

Anna Chaimani, PhD

Curriculum Vitae, February 2023

PERSONAL INFORMATION

Date of Birth: 14 February 1986

Nationality: Greek

Address: Centre of Research in Epidemiology and Statistics (CRESS-U1153)
Hôpital Hôtel-Dieu, 1 place du Parvis Notre-Dame, 75004 Paris, France

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QUALIFICATIONS

2019: **Accreditation for supervising PhD candidates (Habilitation à Diriger des Recherches)**
Faculty of Medicine, Paris Descartes University, France

2014: **PhD in Biostatistics**
Department of Hygiene & Epidemiology, University of Ioannina School of Medicine, Greece
Thesis: "Investigating bias in network meta-analysis"
supervisor: Prof. Georgia Salanti

2011: **MSc in Biostatistics**
School of Medicine & Department of Mathematics, National University of Athens, Greece
(graduated with highest distinction)
Thesis: "Prognostic significance of EGFR gene copy number gain in NSCLC: a systematic review and meta-analysis"

2008: **BSc in Mathematics (hons. 4 years)**
Department of Mathematics, National University of Athens, Greece

Languages: fluent in Greek & English, good French, intermediate German

PROFESSIONAL EXPERIENCE

Current positions

01/2020 - present: **Leader of the Evidence Synthesis Group**
Centre of Research in Epidemiology and Statistics (CRESS-U1153), METHODS
Team

01/2020 - present: **Senior Research Scientist with tenure (Chargé de Recherche)**
National Institute of Health and Medical Research (Inserm), Université Paris Cité,
France

Previous positions

- 10/2016–12/2019: **Fixed-term Assistant Professor (Chaire d'Excellence) - Université Sorbonne Paris Cité**
Faculty of Medicine, Paris Descartes University, France
- 04/2016–06/2016: **Visiting Researcher funded by the Swiss National Foundation**
Institute of Social and Preventive Medicine, University of Bern, Switzerland
- 10/2015–11/2016: **Postdoctoral Research Associate in Biostatistics**
Department of Hygiene & Epidemiology, University of Ioannina School of Medicine, Greece
Working on the project "Optimizing therapy to prevent avoidable hospital admissions in the multimorbid elderly" [Horizon 2020 grant]
- 06/2014: **Visiting Researcher funded by the Methods Innovation Fund Program of the Cochrane Collaboration**
School of Social and Community Medicine, University of Bristol, UK
- 06/2014–09/2015: **Postdoctoral Research Associate in Biostatistics**
Department of Hygiene & Epidemiology, University of Ioannina School of Medicine, Greece
Working on the project "Missing outcome data in psychiatric trials & meta-analysis"
- 12/2010–05/2014: **Research Associate in Biostatistics**
Department of Hygiene & Epidemiology, University of Ioannina School of Medicine, Greece
Working on the projects "Integrating the multiple meta-analysis" [ERC Starting Grant] and "Methods for comparing multiple interventions in Cochrane intervention reviews and overviews" [Methods Innovation Fund Project]
- 01/2009–12/2009: **Research Assistant in Biostatistics**
Harokopion University, Athens, Greece

TEACHING ACTIVITIES

University teaching responsibilities

- **Responsible** for the modules on "Network Meta-analysis" (since 2016) and "Advanced Meta-analysis" (since 2019) in the Master of Public Health "*Comparative effectiveness research*", *Université Paris Cité, France*
- **Lecturer** in the MSc course "Methods for Conducting Systematic Reviews and Meta-Analyses", *Johns Hopkins Bloomberg School of Public Health, March 2019, Baltimore, US*
- **Teaching** undergraduate students in the course "Advanced Biostatistics" (since 2017), *Université Paris Cité, Paris, France*,
- **Lecturer** in the MSc course "Pain Management", *University of Ioannina, May 2014, Ioannina, Greece*
- **Lecturer** in the MSc course "Primary care", *Thessaly University, May 2012, Larissa, Greece*
- **Teaching** undergraduate students in the courses "Medical Mathematics and Biostatistics" and "Hygiene & Epidemiology", *University of Ioannina, 2011–2014, Ioannina, Greece*

