

## Cochrane Handbook Chapter 9

Individual Participant Data Meta-Analysis: A Handbook for Healthcare Research provides a comprehensive introduction to the fundamental principles and methods that healthcare researchers need when considering, conducting or using individual participant data (IPD) meta-analysis projects. Written and edited by researchers with substantial practical guidance for each stage of an IPD meta-analysis project, alongside illustrated examples and summary learning points. Split into five parts, the book chapters take the reader through the journey from initiating and planning IPD projects to obtaining, checking, and meta-analysing IPD, and appraising and reporting findings. The book is designed to evaluate treatment effects, including the evaluation of participant-level effect modifiers (treatment-covariate interactions). Detailed extension is then made to specialist topics such as diagnostic test accuracy, prognostic factors, risk prediction models, and advanced statistical topics such as multivariate and network meta-analysis, powered meta-analysis. This book will enable the reader to: Understand the advantages of the IPD approach and decide when it is needed over a conventional systematic review Recognise the scope, resources and challenges of IPD meta-analysis projects Appreciate the importance of a multi-disciplinary project team and close collaboration with the original study investigators Harmonise IPD from multiple studies Examine risk of bias (quality) of IPD and minimise potential biases throughout the project Understand fundamental statistical methods for IPD meta-analysis, including two-stage and one-stage approaches (and their differences), and statistical software to implement them Clearly report and disseminate findings Critically appraise existing IPD meta-analysis projects Address specialist topics such as effect modification, multiple correlated outcomes, multiple treatment comparisons, non-linear relationships, test accuracy at multiple thresholds, multiple imputation, and developing and validating clinical prediction models Detailed examples and case studies are provided. Doing Meta-Analysis with R: A Hands-On Guide serves as an accessible introduction on how meta-analyses can be conducted in R. Essential steps for meta-analysis are covered, including calculation and pooling of outcome measures, forest plots, heterogeneity diagnostics, subgroup analyses, meta-regression, methods to control for publication bias, and sensitivity analyses but highly relevant topics such as network meta-analysis, multi-three-level meta-analyses, Bayesian meta-analysis approaches and SEM meta-analysis are also covered. A companion R package, dmetar, is introduced at the beginning of the guide. It contains data sets and several helper functions for the meta and metafor package used in the book are kept at a non-expert level, making the book widely accessible. Features
• Contains two introductory chapters on how to set up an R environment and do basic imports/manipulations of meta-analysis data, including exercises
• Describes statistical concepts clearly and concisely before applying them in R
• Includes step-by-step examples and a companion R package for the book

Evidence-based Practice across the Health Professions is a contemporary guide to modern evidence-based practice. Fully revised and updated, it continues to keep the focus on the knowledge and skills that clinicians and students really need to make evidence-based informed decisions. It provides a foundation to help you to better ponder and answer those questions, know how to decide whether the results of research are believable, important and applicable and use good evidence with patients to provide healthcare as responsibly, effectively and collaboratively as possible. Featuring a multi-disciplinary approach with contributions from international and national leaders in a range of disciplines, including:
- Clinical exercise physiology
- Optometry
- Complementary and alternative medicine
- Paramedicine
- Human movement (exercise science)
- Pharmacy
- Medical imaging
- Physiotherapy
- Medicine
- Podiatry
- Nursing
- Radiation Therapy
- Nutrition and dietetics
- Speech pathology
- Medicine
- Occupational Therapy
Visit our Instructor resources: Image collection PowerPoint slides Short answer and tutorial questions Clinical Scenarios Text book Student and instructor resources: Interactive quiz Worksheets Updated and additional content on shared decision making Additional case studies on community pharmacy and optometry Expanded and updated content on evidence-based clinical prediction rules Revised and expanded evolve assets to support teaching and learning

This guide is directed at the multi-disciplinary team dealing with cardiac rehabilitation. It is a practical handbook for everyday professionals on what they should do following cardiac events and return to work. It is adapted to the needs of cardiac rehabilitation centers.
· Key publication from the European Association of Preventive Cardiology
· Preventive Cardiology: Putting Prevention into Practice This handbook is directed at cardiologists in training and practice, specialist (cardiac) nurses, technicians, exercise physiologists and other healthcare professionals involved in the multidisciplinary process of cardiac rehabilitation
· Practical user-friendly handbook style presentation
· Co-edited by members address key issues - smoking, diet and physical activity
· Focus on high risk patients (family approach)

