Bowden J., Veroniki A.A., Kontopantelis E., Viechtbauer W., Simmonds M. A comparison of heterogeneity variance estimators in simulated random-effects meta-analyses. *Res. Synth. Method*; 2019; 10(1):83-98; doi: 10.1002/jrsm.1316
- Veroniki A.A., Jackson D., Viechtbauer W., Bender R., Bowden J., Knapp G., Kuss O., Higgins J.P.T., Langan D., Salanti G., Methods to calculate uncertainty in the estimated overall effect size from a random-effects meta-analysis. *Res. Synth. Method*; 2019; 10(1):23-43. doi: 10.1002/jrsm.1319
- Turner, S. L., A. Karahalios, A. B. Forbes, M. Taljaard, J. M. Grimshaw, E. Korevaar, A. C. Cheng, L. Bero and J. E. McKenzie (2020). Creating effective interrupted time series graphs: Review and recommendations. *Res Synth Methods*
- Campbell, M., J. E. McKenzie, A. Sowden, S. V. Katikireddi, S. E. Brennan, S. Ellis, J. Hartmann-Boyce, R. Ryan, S. Shepperd, J. Thomas, V. Welch and H. Thomson (2020). Synthesis without meta-analysis (SWiM) in systematic reviews: reporting guideline. *BMJ* 368: l6890.