

How to Write a Systematic Review

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Background: The role of evidence-based medicine in sports medicine and orthopaedic surgery is rapidly growing. Systematic reviews and meta-analyses are also proliferating in the medical literature.

Purpose: To provide the outline necessary for a practitioner to properly understand and/or conduct a systematic review for publication in a sports medicine journal.

Study Design: Review.

Methods: The steps of a successful systematic review include the following: identification of an unanswered answerable question; explicit definitions of the investigation's participant(s), intervention(s), comparison(s), and outcome(s); utilization of PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-analyses) guidelines and PROSPERO registration; thorough systematic data extraction; and appropriate grading of the evidence and strength of the recommendations.

Results: An outline to understand and conduct a systematic review is provided, and the difference between meta-analyses and systematic reviews is described. The steps necessary to perform a systematic review are fully explained, including the study purpose, search methodology, data extraction, reporting of results, identification of bias, and reporting of the study's main findings.

Conclusion: Systematic reviews or meta-analyses critically appraise and formally synthesize the best existing evidence to provide a statement of conclusion that answers specific clinical questions. Readers and reviewers, however, must recognize that the quality and strength of recommendations in a review are only as strong as the quality of studies that it analyzes. Thus, great care must be used in the interpretation of bias and extrapolation of the review's findings to translation to clinical practice. Without advanced education on the topic, the reader may follow the steps discussed herein to perform a systematic review.

Keywords: evidence-based medicine; meta-analysis; systematic review; PRISMA; PROSPERO

Evidence-based medicine utilizes the available medical literature to guide clinical decision making and assess the strength of clinical recommendations. When diagnosing and treating patients, practitioners employ evidence-based guidelines to advocate for or against an intervention. Meta-analyses and systematic reviews critically appraise and formally synthesize the best existing evidence to provide a statement of conclusion that answers specific clinical questions. Conduct of performance of this type of investigation is transparent, with explicit selection, evaluation, and reporting of the analyzed evidence.

In addition, these reviews account for and attempt to limit individual studies' biases. Thus, systematic reviews and meta-analyses are powerful in their ability to combine patient outcomes from distinct, yet similar, trials. Therefore, they have the potential to provide sufficient patient numbers and generalizable population information to make more powerful evidence-based conclusions. The quality and strength of recommendations in a review are only as strong as the quality of studies that are analyzed.^{1,2,32,34} Even randomized trials with high-level evidence are not without limitations. Thus, great care must be used in the interpretation of bias and extrapolation of the review's findings to translation to clinical practice. Thus, a systematic review of high-quality randomized controlled trials is a high-quality review, as these investigations are at the top of the evidence-based medicine hierarchy (Figure 1). Similarly, a systematic review of retrospective case series with level IV evidence is limited by the same biases that qualify the individual studies as level IV evidence. Given the recent rapid expansion of electronic and written medical publishing, systematic reviews and meta-analyses are very useful in that they synthesize and present large bodies of evidence to the busy clinician. The purpose of this review is to provide an outline for a practitioner to properly understand and/or conduct a systematic review for publication in a sports medicine journal.

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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 quick 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

Systematic Reviews Cynthia Diane Mulrow, Deborah Cook, 1998 The use and creation of systematic reviews with a discussion on their value and information on how to locate appraise and use them and on state of the art methods for conducting them **Publishing Journal Articles** Zheng Yan, 2020-11-05 Using over fifty real life cases and Kahneman's intuitive judgement theory this book introduces the science of journal article publication **Systematic Reviews in Health Care** Paul Glasziou, Les Irwig, Chris Bain, Graham Colditz, 2001-11-08 What do we do if different studies appear to give different answers When applying research to questions for individual patients or for health policy one of the challenges is interpreting such apparently conflicting research A systematic review is a method to systematically identify relevant research appraise its quality and synthesize the results The last two decades have seen increasing interest and developments in methods for doing high quality systematic reviews Part I of this book provides a clear introduction to the concepts of reviewing and lucidly describes the difficulties and traps to avoid A unique feature of the book is its description in Part II of the different methods needed for different types of health care questions frequency of disease prognosis diagnosis risk and management As well as illustrative examples there are exercises for each of the sections This is essential reading for those interested in synthesizing health care research **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 queries 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 questions suggested reading and references to enhance understanding

Cochrane Handbook for Systematic Reviews of Interventions Julian P. T. Higgins, James Thomas, Jacqueline Chandler, Miranda Cumpston, Tianjing Li, Matthew J. Page, Vivian A. Welch, 2019-10-28 The revised edition of the Handbook offers the only guide on how to conduct report and maintain a Cochrane Review The second edition of The Cochrane Handbook for Systematic Reviews of Interventions contains essential guidance for preparing and maintaining Cochrane Reviews of the effects of health interventions Designed to be an accessible resource the Handbook will also be of interest to anyone undertaking systematic reviews of interventions outside Cochrane and many of the principles and methods presented are appropriate for systematic reviews addressing research questions other than effects of interventions This fully updated edition contains extensive new material on systematic review methods addressing a wide range of topics including network meta analysis equity complex interventions narrative synthesis and automation Also new to this edition integrated throughout the Handbook is the set of standards Cochrane expects its reviews to meet Written for review authors editors trainers and others with an interest in Cochrane Reviews the second edition of The Cochrane Handbook for Systematic Reviews of Interventions continues to offer an invaluable resource for understanding the role of systematic reviews critically appraising health research studies and conducting reviews