Systematic Reviews

A Hands-On Guide

Evidence-Based Practice Across the Health Professions - E-pub

Systematic Reviews in Health Care

Meta-Analysis in Context

Revised Edition

***Diagnostique com precisão as lesões bucais com a mais completa coleção de imagens disponível! Prepare-se para diagnosticar e tratar qualquer condição que você encontrar na prática. Esta referência consagrada e ricamente ilustrada fornece a você acesso direto a uma variedade de imagens clínicas coloridas e radiografias de pacientes que ilustram as diferentes características das lesões das regiões bucal e maxilofacial. Você também vai encontrar informações atualizadas sobre a etiologia, características clínicas, histopatologia, tratamento e prognóstico de cada entidade patológica, assim comonovas seções.***

***"The objective of a systematic review is to summarize the evidence on a specific clinical question using a transparent, a-priori protocol driven approach. This book provides an overview of the fundamental knowledge, principals and processes for the synthesis of quantitative data in reviews of the effectiveness of health care interventions. As such, it is designed for new reviewers, for students and as an introductory text for academics looking for a book on the fundamentals rather than advanced statistical processes."--[source inconnue].***

***Such diverse thinkers as Lao-Tze, Confucius, and U.S. Defense Secretary Donald Rumsfeld have all pointed out that we need to be able to tell the difference between real and assumed knowledge. The systematic review is a scientific tool that can help with this difficult task. It can help, for example, with appraising, summarising, and communicating the results and implications of otherwise unmanageable quantities of data. This book, written by two highly-respected social scientists, provides an overview of systematic literature review methods: Outlining the rationale and methods of systematic reviews; Giving worked examples from social science and other fields; Applying the practice to all social science disciplines; It requires no previous knowledge, but takes the reader through the process stage by stage; Drawing on examples from such diverse fields as psychology, criminology, education, transport, social welfare, public health, and housing and urban policy, among others. Including detailed sections on assessing the quality of both quantitative, and qualitative research; searching for evidence in the social sciences; meta-analytic and other methods of evidence synthesis; publication bias; heterogeneity; and approaches to dissemination.***

***This handbook provides detailed instructions for guideline developers on the following topics: application of high quality methodology for guideline development using systematic search strategies, synthesis and quality assessment of the best available evidence to support the recommendations; appropriate collection and management of experts' declared conflict of interest; expert group composition including content experts, methodologists, target users, policy makers, with gender and geographical balance; instructions for the management of group process to achieve consensus among experts; standards for a transparent decision-making process, taking into consideration potential harms and benefits, end users values and preferences; developing plans for implementing and adapting guidelines; and minimum standards for reporting.--Publisher description***

***Valuation Techniques from Today's Top Practitioners***

***Individual Participant Data Meta-Analysis***

***The REGTECH Book***

***Handbook of Sea-Level Research***

***A Handbook for Healthcare Research***

***The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries in Regulation***

Healthcare decision makers in search of reliable information that compares health interventions increasingly turn to systematic reviews for the best summary of the evidence. Systematic reviews identify, select, assess, and synthesize the findings of similar but separate studies, and can help clarify what is known and not known about the potential benefits and harms of drugs, devices, and other healthcare services. Systematic reviews can be helpful for clinicians who want to integrate research findings into their daily practices, for patients to make well-informed choices about their own care, for professional medical societies and other organizations that develop clinical practice guidelines. Too often systematic reviews are of uncertain or poor quality. There are no universally accepted standards for developing systematic reviews leading to variability in how conflicts of interest and biases are handled, how evidence is appraised, and the overall scientific rigor of the process. In Finding What Works in Health Care the Institute of Medicine (IOM) recommends 21 standards for developing high-quality systematic reviews of comparative effectiveness research. The standards address the entire systematic review process from the initial steps of formulating the topic and building the review team to producing a detailed final report that synthesizes what the evidence shows and where knowledge gaps remain. Finding What Works in Health Care also proposes a framework for improving the quality of the science underpinning systematic reviews. This book will serve as a vital resource for both sponsors and producers of systematic reviews of comparative effectiveness research.

