# A Living Systematic Review of Problems with Systematic Reviews

We expect best practice from clinical trials, but what's the integrity of the systematic reviews that combine them?

# METHODS

Comprehensive searches for literature highlighting flaws in published systematic reviews

Qualitative analysis of the underlying problems

Dissemination and elaboration via a dedicated website with infrastructure to incorporate the emerging evidence base

Problem focussed- not people.

The aim is to uphold systematic review practice, but also to scrutinise it

Open to feedback and engagement from the research community and beyond

# RESULTS

485 included articles from the first iteration (searches conducted 2022)

67 discrete problems identified across 4 domains that are key to systematic reviews:

COMPREHENSIVE

RIGOROUS

TRANSPARENT

**OBJECTIVE** 

Not all 67 problems are covered by existing systematic review guidelines and methods

This living research aims to be a learning resource to improve the reliability and validity of future systematic reviews











# **Systematic Reviews Journal**

Barbara Ann Kitchenham, David Budgen, Pearl Brereton

#### **Systematic Reviews Journal:**

An Introduction to Systematic Reviews David Gough, Sandy Oliver, James Thomas, 2012-03-22 This timely engaging book provides an overview of the nature logic diversity and process of undertaking systematic reviews as part of evidence informed decision making A focused accessible and technically up to date book it covers the full breadth of approaches to reviews from statistical meta analysis to meta ethnography It is ideal for anyone undertaking their own systematic review providing all the necessary conceptual and technical background needed to make a good start on the process The content is divided into five clear sections Approaches to reviewing Getting started Gathering and describing research Appraising and synthesising data Making use of reviews models of research use Easy to read and logically structured this book is essential reading for anyone doing systematic reviews David Gough is Professor of Evidence Informed Policy and Practice and Director of SSRU and its EPPI Centre and Co Editor of the journal Evidence Policy Sandy Oliver is Professor of Public Policy and Deputy Director of SSRU and its EPPI Centre James Thomas is Reader in Social Policy Assistant Director of SSRU and An Introduction to Systematic Reviews David Gough, Sandy Oliver, James Associate Director of the EPPI Centre Thomas, 2017-03-28 Focused on actively using systematic review as method this book provides clear step by step advice on the logic and processes of systematic reviewing Stressing the importance of precision and accuracy this new edition carefully balances a need for insightful theory with real world pragmatism it introduces a wide range of cutting edge approaches to research synthesis including text mining living reviews and new ideas in mixed methods reviews such as qualitative comparative analysis The book also includes A new chapter on statistical synthesis Coverage of computer assisted methods and relevant software Expanded sections on data extraction and management A guide to working with many different types of data including longitudinal and panel Packed with examples from across the social sciences this book helps students and researchers alike in turning systematic reviews into recommendations for policy and practice Piecing Together Systematic Reviews and Other Evidence Syntheses Margaret J. Foster, Sarah T. Jewell, 2022-10-17 Selected as a 2025 Doody's Core Title Systematic reviews and other evidence syntheses have a vital role in summarizing the literature exploring gaps in research prioritizing new research and providing literature to support decision making and evidence based practices Librarians adapt their practices as members of the higher education and research community If they consult and teach with researchers faculty and students review methods will likely be a part of their work Piecing Together Systematic Reviews and Other Evidence Syntheses A Guide for Librarians aims to be the definitive text on systematic reviews for librarians information professionals and expert searchers Starting with an introduction to evidence syntheses the book follows the acronym PIECCESS a framework for the 8 phases which flow through 8 processes The 8 phases are 1 Proposal of scope 2 Protocol registration 3 Preliminary findings 4 Paper completion 5 Preserve project 6 Promote to stakeholders 7 Impact compilation 8 Updating the review The 8 processes are Plan Identify Evaluate Collect Combine Explain Summarize and Share