International short courses and workshops

- Teaching a 3-day course on Network meta-analysis, *April 2023, Galway, Ireland*
- Organizing and teaching a 3-day course on Network meta-analysis, *May 2022, Biarritz, France*
- Organizing and teaching the 3-day course: "Network meta-analysis: from planning to publication", *December 2019, Paris, France*
- Teaching in the Epidemiology and Population Health Summer Institute at Columbia University the two-day seminars: "Network meta-analysis", "Meta-analysis of observational studies" and "Systematic Reviews", *annually between 2017-2020, New York, US*
- Teaching in the "GRADE workshop" organized by Hospital Alemão Oswaldo Cruz and Brazilian Ministry of Health, *April 2019, Brasilia, Brazil*
- Teaching in the three-day course "How to appraise, interpret and publish a network meta-analysis", *annually between 2014-2016, Oxford, UK*
- Organizing and teaching the workshop "Comparing multiple treatments with network meta-analysis", *presented at each annual Cochrane Colloquium, 2016-2020*
- Teaching in the two-day Parallel Course on Network Meta-Analysis of the Cochrane mid-year meeting, *May 2015, Athens, Greece*
- Teaching in the Swiss Epidemiology Winter School the three-day seminar "Indirect comparisons and network meta-analysis: Evidence synthesis with multiple treatments", *annually between 2014-2015, Wengen, Switzerland*
- Organizing and teaching the workshop "Accounting for missing outcome data in meta-analysis", *presented at each annual Cochrane Colloquium, 2014-2018*
- Organizing and teaching the workshop "Graphs to enhance understanding and improve interpretability of the evidence from network meta-analysis: a hands-on tutorial in Stata", *presented at each annual Cochrane Colloquium, 2013-2016*
- Teaching in the one-day pre-Colloquium workshop "Indirect comparisons and network meta-analysis in Cochrane Reviews", *October 2015, Vienna, Austria*
- Organizing and teaching the workshop "Introduction to meta-analysis 3: Dealing with Heterogeneity", *presented at each annual Cochrane Colloquium, 2011-2020*

SUPERVISION OF THESES & INTERNSHIPS

PhD candidates (all registered with the Doctoral School ED393 and Université Paris Cité)

Ongoing

1. Tianqi Yu, Public Health Statistician, Thesis starts in January 2023, "*Scalable knowledge translation tools for network meta-analysis*"
2. Kanella Panagiotopoulou, Mathematician, Thesis started in October 2022, "*Modelling departures from normality in network meta-analysis*"
3. Chérifa Cheurfa, Anaesthesiologist, defense expected in June 2023, "*The contribution of observational studies to meta-analysis*"
4. Florie Brion Bouvier, Statistician, Thesis started in December 2020, "*Obtaining individualized treatment effects using individual participant data meta-analysis*" (co-supervision with R. Porcher)
5. Mauricia Davidson, Epidemiologist, Thesis started in November 2021, "*Integration of various types of information in living systematic reviews*" (co-supervision with I. Boutron)