"Medical nihilism is the view that we should have little confidence in the effectiveness of medical interventions. This book argues that medical nihilism is a compelling view of modern medicine. If we consider the frequency of failed medical interventions, the extent of misleading evidence in medical research, the thin theoretical basis of many interventions, and the malleability of empirical methods in medicine, and if we employ our best inductive framework, then our confidence in the effectiveness of medical interventions ought to be low" --

Learn how to place communication and participation at the heart of evidence-based healthcare The Knowledgeable Patient: Communication and Participation in Health sits at the forefront of the challenging, changing 21st century landscape. The 'knowledgeable patient' as an individual can take many forms: patient, family carer, consumer advocate, or member of the public interested in health issues. In each of these roles, knowledgeable patients interact with health professionals by asking questions about the evidence for treatment, seeking support, exchanging views, and contributing experiences and new ideas on how to improve the health system. Drawing from several research paradigms, The Knowledgeable Patient is an essential guide to a new era of complex healthcare. Integrating consumer stories and evidence from systematic reviews, it examines key communication and participation issues in a range of contexts, including: surgery safe medicine use chronic disease self management the complexity of multimorbidity notification of rare disease risk. The Knowledgeable Patient is international in scope with researched examples spanning living in the community, health service treatment, governance, and policy making. It provides health professionals with new ideas, concepts, evidence, and practical tools to understand the central role of communication and participation to a well-functioning health system. It is an ideal reference for undergraduate and postgraduate students studying the health sciences. Watch a video about The Knowledgeable Patient: Communication and Participation in Health from the author, Sophie Hill: bit.ly/xNYCqG

Healthcare providers, consumers, researchers and policy makers are inundated with unmanageable amounts of information, including evidence from healthcare research. It has become impossible for all to have the time and resources to find, appraise and interpret this evidence and incorporate it into healthcare decisions. Cochrane Reviews respond to this challenge by identifying, appraising and synthesizing research-based evidence and presenting it in a standardized format, published in The Cochrane Library (www.thecochranelibrary.com). The Cochrane Handbook for Systematic Reviews of Interventions contains methodological guidance for the preparation and maintenance of Cochrane intervention reviews. Written in a clear and accessible format, it is the essential manual for all those preparing, maintaining and reading Cochrane reviews. Many of the principles and methods described here are appropriate for systematic reviews applied to other types of research and to systematic reviews of interventions undertaken by others. It is hoped therefore that this book will be invaluable to all those who want to understand the role of systematic reviews, critically appraise published reviews or perform reviews themselves. This title is also available as a mobile App from MedHand Mobile Libraries. Buy it now from Google Play or the MedHand Store.

Evidence-Based Practice Across the Health Professions

Doing Meta-Analysis with R

Network Meta-Analysis for Decision-Making

The Routledge Handbook of Green Social Work

Bad Science

Synthesizing Quantitative Evidence

**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.**

The informative and witty expose of the "bad science" we are all subjected to, called "one of the essential reads of the year" by New Scientist. We are obsessed with our health. And yet – from the media's "world-expert microbiologist" with a mail-order Ph.D. in his garden shed laboratory, and via multiple health scares and miracle cures – we are constantly bombarded with inaccurate, contradictory, and sometimes even misleading information. Until now. Ben Goldacre masterfully dismantles the questionable science behind some of the great drug trials, court cases, and missed opportunities of our time, but he also goes further: out of the bullshit, he shows us the fascinating story of how we know what we know, and gives us the tools to uncover bad science for ourselves.

The Regulatory Technology Handbook The transformational potential of RegTech has been confirmed in recent years with US\$1.2 billion invested in start-ups (2017) and an expected additional spending of US\$100 billion by 2020. Regulatory technology will not only provide efficiency gains for compliance and reporting functions, it will radically change market structure and supervision. This book, the first of its kind, is providing a comprehensive and invaluable source of information aimed at corporates, regulators, compliance professionals, start-ups and policy makers. The REGTECH Book brings into a single volume the curated industry expertise delivered by subject matter experts. It serves as a single reference point to understand the RegTech eco-system and its impact on the industry. Readers will learn foundational notions such as:
• The economic impact of digitization and datafication of regulation
• How new technologies (Artificial Intelligence, Blockchain) are applied to compliance
• Business use cases of RegTech for cost-reduction and new product origination
• The future regulatory landscape affecting financial institutions, technology companies and other industries Edited by world-class academics and written by compliance professionals, regulators, entrepreneurs and business leaders, the RegTech Book represents an invaluable resource that paves the way for 21st century regulatory innovation.