After the processes of a review project are covered guidance for developing and running a service is provided as well as teaching reviews and training for librarians The intended audience for this book is any librarian interested in consulting collaborating completing or teaching reviews It has several applications for training librarians new to reviews for those developing a new review service for those wanting to establish policies for current service and as a reference for those conducting reviews or running a service Participating in reviews is a new frontier of librarianship with expanded opportunities for new service research areas and professional activities. This book is part of the effort to standardize best practices when engaging in evidence syntheses Comprehensive Systematic Review for Advanced Practice Nursing, Third Edition Cheryl Holly, Susan Salmond, Maria Saimbert, Maria Hadley Saimbert, 2021-06-12 A two time AJN Book of the Year Award winner and a 2013 Doody Core Title This distinguished text provides top tier guidance for advanced practice nurses on how to perform a comprehensive systematic review of available research to inform scholarly work particularly in DNP and PhD programs With a strategic focus on the search process and assessing the quality of the evidence this text presents clearly and comprehensively all of the knowledge and skills necessary to conduct a foundational CSR in eight concrete steps This text examines how to write a CSR proposal final report and a policy brief based on systematic review findings Two finished proposals and two completed systematic reviews demonstrate each step of the process from start to finish Additionally the text covers software used in research gueries and provides helpful strategies for effectively using the search function when seeking information The Third Edition offers four new chapters with incisive recommendations for performing a CSR and addressing new ways CSR is being implemented in today s healthcare environment It describes the latest methodological advances including living systematic reviews and dominance scores for economic review Two complete CSRs along with new and updated examples throughout the book further aid readers in their pursuit of excellence in scholarly work New to the Third Edition New Chapters How to choose the right critical appraisal tool Writing the final report and disseminating the results of systematic reviews Disseminating results with how to write a policy brief and or press release on CSR results Example of a meta analysis using GRADE Offers increased focus on dissemination Includes new and updated examples reflecting latest trends in nursing scholarly work Key Features Provides the knowledge and skills necessary to conduct a CSR from start to finish Teaches readers how to conduct high quality systematic reviews Instructs readers on pertinent resources and methods for optimal library related systematic review research efforts Describes how to best search research databases to facilitate scholarly work Includes objectives summary points end of chapter exercises discussion guestions suggested reading and references to enhance understanding **Evidence-Based Software** Engineering and Systematic Reviews Barbara Ann Kitchenham, David Budgen, Pearl Brereton, 2015-11-04 In the decade since the idea of adapting the evidence based paradigm for software engineering was first proposed it has become a major tool of empirical software engineering Evidence Based Software Engineering and Systematic Reviews provides a clear

introduction to the use of an evidence based model for software engineering research and practice **Systematic Reviews** to Support Evidence-Based Medicine Khalid Saeed Khan, Javier Zamora, 2022-12-23 Authoritative clear and concise this highly acclaimed book continues to be an essential text for all medical surgical and allied health professionals who are seeking a guick and respected guide to systematically reviewing the literature The third edition features a new chapter on Publishing systematic reviews and numerous new case studies covering the latest developments in the field including umbrella reviews reviews of test accuracy qualitative evidence and prognostic studies and practice guidelines The highly experienced authors who have each contributed to numerous systematic reviews that have helped form policy and practice ensure that this practical text which avoids technical jargon continues to be the reference of choice for all health professionals undertaking literature reviews including those specializing in epidemiology and public health Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy Jonathan J. Deeks, Patrick M. Bossuyt, Mariska M. Leeflang, Yemisi Takwoingi, 2023-06-13 Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy A guide to conducting systematic reviews of test accuracy In Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy a team of distinguished researchers deliver the official guide to preparing and maintaining systematic reviews of test accuracy in healthcare This first edition of the Handbook contains guidance on understanding test accuracy measures search strategies and study selection understanding meta analysis and risk of bias and applicability assessments presentation of findings and drawing conclusions Readers will also find An introduction to test evaluation including the purposes of medical testing test accuracy and the impact of tests on patient outcomes Comprehensive explorations of the design of test accuracy studies including discussions of reference standards and comparative test accuracy studies Considerations of the methods and presentation of systematic reviews of test accuracy Elaboration of study selection data collection and undertaking risk of bias and applicability assessments Perfect for medical practitioners and clinicians Cochrane Handbook for Systematic Reviews of Diagnostic Test Accuracy will also benefit professionals in epidemiology and students in related fields Doing a Systematic Review Gemma Cherry, Angela Boland, Rumona Dickson, 2023-11-08 Completing a systematic review and unsure where to start or what path to take Set out on your journey confidently with this practical guide written by a team of experienced academics With a friendly accessible style the book covers every step of the systematic review process from planning to dissemination This book will help you to Work with qualitative quantitative and mixed methods data Understand the how to of systematic reviews with a range of real life examples and case studies Learn from students who have been in your shoes with FAQs taken from actual supervision meetings This book will not only support you to overcome common challenges and pitfalls it will give you the knowledge and skills to produce an excellent review and you might even enjoy the journey Alongside updated examples and case studies this edition also includes two new chapters to help you write and register your review protocol and understand and synthesise data from correlational and experimental studies The book is