Completed

6. Theodoros Evrenoglou, Mathematician, defended in November 2022, *“Dealing with sparse data in network meta-analysis”*

MSc students

1. Kanella Panagiotopoulou, Mathematician, Master of Public Health “Comparative Effectiveness Research”, Université Paris Cité, Paris, France: *Meta-analysis models relaxing the between-study normality assumption*, 2022 (6 months)
2. Sara Abboud, MD, Master 2 Statistique, modélisation et science des données en santé, Sorbonne Université, Paris, France: *Association between selective outcome reporting bias and treatment effect estimates in trials with binary outcomes: a meta-epidemiological study*, 2021 (6 months) – co-supervision with I. Boutron
3. Maurice Zanetsie, Statistician, Master of Public Health “Comparative Effectiveness Research”, Université Paris Descartes, Paris, France: *Evaluation of the impact of missing outcome data imputations in meta-analyses of aggregate data: a simulation study*, 2019 (6 months)
4. Eirini Pagkalidou, Statistician, Master of Public Health “Comparative Effectiveness Research”, Université Paris Descartes, Paris, France: *Empirical evaluation of the impact of including inactive intervention arms in randomized trials and implications for network meta-analyses*, 2018 (6 months)
5. Kristen King, Epidemiologist, Master of Public Health in Epidemiology, Columbia University Mailman School of Public Health, New York, US: *The impact of control group risk in networks of interventions*, 2017 (3 months)
6. Krishna Bhavsar, Statistician, Master 2 in Methods for Therapeutic Evaluation, Université Paris Diderot – Paris Descartes, Paris, France: *Validity of results obtained from industry-sponsored network meta-analyses: an empirical survey*, 2017 (6 months)

RESEARCH FUNDING

Ongoing grants

- 12/2022-12/2025: **French National Research Agency – Generic Projects 2022**
Principal Investigator of the research grant “OptiCER - Integrating multiple sources of evidence for optimized comparative effectiveness research” **Total amount: €380 000**
- 11/2021-11/2023: **Marie Skłodowska-Curie Actions: Individual Fellowships**
Supervisor of the post-doctoral fellowship “DyCER - Dynamic comparative effectiveness research for health care interventions” **Total amount: €185 000**
- 11/2021-11/2023: **H2020-IBA-SC1-CORONAVIRUS-2020-4**
Co-investigator of the research grant “VACCELERATE - European Corona Vaccine Trial Accelerator Platform” **Total amount: €12 000 000**
- 01/2019-12/2022: **Assistance Publique – Hôpitaux de Paris (Clinical Research and Development Department)**
Co-investigator of the research grant “Live cumulative network meta-analysis: Systemic pharmacological treatments for chronic plaque psoriasis”
Total amount: €115 000

Completed grants

- 05/2020-05/2021: **French National Research Agency - AAP Flash Covid-19**
Co-investigator of the research grant “*Interventions for Covid-19 infection: a living mapping of research and a living network meta-analysis*” **Total amount: €220 000**
- 03/2019-02/2021: **Washington University Institute of Clinical and Translational Sciences (ICTS)**
Mentor and project consultant of the KL2 Career Development Awards Program of Dr. Patil, **Total amount: \$150 000**
- 10/2016-12/2019: **Université Sorbonne Paris Cité (USPC)**
 Chair of Excellence fellowship, **Total amount: €330 000**
- 04/2016-06/2016: **Swiss National Foundation: International Short Visits**
 Visiting fellowship “*Estimating the hierarchy of antidepressant drugs*” **Total amount: CHF 9 000**
- 04/2015-04/2016: **Catalyst Grant: Methods in Post Market Drug Safety & Effectiveness**
External collaborator of the research grant “*Estimation of the level of inconsistency among sources of evidence that are commonly found in published networks of trials*”
Total amount: \$100 000

MEMBERSHIP TO EDITORIAL BOARDS

- **Guest Editor** for the special issue of *Research Synthesis Methods on Data Visualization* (<https://onlinelibrary.wiley.com/toc/17592887/2021/12/1>)
- **Associate Editor** of *Research Synthesis Methods*
- **Associate Editor** for network meta-analysis submissions of the *British Journal of Dermatology*
- **Statistical editor** for the *Cochrane Developmental, Psychological and Learning Problems Group* publishing in the *Cochrane Library*

PRIZES & AWARDS

- **Highly Cited Researchers Award, Web of Science, Cross-Field**, obtained annually since 2020
- **Student Conference Award at the 43rd ISCB Annual Conference**, August 2022, Newcastle, awarded to Theodoros Evrenoglou for the project “*Sharing information across patient subgroups to draw conclusions from sparse treatment networks*” with co-authors Metelli S, Schneider-Thoma J, Siafis S, Leucht S, **Chaimani A**
- **Distinction in the 4th Hellenic Forum of Public Health and Social Medicine**, November 2013 Athens, for the oral presentation “*Graphs for evaluating assumptions and presenting results in network meta-analysis*”