Hack your antivirus software to stamp out future vulnerabilities The Antivirus Hacker's Handbook guides you through the process of reverse engineering antivirus software. You explore how to detect and exploit vulnerabilities that can be leveraged to improve future software design, protect your network, and anticipate attacks that may sneak through your antivirus' line of defense. You'll begin building your knowledge by diving into the reverse engineering process, which details how to start from a finished antivirus software program and work your way back through its development using the functions and other key elements of the software. Next, you leverage your new knowledge about software development to evade, attack, and exploit antivirus software—all of which can help you strengthen your network and protect your data. While not all viruses are damaging, understanding how to better protect your computer against them can help you maintain the integrity of your network. Discover how to reverse engineer your antivirus software Explore methods of antivirus software evasion Consider different ways to attack and exploit antivirus software Understand the current state of the antivirus software market, and get recommendations for users and vendors who are leveraging this software The Antivirus Hacker's Handbook is the essential reference for software reverse engineers, penetration testers, security researchers, exploit writers, antivirus vendors, and software engineers who want to understand how to leverage current antivirus software to improve future applications.

The Valuation Handbook

Systematic Reviews in the Social Sciences

Evidence-Based Clinical Practice in Exotic Animal Medicine, An Issue of Veterinary Clinics of North America: Exotic Animal Practice

Global Handbook of Impact Investing

A Cochrane Handbook of Alcohol and Drug Misuse

Suggestions to Medical Authors and A.M.A. Style Book

**This publication was prepared to promote and to provide support in the implementation of the Code of Conduct for Responsible Fisheries, especially Article 7 : Fisheries Management. As such, it also, supplements the FAO Technical Guidelines for Responsible Fisheries NO.4: Fisheries management. It is intended primarily for the practising fishery manager and decision-maker, with particular emphasis on developing countries, although it is hoped that the volume will also be of interest to managers in developed countries.**

**For adults. There is a pressing need for methodologically sound RCTs to confirm whether such interventions are helpful and, if so, for whom.**

**"The Oxford Handbook of Prehistoric Oceania presents the archaeology, linguistics, environment and human biology of Melanesia, Micronesia, and Polynesia. First colonized 50,000 years ago, Oceania witnessed the independent invention of agriculture, the construction of Easter Island's statues, and the development of the word's last archaic states."--Provided by publisher.**

**Showing you how to take a structured and organized approach to a wide range of literature review types, this book helps you to choose which approach is right for your research. Packed with constructive tools, examples, case studies and hands-on exercises, the book covers the full range of literature review techniques. New to This Edition: Full re-organization takes you step-by-step through the process from beginning to end New chapter showing you how to choose the right method for your project Practical guidance on integrating qualitative and quantitative data New coverage of rapid reviews Comprehensive inclusion of literature review tools, including concept analysis, scoping and mapping With an emphasis on the practical skills, this guide is essential for any student or researcher needing to get from first steps to a successful literature review.**

**Introduction to Meta-Analysis**

**A practical clinical guide  
Handbook of EHealth Evaluation  
The Mixed Methods Research Synthesis Approach  
Finding What Works in Health Care  
Who Handbook for Guideline Development**

Providing step-by-step instruction for conducting a mixed methods research synthesis (MMRS) that integrates both qualitative and quantitative evidence, this book progresses through a systematic, comprehensive approach to conducting an MMRS literature review to analyze and summarize the empirical evidence regarding a particular review question. Readers will benefit from discussion of the potential advantages of MMRS and guidance on how to avoid its potential pitfalls. Using Mixed Methods Research Synthesis for Literature Reviews is Volume 4 in the SAGE Mixed Methods Research Series. To learn more about each text in the series, please visit [www.sagepub.com/mmrs](http://www.sagepub.com/mmrs).

Edited by Rajnish Mehra, this volume focuses on the equity risk premium puzzle, a term coined by Mehra and Prescott in 1985 which encompasses a number of empirical regularities in the prices of capital assets that are at odds with the predictions of standard economic theory.