accompanied by an online guide for teaching including videos example documents further reading software recommendations and weblinks Systematic Approaches to a Successful Literature Review Andrew Booth, Anthea Sutton, Mark Clowes, Marrissa Martyn-St James, 2021-11-10 Whether you are new to literature reviews or working with new types of data this book takes the guesswork out of writing your literature review From deciding how much literature to include to managing your data assessing your sources and writing results it outlines a step by step process that works with any data To help you choose best approach for your research this book includes Worksheets and decision aids to help you plan and organise your literature review Worked examples and case studies to show you what and what not to do in practice Troubleshooting tips and answers to all your frequently asked questions Online access to a literature review starter template an exercise workbook project diary template and a source credibility checklist. The perfect project support for any social sciences student this edition also includes a new chapter on analysing mixed methods research Comprehensive Systematic Review for Advanced Practice Nursing, Second Edition Cheryl Holly, Susan Salmond, Maria Saimbert, Maria Hadley Saimbert, 2016-07-14 First Edition a 2013 Doody's Core Title and AJN Book of the Year Award Winner This text provides top tier quidance for DNP students graduate faculty APRNs and other healthcare providers on how to use available research for improving patient outcomes and reducing costs It is the only resource written expressly to meet the objectives of DNP courses This second edition is completely updated and features three new approaches umbrella reviews mixed method reviews and other types of reviews for seeking synthesizing and interpreting available evidence to improve the delivery of patient care The text also includes two new examples of completed systematic reviews and two completed proposals The book presents clearly and comprehensively the knowledge and skills necessary to conduct a foundational comprehensive systematic review CSR It encompasses the complexities of the entire process from asking clinical questions to getting the evidence into practice The text includes question specific methods and analysis and compares CSR methods literature reviews integrated reviews and meta studies It describes how to find and appraise relevant studies including the non published grey literature and criteria for selecting or excluding studies and describes how to use the results in practice Also examined are ways to disemminate findings to benefit clinical practice and support best practices and how to write a CSR proposal final report and a policy brief based on systematic review findings Plentiful examples including two completed proposals and two completed systematic reviews demonstrate every step of the process An expanded resource chapter that can serve as a toolkit for conducting a systematic review is also provided The text also covers useful software and includes objectives summary points end of chapter exercises suggested readings and references New to the Second Edition Three new chapters presenting new systematic review approaches umbrella reviews mixed method reviews and other types of reviews including rapid and scoping reviews and reviews of text and opinoin Two new examples of completed systematic reviews Completely updated content throughout Detailed information to foster systematic review research question development

efficient literature searches and management of references Key Features Delivers the knowledge and skills necessary to conduct a CSR from start to finish Serves as the only CSR resource written expressly for the advanced practice nurse Describes useful software for conducting a systematic review Provides rich examples including two completed CSRs Includes objectives summary points end of chapter exercises suggested readings and references Provides a comprehensive toolkit of resources to complete a systematic review Doing a Systematic Review Angela Boland, Gemma Cherry, Rumona Dickson, 2017-10-28 Written in a friendly accessible style by an expert team of authors with years of experience in both conducting and supervising systematic reviews this is the perfect guide to using systematic review methodology in a research project It provides clear answers to all review related questions including How do I formulate an appropriate review question What s the best way to manage my review How do I develop my search strategy How do I get started with data extraction How do I assess the quality of a study How can I analyse and synthesize my data How should I write up the discussion and conclusion sections of my dissertation or thesis Health Sciences Literature Review Made Easy Judith Garrard, 2020-12-09 Health Sciences Literature Review Made Easy Sixth Edition is the ultimate how to guide for learning the practical and useful methods for reviewing scientific literature in the health sciences Life Care Planning and Case Management Across the Lifespan Tanya Rutherford-Owen, Mary Barros-Bailey, Roger O. Weed, 2023-11-23 Celebrating 25 years since its first publication the fifth edition of this best selling text is the most up to date and complete resource available on what a life care planner does how the life care planner does it and issues that affect the day to day role of a life care planner Now featuring new material on pediatric life care planning and case management including brachial plexus injuries and neurodevelopmental disorders this new edition provides guidance and planning for cases across the lifespan It begins with a series of chapters examining ten different professional specializations that often contribute to a life care plan before providing critical information for developing life care plans for individuals with different physical mental and cognitive conditions including spinal cord injury brain injury and chronic pain Uniquely comprehensive the book also includes chapters on the forensic and legal context of life care planning as well as equipment technology evidence based literature resources and special education special needs planning relevant to pediatric life care planning Also including chapters dedicated to life care planning methodology and life care planning research this is an essential resource for anyone practicing or studying life care planning or managing the needs of those requiring chronic medical care over the lifespan Doing a Literature Review Chris Hart, 2018-01-01 The ultimate guide to the what how and why of literature reviewing the second edition of the classic text shows how the literature review will unlock the full potential of one s research with A thorough exploration of the literature review process from start to finish Two brand new chapters explaining the different types of review and evidence and evaluation Extended examples that show you how to apply key techniques and procedures A new core skills framework to help you turn your research experience into employability A critical thinking focus that will help you construct convincing

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Supporting a Physiologic Approach to Pregnancy and Birth Melissa D. Avery,2013-03-28 Supporting a Physiologic Approach to Pregnancy and Birth A Practical Guide provides an overview of current evidence and a range of practical suggestions to promote physiologic birth within the United States healthcare system Presenting the latest evidence available on practical approaches and minimal interventions this book looks into clinic exam rooms and hospital labor units to investigate the possibilities for improving the pregnancy and labor experience Contributors discuss recent research and other published information and present a range of ideas tools and solutions for maternity care clinicians including midwives nurses physicians and other members of the perinatal team An invaluable resource Supporting a Physiologic Approach to Pregnancy and Birth is a must have practical guide for those involved in all aspects of pregnancy and birth

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