ORGANIZING COMMITTEES

- **Chair of the Local Arrangements Committee** for the SRSM Annual Meeting in Paris, July 2023, <http://www.srsm.org/officers.html>
- **Responsible for the organization of the 3-day course** on Network meta-analysis, May 2022, Biarritz, France, <https://www.cer-methods.com/2021/12/09/nmacourse>

- **Responsible for the organization of the 3-day course:** “Network meta-analysis: from planning to publication”, December 2019, Paris, France, <http://livenetworkmetaanalysis.com/nma-training>

SCIENTIFIC COMMITTEES

- **Co-chair** of the Cochrane Statistical Methods Group, <http://smg.cochrane.org>
- **Co-chair** of the Cochrane Comparing Multiple Interventions Methods Group, <http://cmimg.cochrane.org>
- **Invited Member** of the expert panel for extending the PRISMA 2020 statement to living systematic reviews
- **Elected Member** of the Society for Research Synthesis Methodology, <http://www.srsm.org>
- **Member** of the International Society for Clinical Biostatistics, <https://www.iscb.info/>
- **Member** of the steering committee of the COVID-NMA consortium, <https://covid-nma.com>
- **Member** of the steering committee for extending the PRISMA statement in network meta-analysis (2012-2015)

REVIEWING ACTIVITIES

- **Funding application reviewer** for the UK Medical Research Council and the German Research Foundation
- **Reviewer** for the journals: *Statistics in Medicine*, *Biometrics*, *Research Synthesis Methods*, *The Stata Journal*, *BMC Medical Research Methodology*, *Medical Decision Making*, *BMJ*, *BMC Medicine*, *JAMA*, *Nature Human Behaviour*, *International Journal of Epidemiology*, *Journal of Clinical Epidemiology*, *Epidemiology*, *Value in Health*, *Plos One*, *Systematic Reviews*, *BMC Public Health*
- **Invited Member** of the Abstract Review Committee of the 2020 Cochrane Colloquium
- **Statistical reviewer** for several Cochrane Groups publishing in the *Cochrane Library*

INVITED TALKS

- **Invited Cochrane Learning Live webinar**, June 2022: “*The COVID-NMA project: Building and maintaining an online living platform for COVID-19 studies*”
- **Invited virtual seminar** by Complete HEOR Solutions, October 2021: “*Introduction to Network Meta-analysis*”
- **Invited talk** at the WHO consultation on COVID-19 vaccines research, August 2021: “*Randomised evidence on COVID-19 vaccines and variants*”
- **Invited virtual seminar** at the Centre of Clinical Epidemiology, Lady Davis Institute, Jewish General Hospital, McGill University, April 2021: “*More than words: novel visualizations for evidence synthesis*” (with A. Nikolakopoulou)
- **Invited webinar** at the University of Milan, April 2021: “*The COVID-NMA project: Living mapping and systematic review of COVID-19 studies*”
- **Invited webinar** at the US Cochrane Network, December 2020: “*The COVID-NMA project: Living mapping and synthesis of Covid-19 studies*”
- **Invited talk** at Biostatistics & Epidemiology Unit, Paris-Sud University, December 2019, Paris, France: “*Methods for network meta-analysis and ranking of treatments*”
- **Invited talk** at Center for Clinical Trials and Evidence Synthesis, Bloomberg School of Public Health, Johns Hopkins University, August 2016, Baltimore, US: “*Best treatments – Rankings in network meta-analysis*”