The second edition of Handbook of Practical Program Evaluation offers managers, analysts, consultants, and educators in government, nonprofit, and private institutions a valuable resource that outlines efficient and economical methods for assessing program results and identifying ways to improve program performance. The Handbook has been thoroughly revised. Many new chapters have been prepared for this edition, including chapters on logic modeling and on evaluation applications for small nonprofit organizations. The Handbook of Practical Program Evaluation is a comprehensive resource on evaluation, covering both in-depth program evaluations and performance monitoring. It presents evaluation methods that will be useful at all levels of government and in nonprofit organizations.

Discover how to invest your capital to achieve a powerful, lasting impact on the world. The Global Handbook of Impact Investing: Solving Global Problems Via Smarter Capital Markets Towards A More Sustainable Society is an insightful guide to the growing world-wide movement of Impact Investing. Impact investors seek to realize lasting, beneficial improvements in society by allocating capital to sources of impactful and sustainable profit. This Handbook is a how-to guide for institutional investors, including family offices, foundations, endowments, governments, and international organizations, as well as academics, students, and everyday investors globally. The Handbook’s wide-ranging contributions from around the world make a powerful case for positive impact and profit to fund substantive, lasting solutions that solve critical problems across the world. Edited by two experienced and distinguished professionals in the sustainable investing arena and authored by two dozen renowned experts from finance, academia, and multilateral organizations from around the world, the Global Handbook of Impact Investing educates, inspires, and spurs action towards more responsible investing across all asset classes, resulting in smarter capital markets, including how to: · Realize positive impact and profit · Integrate impact into investment decision-making and portfolio · Allocate impactful investments across all asset classes · Apply unique Impact Investing frameworks · Measure, evaluate and report on impact · Learn from case examples around the globe · Pursue Best Practices in Impact Investing and impact reporting While other resources may take a local or limited approach to the subject, this Handbook gathers global knowledge and results from public and private institutions spanning five continents. The authors also make a powerful case for the ability of Impact Investing to lead to substantive and lasting change that addresses critical problems across the world.

Using Mixed Methods Research Synthesis for Literature Reviews

Asset Pricing

The Knowledgeable Patient

ESC Handbook of Cardiovascular Rehabilitation

Solving Global Problems Via Smarter Capital Markets Towards A More Sustainable Society

Evidence, policy, impact. WHO guide for evidence-informed decision-making

*Measuring sea-level change – be that rise or fall – is one of the most pressing scientific goals of our time and requires robust scientific approaches and techniques. This Handbook aims to provide a practical guide to readers interested in this challenge, from the initial design of research approaches through to the practical issues of data collection and interpretation from a diverse range of coastal environments. Building on thirty years of international research, the Handbook comprises 38 chapters that are authored by leading experts from around the world. The Handbook will be an important resource to scientists interested and involved in understanding sea-level changes across a broad range of disciplines, policy makers wanting to appreciate our current state of knowledge of sea-level change over different timescales, and many teachers at the university level, as well as advanced-level undergraduates and postgraduate research students, wanting to learn more about sea-level change. Additional resources for this book can be found at: [ahref="http://www.wiley.com/go/shennan/sealevel"](http://www.wiley.com/go/shennan/sealevel) [www.wiley.com/go/shennan/sealevel](http://www.wiley.com/go/shennan/sealevel)*

*The definitive guide to valuation written by a who’s who of today’s top practitioners The Valuation Handbook differs significantly from other related books on this topic because the contributors are practitioners, academics, and investment firms that explain how they value companies and other assets. It concentrates on specific and innovative valuation techniques, rather than the theoretical approaches more generally accepted and discussed. Given the extreme volatility of the stock market, valuation is a critical issue for analysts, investors, and businesses. Here, various professional contributors explain how their firms approach the valuation process, while academic contributors share their valuation consulting and research experience. Examines how to value assets in today’s dynamic market setting Offers a broad spectrum of ideas from some of the top practitioners and academics in this field Highlights state-of-the-art approaches to company valuation Filled with in-depth insights and expert advice, The Valuation Handbook puts this difficult discipline in perspective.*

