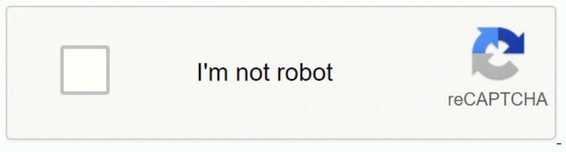

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Seminar: Systematic Review and Meta-Analysis Fernando Ferreira-Santos (FPCEUP) | ([Version 5][1]; Updated 2022-03-17) --------- ### Seminar materials and evaluation This OSF project contains supporting materials for my Seminars on Systematic Review/Systematic Research Synthesis and Meta-analysis. Below you will find an overview of the seminar and relevant information on the topic, including **instructions for installing software for the seminar**. You may access the **seminar materials** and **evaluation** (when applicable) in the private "Files" section by following the link provided in class. The instructions and deadlines for the evaluation are indicated in the document itself. Read carefully. ![Read carefully GIF][2] --------- ### Seminar overview **Title:** - Systematic review of the literature and meta-analysis in Psychology **Summary:** - In this seminar, we will discuss a) the typology of literature reviews and syntheses (e.g., systematic/non-systematic, narrative/quantitative) and the advantages of systematic reviews and meta-analyses; and b) the strength of empirical evidence as function of the quality of studies and respective methodological design. We will then focus on the statistical procedures for the estimation, meta-analytic combination, and analysis of the heterogeneity of effect sizes. These features will be complemented with practical exercises. **Core references:** - Cooper, H. (2016). *Research synthesis and meta-analysis: A step-by-step approach* (5th ed.). Thousand Oaks, CA: Sage. - Cooper, H., Hedges, L. V., & Valentine, J. C. (Eds.) (2019). *Handbook of research synthesis and meta-analysis* (3rd ed.). New York: Russell Sage Foundation --------- ### Free software for meta-analysis - **JASP** - JASP ("Just Another Statistical Package") is a user-friendly free open-source statistical analysis software. It includes a meta-analysis module. SPSS users will find many aspects of the interface familiar. - - Introductory Youtube video (in Portuguese): [Introdução ao JASP][3] - **R and metafor package** - R is a free open-source software environment for statistical computing and graphics. It is a powerful command-line analysis software with a vast library of statistical packages. - - Base R program with all functionalities but with only a very simple user interface. RStudio is recommended as a user interface instead. - - RStudio provides an integrated environment to use R with several helpful features. - There are numerous educational resources for learning about R and RStudio available online for free (e.g., - - metafor is one of the main meta-analysis packages for R (it is also what is used in JASP, under the hood). - - metaforGUI is a graphical user interface for the metafor package in R that allows you to run simple meta-analyses without coding and provides results outputs. In the meanwhile, JASP has included the meta-analysis module and you can do this using JASP as well. - **Others** - Meta-Essentials: ---------- #### Installing software for the seminar For the practical part of the seminar you will need: - A spreadsheet editor (like Microsoft Excel, Google Sheets, etc.) - JASP - How to install JASP: - Introductory Youtube video (in Portuguese): [Introdução ao JASP][4] (covers installation and software overview) - R and RStudio - Install R (base distribution): - Install RStudio Desktop (free): - Other things we will need (like installing required R packages) will be done during the seminar ---------- ### Additional resources: Below are a few references for topics that extend the seminar (not organized in any meaningful way; suggestions for additional references are welcome): - **Additional references** (beyond the Core references provided above): - Camilo, C., & Garrido, M. V. (2019). A revisão sistemática de literatura em psicologia: Desafios e orientações. *Análise Psicológica, 37*, 535–552. - Cohen, J. (1988). *Statistical power analysis for the Behavioral Sciences* (2nd ed.). Lawrence Erlebaum Associates. - Higgins, J. P. T., Thomas, J., Chandler, J., Cumpston, M., Li, T., Page, M. J., & Welch, V. A. (Eds.) (2019). *Cochrane Handbook for Systematic Reviews of Interventions version 6.0 (updated July 2019)*. Retgrieved from www.training.cochrane.org/handbook - Lakens, D. (2013). Calculating and reporting effect sizes to facilitate cumulative science: A practical primer for t-tests and ANOVAs. *Frontiers in Psychology, 4*. - Siddaway, A. P., Wood, A. M., & Hedges, L. V. (2019). How to do a systematic review: A best practice guide for conducting and reporting narrative reviews, meta-analyses, and meta-syntheses. *Annual Review of Psychology, 70*, 747–770. - **Resources on internal/mini meta-analysis**: - Goh, J. X., Hall, J. A., & Rosenthal, R. (2016). Mini meta-analysis of your own sudies: Some arguments on why and a primer on how. *Social and Personality Psychology Compass, 10*, 535–549, - Ueno, T., Fastrich, G. M., & Murayama, K. (2016). Meta-analysis to integrate effect sizes within an article: Possible misuse and Type I error inflation. *Journal of Experimental Psychology: General, 145*, 643-654. - **Scoping reviews**: - Colquhoun, H. L., Levac, D., O'Brien, K. K., Straus, S., Tricco, A. C., Perrier, L., Kastner, M., & Moher, D. (2014). Scoping reviews: Time for clarity in definition, methods, and reporting. *Journal of Clinical Epidemiology, 67*, 1291-1294. - Munn, Z., Peters, M. D. J., Stern, C., Tufanaru, C., McArthur, A., & Aromataris, E. (2018). Systematic review or scoping review? Guidance for authors when choosing between a systematic or scoping review approach. *BMC Medical Research Methodology, 18*, 143. - Pham, M. T., Rajić, A., Greig, J. D., Sargeant, J. M., Papadopoulos, A., & McEwen, S. A. (2014). A scoping review of scoping reviews: Advancing the approach and enhancing the consistency. *Research Synthesis Methods, 5*, 371–385. - **Moderately advanced methods paper on meta-analysis of correlated designs**: - Ferreira-Santos, F. (2018). Meta-analysis of correlated designs (repeated measures) in the context of neural responses to facial expressions of emotion. *SAGE Research Methods Cases*. - **Advanced methods paper on synthesizing multiple meta-analyses**: - Tang, L. L., Caudy, M., & Taxman, F. (2013). A statistical method for synthesizing meta-analyses. *Computational and Mathematical Methods in Medicine, 2013*, 732989. - [Resources for Learning (and Teaching) How to Conduct Meta-Analyses][5] - (brilliant shared GDoc by Gilad Feldman) - When you get tired of meta-analysing, try some math rock: @[youtube](Covet on Bandcamp :) - [1]: [2]: [3]: [4]: [5]: Home › Workshops and courses › Workshop on meta-analysis Cochrane Sweden is pleased to announce a 16-hour workshop on meta-analysis over 3 days. The workshop will take place on 26th, 27th and 28th of October and will be conducted over Zoom to open up the possibility of allowing more participants to join. We have invited three researchers and statisticians from different Cochrane Groups to guide the participants through basic steps in creating, interpreting and exploring a meta-analysis as well as going in to more advanced statistical methods related to meta-analysis. For the practical application and exercises with forest plots, we will use the free program RevMan5. The workshop will be conducted in English. Content (both lectures, discussions and group work): Estimating relative treatment effects Data extraction issues Performing and interpreting meta-analyses in RevMan5 Identifying and measuring heterogeneity and strategies for addressing heterogeneity Performing and interpreting sub-group analyses Advanced issues – generic inverse variance meta-analysis; using ordinal, counts and rates, time-to-event data Using calculator in RevMan 5 to its full capacity Random or fixed effect models Advanced issues - multi-arm studies, cluster-randomised, cross-over studies, non-randomized studies Imputing missing data, converting relative treatment effects Lecturers/facilitators: Chris Rose is a statistician at the Norwegian Institute of Public Health (Folkehelseinstituttet). He is a statistical editor for the Cochrane Effective Practice and Organisation of Care (EPOC) review group and supports its systematic reviewers around the world. He has a PhD in statistical modelling (University of Manchester) and holds Chartered Statistician status with the UK's Royal Statistical Society. Ana Jeroncic is a Statistical Editor at Cochrane Oral Health review group, and a Professor of Biostatistics and Research Methodology. She is a member of the Statistical Specialists Network of the European network for Health Technology Assessment and serves as a research methodology and statistical expert for the scientific advice at European Medicines Agency. Chris Cates is an Emeritus Reader at St George's, University of London and has previously worked as the co-ordinating editor of the Cochrane Airways Review Group and trainer at Cochrane UK. Chris has also worked in primary care as a GP in Hertfordshire for 23 years. You can explore his articles related to statistics within systematic reviews for free from www.nntonline.net. Participants: The workshop is mainly aimed at people doing systematic reviews that will be used in decision-making and who need additional knowledge and skills of how to create, use and evaluate meta-analyses, including interest in learning more advanced methods. Requirements: Knowledge about systematic review methodology according to the Cochrane Methodology (e.g PICO, Risk of Bias, GRADE etc.) Basic knowledge about statistics related to meta-analysis (e.g knowledge about forest plots and interpretation of results from forest plots) Have previously or are currently doing evidence syntheses using meta-analysis Be comfortable using Zoom. Dates: 26th of October will be in class from morning until approx 15.00 Swedish time (including lunch break). Afternoon open to home assignment. 27th of October will be dedicated to an individual home assignment (maximum of 4 hours). A small time slot during the day will be dedicated to asking questions from the facilitators related to the homework. 28th of October will be in class from morning until approx 15.00 Swedish time (including lunch break). A definitive schedule will be sent out closer to the workshop, but set aside the 26th and 28th as well as a few hours of 27th in your calendars. Fee: The fee for the workshop will be 3.000 SEK (additional VAT might apply for people participating outside Sweden). If admitted to the workshop, we will send out additional details for payment. Registration: The workshop is limited to approx 20 participants in order to be interactive and to facilitate questions. If the workshop is booked up very fast, we will have to limit the number of participants from the same institution. If that is the case, we will reach out to all in the same institution after the application time has ended to solve this. We do this in order to reach as many organizations and institutions as possible. You can register by going to this link and submitting your information. Please note that you will not receive a confirmation message when registering. We will reach out to you when the application is closed to confirm your registration. Workshop resources: RevMan 5, with the latest update. You can download it for free here. Cochrane Handbook. You can download it for free here. Zoom. You can download the Zoom-client here. Preparations: Before the course, you will need to do some limited preparations. They will be sent out when you are accepted to the workshop. Questions:

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