- **Invited talk** at the 2-day meeting “Clinical Trials from A to Z”, June 2019, Athens, Greece: *“Introduction to Meta-analysis”*
- **Invited seminar** at Institute of Social and Preventive Medicine, University of Bern, May 2016, Bern, Switzerland: *“Graphs to enhance understanding and improve interpretability of the evidence from network meta-analysis”*
- **Invited talk** at Mapi BV, January 2016, Houten, Netherlands: *“Undertaking network meta-analyses in Cochrane reviews”*
- **Invited talk** at Mapi BV, February 2015, Houten, Netherlands: *“Presenting network meta-analyses and ranking interventions”*
- **Invited speaker** at the Methods Symposium of the 21st Cochrane Colloquium, September 2013, Quebec City, Canada: *“Network meta-epidemiology: assessing the various impacts on the relative treatment effects and ranking of competing treatments”*
- **Invited speaker** at the 5th Hellenic Forum of Public Health and Social Medicine, November 2013, Thessaloniki, Greece: *“Evaluating the quality of methodology in network meta-analysis: a case study on treatments for generalized anxiety disorders”*

PRESENTATIONS IN CONFERENCES (A SELECTION - FIRST/LAST AUTHOR ONLY)

- Metelli S, **Chaimani A**. A novel framework to disentangle combinations of components in a network of complex interventions (oral). *43rd ISCB Annual Conference, August 2022, Newcastle, UK*
- Evrenoglou T, Metelli S, Schneider-Thoma J, Sifakis S, Leucht S, **Chaimani A**. Sharing information across patient subgroups to draw conclusions from sparse treatment networks (oral). *43rd ISCB Annual Conference, August 2022, Newcastle, UK*
- Metelli S, **Chaimani A**. NMAstudio: a fully interactive web-application for producing and visualizing network meta-analyses (oral). *SRSN Annual Meeting, July 2022, Portland, US*
- Evrenoglou T, Metelli S, Schneider-Thoma J, Sifakis S, Leucht S, **Chaimani A**. Sharing information across patient subgroups to draw conclusions from sparse treatment networks (oral talk). *SRSN Annual Meeting, July 2022, Portland, US*
- Evrenoglou T, White IR, Afari S, Mavridis D, **Chaimani A**. Network meta-analysis of rare events using penalized likelihood regression (oral). *DAGStat Conference, March 2022, Hamburg, Germany*
- Metelli S, **Chaimani A**. NMAstudio: a fully interactive web-application for producing and visualizing network meta-analyses (poster). *SRSN Annual Meeting, June 2021, Bern, Switzerland*
- Evrenoglou T, Mavridis D, **Chaimani A**. Network meta-analysis of rare events using penalized likelihood regression (oral). *41th ISCB Annual Conference, August 2020, Krakow, Poland*
- Metelli S, Mavridis D, **Chaimani A**. Detecting outlying studies in Network Meta-analysis using Bayes factors (oral). *41th ISCB Annual Conference, August 2020, Krakow, Poland*
- **Chaimani A**, Mavridis D, Sbidian E, Porcher R, Ravaud P. A Markov Chain approach for ranking treatments in network meta-analysis (oral). *SRSN Annual Meeting, July 2019, Chicago, US*
- **Chaimani A**, Porcher R, Sbidian E, Ravaud P. Extending treatment ranking in network meta-analysis to account for clinical experience on treatment performance and credibility of the evidence (oral). *39th ISCB Annual Conference, August 2018, Melbourne, Australia*
- **Chaimani A**, Porcher R, Sbidian E, Ravaud P. Extending treatment ranking in network meta-analysis to account for clinical experience on treatment performance and credibility of the evidence (poster). *25th Cochrane Colloquium, September 2018, Edinburgh, UK*
- **Chaimani A**, Papakonstantinou T, Nikolakopoulou A, Higgins J, Del Giovane C, Egger M, Salanti G. CINeMA: a web application to evaluate the Confidence In Network Meta-Analysis results (oral). *24th Cochrane Colloquium, September 2017, Cape Town, South Africa*