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 PIECESS 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 Cheryl Holly, EdD, RN, ANEF, FNAP, Susan Salmond, EdD, RN, FAAN, Maria Saimbert, PhD, PharmD, MSN, MLIS, RN, 2016-07-14 First Edition a 2013 Doody's Core Title and AJN Book of the Year Award Winner This text provides top tier guidance 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 disseminate 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 opinion 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 *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 , **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 *Oxford Textbook of Global Public Health* Roger Detels,Martin Gulliford,Quarraisha Abdool Karim,Chorh Chuan Tan,2017 Sixth edition of the hugely successful internationally recognised textbook on global public health and epidemiology comprehensively covering the scope methods and practice of the discipline *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 Massage Fusion Rachel Fairweather, Meghan Mari, 2015-07-01 Massage Fusion is an essential companion for any manual therapist interested in treating common pain issues Acclaimed teachers and therapists Rachel Fairweather and Meghan Mari offer a practical and dynamic step by step approach to gaining results with persistent client problems such as low back pain neck pain headaches carpal tunnel syndrome TMJ disorders stress related conditions and stubborn sporting injuries The book outlines a clear and evidence based rationale to treatment using a clinically tried and tested combination of advanced massage techniques including myofascial work trigger point therapy acupuncture stretching and client self care suggestions Named after the authors successful UK based training company the Jing method has helped thousands of therapists build their practices Beautifully illustrated with clear photographs of each step this book gives massage therapists a tried and tested blueprint for approaching chronic pain conditions with confidence Drawing on both the available evidence and several decades of clinical experience Massage Fusion brings together art and science East and West philosophy and psychology into a joyful exploration of how to gain the best results for your clients A must read for all bodyworkers who want to be the best

Practical General Practice E-Book Adam Staten, Paul Staten, 2019-06-10 Practical General Practice is a highly practical manual specifically designed for use during the consultation process Containing over 1000 conditions the unique underlying structure of the book allows the GP to see immediately what treatment is recommended and why All recommendations are highly specific giving a firm guide to the GP during the consultation process rather than a list of possibilities that the GP might wish to consider Bullet points for action which give the GP an immediate summary of the issues that must be covered in the consultation Bullet points of the key evidence which justifies those recommendations All chapters thoroughly revised to reflect changes in the evidence and in major guidelines since the last edition NNT values provided when available New editorial team New research and guidelines relating to evidence based medicine included Greater focus on international guidelines and opinion New introductory chapter Principles and Practice of Primary Care taking account of topics relevant to the MRCGP exam Appendices thoroughly revised and updated Many contributors new to this edition New chapters on Ethics Diabetes and Long term conditions Extensively revised combined chapter on palliative care and end of life issues Now with accompanying free e book on Expert Consult for the first time Now in full colour

Handbook of Pain and Palliative Care Rhonda J. Moore, 2013-10-25 Handbook of Pain and Palliative Care Biobehavioral Approaches for the Life Course Rhonda J Moore editor This book takes both a biobehavioral and a lifespan approach to understanding long term and chronic pain and intervening to optimize patients functioning Rich in clinical diversity chapters explore emerging areas of interest computer based interventions fibromyalgia stress ongoing concerns cancer pain low back pain and special populations pediatric elderly military This coverage provides readers with a knowledge base in assessment treatment and management that is up to date practice strengthening and forward looking Subject areas featured in the

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Evidence-Based Oncology Christopher B. Williams, 2008-04-15 This is a book about using the best evidence to inform treatment decisions for people with cancer It is written by oncologists for oncologists using examples throughout to illustrate key points The book starts off with a toolbox section written in a way which will help those relatively new to the principles of evidence based oncology to understand the key issues and equip them with the basics of how to tell a good study from a bad one The majority of the book then deals with an evidence based summary of the common and important cancers in a structured and easy to read format around common patient scenarios and frequently asked questions Whilst most of the evidence is based on randomised controlled trials other studies are cited where appropriate eg when discussing adverse events The unique accompanying book website will contain updates of new chapters and studies as they become available Written by leading world figures in the evidence based movement Includes free CD ROM with PC eBook and sample PDA chapter Methodology of reviewing and appraising evidence discussed in the context of cancer management Clinical sections covering prevention and screening Chapters on treatment of the individual major cancers review the current best available evidence to most frequently asked questions Rigorously structured explicit searches evidence of efficacy and harms plus comment around clinical scenarios Free access update website keeping the text current and live www.evidbasedoncology.com

Systematic Reviews in Health Care Matthias Egger, George Davey Smith, Douglas Altman, 2013-07-01 The second edition of this best selling book has been thoroughly revised and expanded to reflect the significant changes and advances made in systematic reviewing New features include discussion on the rationale meta analyses of prognostic and diagnostic studies and software and the use of systematic reviews in practice

Achieving Evidence-Based Practice Susan Hamer, Gill Collinson, 2005-11-23 This title is directed primarily towards health care professionals outside of the United States This book provides a practical introduction to and overview of the development and implementation of evidence based practice It focuses on how to look for and appraise the available evidence how to apply the evidence using a variety of approaches and in different organisational contexts and how to understand different dimensions of personal and organisational change and its ethical components Numerous examples from practice and case studies clarify theory Very readable writing style and user friendly format with checklists of key issues Opportunities for reflective learning Update on current policy and regulatory

frameworks Role of clinical governance in evidence based practice considered **The Oxford Handbook of Evidence-based Management** Denise M. Rousseau, 2012-06-21 The Oxford Handbook of Evidence based Management shows how leaders and managers can make effective use of best available evidence in the decisions they make and what educators and researchers need to do to help them come to the right solution

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