- **Chaimani A**, Porcher R, Ravaud P, Mavridis D. A novel method for modelling interactions between components of complex interventions in networks of randomised trials (oral). *24th Cochrane Colloquium, September 2017, Cape Town, South Africa*
- **Chaimani A**, Petropoulou M, Nikolakopoulou A, Salanti G. A methodological systematic review of 456 published network meta-analyses (poster). *24th Cochrane Colloquium, October 2016, Seoul, South Korea*
- **Chaimani A**, Salanti G. Exploring and accounting for the impact of interventions with scarce evidence in network meta-analysis (oral). *23rd Cochrane Colloquium, October 2015, Vienna, Austria*
- **Chaimani A**, Salanti G. Investigating the impact of interventions with scarce evidence in network meta-analysis (oral). *36th ISCB Annual Conference, August 2015, Utrecht, Netherlands*
- **Chaimani A**, Higgins JPT, Mavridis D, Spyridonos P, Salanti G. Graphs for evaluating assumptions and presenting results in network meta-analysis (oral). *4th Hellenic Forum of Public Health and Social Medicine, November 2013, Athens, Greece*
- **Chaimani A**, Vasiliadis HS, Schmid CH, Salanti G. The impact of control group risk in the relative effectiveness of interventions estimated in network meta-regression (poster). *34th ISCB Annual Conference, August 2013, Munich, Germany*
- **Chaimani A**, Vasiliadis HS, Schmid CH, Salanti G. The impact of control group risk in the relative effectiveness of interventions estimated in network meta-regression (oral). *3rd Hellenic Forum of Public Health and Social Medicine, December 2012, Athens, Greece*
- **Chaimani A**, Schmid CH, Vasiliadis H, Salanti G. A meta-epidemiological approach for evaluating bias and small-study effects in networks of interventions (poster). *19th Cochrane Colloquium, October 2011, Madrid, Spain*
- **Chaimani A**, Dahabreh I, Linardou H, Cappuzzo F, Papadimitriou C, et al. Prognostic significance of EGFR gene copy number gain in NSCLC: a systematic review and meta-analysis (poster). *14th World Conference on Lung Cancer, July 2011, Amsterdam, Netherlands*

PUBLICATIONS

Doctoral Thesis

Chaimani Anna. Investigating bias in network meta-analysis. *Department of Hygiene & Epidemiology, University of Ioannina School of Medicine, May 2014, Ioannina, Greece* (available [here](#)).

Book chapters

1. Evrenoglou T, Metelli S, **Chaimani A**. Introduction to meta-analysis. In: *Principles and Practice of Clinical Trials*. Springer US 2021 ([link](#))
2. **Chaimani A**, Caldwell DM, Li T, Higgins J, Salanti G. Undertaking network meta-analyses (chapter 11). In: *Cochrane Handbook for Systematic Reviews of Interventions*. John Wiley & Sons, Ltd, 2019 ([link](#))
3. Salanti G, Caldwell DM, **Chaimani A**, Higgins JPT. Network meta-analysis. In: *Health Services Evaluation (Part of the Health Services Research book series)*. Springer US 2017 ([link](#))
4. Efthimiou O, **Chaimani A**, Mavridis D, Salanti G. Network meta-analysis. In: *Methods in Comparative Effectiveness Research*. Chapman & Hall/CRC Biostatistics Series 2016 ([link](#))
5. Cipriani A, Geddes J, **Chaimani A**, Leucht S, Salanti G. Chapter 15: State of the art reporting of network meta-analyses. In: *Network Meta-Analysis: Evidence Synthesis with Mixed Treatment Comparison*. Nova Science Publishers 2015 ([link](#))

Special Issue in Journals

Research Synthesis Methods: [Special Issue on Data Visualization](#), January 2021, Volume 12, Issue 1

Impact of publications (02/2023)	
Published articles	71 peer reviewed publications 14 as first author 10 as last author
Citations	15 205 (Google Scholar) 10 376 (excluding self-citations, Scopus) Highly Cited Researcher (Web of Science)
h-index	38 (Google Scholar) 33 (excluding self-citations, Scopus)

Pre-prints

1. Evrenoglou T, Metelli S, Schneider-Thoma J, Sifias S, Turner R, Leucht S, **Chaimani A**. Sharing information across patient subgroups to draw conclusions from sparse treatment networks. <https://arxiv.org/abs/2301.09442>
2. Metelli S, **Chaimani A**. NMAstudio web-application: A brief tutorial. https://assets.researchsquare.com/files/rs-2151038/v1_covered.pdf?c=1665512019
3. Bouvier FB, **Chaimani A**, Gueyffier F, Grenet G, Porcher R. Estimating individualized treatment effects using individual participant data meta-analysis. <https://hal.archives-ouvertes.fr/hal-03735613/>

Published articles in peer-reviewed journals

1. Metelli S, Mavridis D, Créquit P, **Chaimani A**. Bayesian model-based outlier detection in network meta-analysis. *Journal of the Royal Statistical Society Series A* 2023 [to appear]
2. Cheufra C, Tsokani S, Kontouli KM, Boutron I, **Chaimani A**. Empirical evaluation of the methods used in systematic reviews including observational studies and randomized trials. *Journal of Clinical Epidemiology* 2023 [to appear]
3. Evrenoglou T, Boutron I, Seitidis G, Ghosn L, **Chaimani A**. metaCOVID: A web-application for living meta-analyses of COVID-19 trials. *Research Synthesis Methods* 2023 ([link](#))
4. Sentenac M, Twilhaar S, Benhammou V, Morgan AS, Johnson S, **Chaimani A**, Zeitlin J. Heterogeneity of design features in studies included in systematic reviews with meta-analysis of cognitive outcomes in children born very preterm. *Paediatric & Perinatal Epidemiology* 2023 ([link](#))
5. Mavridis D, Nikolakopoulou A, Moustaki I, **Chaimani A**, Porcher R, et al. Considering multiple outcomes with different weights informed the hierarchy of interventions in network meta-analysis. *Journal of Clinical Epidemiology* 2022; 154: 188-196 ([link](#))
6. Evrenoglou T, White IR, Afach S, Mavridis D, **Chaimani A**. Network meta-analysis of rare events using penalized likelihood regression. *Statistics in Medicine* 2022; 41:5203–5219 ([link](#))
7. Grana C, Ghosn L, Evrenoglou T, Jarde A, Minozzi S, Bergman H, Buckley BS, Probyn K, Villanueva G, Henschke N, Bonnet H, Assi R, Menon S, Marti M, Devane D, Mallon P, Lelievre JD, Askie LM, Kredt T, Ferrand G, Davidson M, Riveros C, Tovey D, Meerpohl JJ, Grasselli G, Rada G, Hróbjartsson A, Ravaud P, **Chaimani A**, Boutron I. Efficacy and safety of COVID-19 vaccines. *Cochrane Database of Systematic Reviews* 2022; CD015477 ([link](#))
8. Leucht S*, **Chaimani A***, Krause M, Schneider-Thoma J, Wang D, Dong S, et al. The response of subgroups of patients with schizophrenia to different antipsychotic drugs: a systematic review and meta-analysis. *Lancet Psychiatry* 2022 [Epub ahead of print] [*joint first authors] ([link](#))
9. Charitakis E, Metelli S, Karlsson LO, Antoniadis AP, Rizas K, Liuba I, Almroth H, Jönsson AH, Schweiler J, Tsartsalis D, Sideris S, Dragioti E, Fragakis N, **Chaimani A**. Comparing efficacy and

- safety in catheter ablation strategies for atrial fibrillation: a network meta-analysis of randomized controlled trials. *BMC Medicine* 2022; 20(1):1-13 ([link](#))
10. Davidson M, Menon S, **Chaimani A**, Evrenoglou T, Ghosn L, Grana C, et al. Interleukin-1 blocking agents for treating COVID-19. *Cochrane Database of Systematic Reviews* 2022; 1(1):CD015308 ([link](#))
 11. Charitakis E, Metelli S, Karlsson LO, Antoniadis AP, Liuba I, Almroth H, Jönsson AH, Schwieler J, Sideris S, Tsartsalis D, Dragioti E, Fragakis N, **Chaimani A**. Comparing efficacy and safety in catheter ablation strategies for paroxysmal atrial fibrillation: a network meta-analysis of randomized controlled trials. *Diagnostics* 2022; 12(2):433 ([link](#))
 12. Sentenac M, **Chaimani A**, Twilhaar S, Benhammou V, Johnson S, Morgan A, Zeitlin J. The challenges of heterogeneity in gestational age and birthweight inclusion criteria for research synthesis on very preterm birth and childhood cognition: An umbrella review and meta-regression analysis. *Paediatric & Perinatal Epidemiology* 2022; 36:717-725 ([link](#))
 13. **Chaimani A**, Porcher R, Sbidian E, Mavridis D. A Markov Chain approach for ranking treatments in network meta-analysis. *Statistics in Medicine* 2021; 40(2):451-464 ([link](#))
 14. Ghosn L, **Chaimani A**, Evrenoglou T, Davidson M, Graña C, Schmucker C, et al. Interleukin-6 blocking agents for treating COVID-19: a living systematic review. *Cochrane Database of Systematic Reviews* 2021; 3(3):CD013881 ([link](#))
 15. Veroniki AA, Tsokani S, Zevgiti S, Pagkalidou I, Kontouli KM, Ambarcioglu P, Pandis N, Lunny C, Nikolakopoulou A, Papakonstantinou T, **Chaimani A**, Straus SE, et al. Do reporting guidelines have an impact? Empirical assessment of changes in reporting before and after the PRISMA extension statement for network meta-analysis. *Systematic reviews* 2021; 10:246 ([link](#))
 16. Rivière P, Ripoll P, Barnier J, Vuillemot R, Ferrand G, Cohen-Boulakia S, Ravaud P, Boutron I, and *The COVID-NMA Consortium Team*. Research response to coronavirus disease 2019 needed better coordination and collaboration: a living mapping of registered trials. *Journal of Clinical Epidemiology* 2021; 130:107-116 ([link](#))
 17. Nikolakopoulou A, **Chaimani A**. More than words: Novel visualizations for evidence synthesis. *Research Synthesis Methods* 2021; 12(1):2-3 ([link](#))
 18. Boutron I, **Chaimani A**, Meerpohl JJ, Hrobjartsson A, Devane D, Rada G, et al. The COVID-NMA Project: Building an Evidence Ecosystem for the COVID-19 Pandemic. *Annals of Internal Medicine* 2020; 173(12):1015-1017 ([link](#))
 19. Luo Y, Ostinelli EG, Sahker E, **Chaimani A**, Kataoka Y, Ogawa Y, et al. Antidepressant prescriptions have not fully reflected evolving evidence from cumulative network meta-analyses and guideline recommendations. *Journal of Clinical Epidemiology* 2021; 133:14-23 ([link](#))
 20. **Chaimani A**. Conduct and reporting of individual participant data network meta-analyses need improvement. *BMC Medicine* 2020; 18(1):1-2 ([link](#))
 21. Afach S, **Chaimani A**, Evrenoglou T, Penso L, Brouste E, Sbidian E, Le Cleach L. Meta-analysis results do not reflect the real safety of biologics in psoriasis. *British Journal of Dermatology* 2021; 184(3):415-424 ([link](#))
 22. Luo Y, **Chaimani A**, Furukawa TA, Kataoka Y, Ogawa Y, Cipriani A, Salanti G. Visualizing the evolution of evidence: Cumulative network meta-analysis of new generation antidepressants in the last 40 years. *Research Synthesis Methods* 2021; 12:74-85 ([link](#))
 23. 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. *Plos Medicine* 2020; 17(4):e1003082 ([link](#))
 24. Metelli S, **Chaimani A**. Challenges in meta-analyses with observational studies. *Evidence-Based Mental Health* 2020; 23(2) ([link](#))
 25. Kataoka Y, Luo Y, **Chaimani A**, Onishi A, Kimachi M, Tsujimoto Y, et al. Cumulative network meta-analyses, practice guidelines, and actual prescriptions for postmenopausal osteoporosis: a meta-epidemiological study. *Archives of Osteoporosis* 2020; 15(1):1-10 ([link](#))

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Published software

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