*Winner of the prestigious Paul A. Samuelson Award for scholarly writing on lifelong financial security, John Cochrane’s Asset Pricing now appears in a revised edition that unifies and brings the science of asset pricing up to date for advanced students and professionals. Cochrane traces the pricing of all assets back to a single idea--price equals expected discounted payoff--that captures the macro-economic risks underlying each security’s value. By using a single, stochastic discount factor rather than a separate set of tricks for each asset class, Cochrane builds a unified account of modern asset pricing. He presents applications to stocks, bonds, and options. Each model--consumption based, CAPM, multifactor, term structure, and option pricing--is derived as a different specification of the discounted factor. The discount factor framework also leads to a state-space geometry for mean-variance frontiers and asset pricing models. It puts payoffs in different states of nature on the axes rather than mean and variance of return, leading to a new and conveniently linear geometrical representation of asset pricing ideas. Cochrane approaches empirical work with the Generalized Method of Moments, which studies sample average prices and discounted payoffs to determine whether price does equal expected discounted payoff. He translates between the discount factor, GMM, and state-space language and the beta, mean-variance, and regression language common in empirical work and earlier theory. The book also includes a review of recent empirical work on return predictability, value and other puzzles in the cross section, and equity premium puzzles and their resolution. Written to be a summary for academics and professionals as well as a textbook, this book condenses and advances recent scholarship in financial economics.*

*This issue of Veterinary Clinics of North America: Exotic Animal Practice, Edited by Drs. Nicola Di Girolamo and Alexandra Winter, focuses on Evidence-Based Clinical Practice in Exotic Animal Medicine. Topics include: Why should we direct our efforts toward evidence-based practice and knowledge creation?; Practical application of evidence-based practice; Evidence-based advances in avian medicine; Evidence-based advances in reptile medicine; Evidence-based advances in rabbit medicine; Evidence-based advances in ferret medicine; Evidence-based advances in rodent medicine; Evidence-based advances in fish and aquatic animal medicine; Evidence-based analgesia in exotic animals; Evidence-based anesthesia in exotic animals; Evidence-based reptile housing and nutrition; Evidence-based rabbit housing and nutrition; Basic statistics for the exotic animal practitioner (numerical outcomes, P values, t-test, anova); Advanced statistics for the exotic animal practitioner (categorical data, logistic regression, confidence intervals); Basics of systematic review and meta-analysis for the exotic animal practitioner; Evidence-based information resources for the exotic animal practitioner; and How to report exotic animal research.*

*Quacks, Hacks, and Big Pharma Flacks*

*Communication and Participation in Health*

*Medical Nihilism*

*The Handbook of Municipal Bonds*

*The Oxford Handbook of Prehistoric Oceania*

*Management Measures and Their Application*

The Handbook of Personality Assessment provides comprehensive guidance on the administration, scoring, and interpretation of the most widely-used instruments. Written by two of the field’s foremost authorities, this well-balanced guide blends theory and application to provide a foundational reference for both graduate students and professionals. Updated to reflect the most current advances, this second edition includes new chapters on the Minnesota Personality Inventory-Restructured Form and the Rorschach Performance Assessment System, along with in-depth coverage of the MMPI-2, MMPI-2-A, MCMI-IV, PAI, NEO-PI-R, Rorschach Comprehensive System, TAT, and Figure Drawing and Sentence Completion Methods. Each instrument is discussed in terms of its history, administration, scoring, validity, assessment, interpretation, applications, and psychometric foundations, and other chapters address ethical considerations and provide general guidelines in the assessment process. Personality assessments guide recommendations in a broad range of clinical, health care, forensic, educational, and organizational settings. This book delves deeply into the nature and appropriate use of the major assessment instruments, with authoritative insight and practical guidance. Review the latest concepts, research, and practices Administer, score, and interpret the most widely-used instruments Understand the psychometric foundations of personality assessment Access downloadable sample reports that illustrate software interpretation An individual’s nature and disposition can be assessed in several ways. This book focuses on standardized psychological tests that assess personality characteristics and indicate how a person is likely to think, feel, and act. The results can only be as accurate as the process, from assessment selection and administration, to scoring, interpretation, and beyond. The Handbook of Personality Assessment is an invaluable resource for every stage of the process, with a practical focus and advice from two leading experts.

This book provides a clear and thorough introduction to meta-analysis, the process of synthesizing data from a series of separate studies. Meta-analysis has become a critically important tool in fields as diverse as medicine, pharmacology, epidemiology, education, psychology, business, and ecology. Introduction to Meta-Analysis: Outlines the role of meta-analysis in the research process Shows how to compute effects sizes and treatment effects Explains the fixed-effect and random-effects models for synthesizing data Demonstrates how to assess and interpret variation in effect size across studies Clarifies concepts using text and figures, followed by formulas and examples Explains how to avoid common mistakes in meta-analysis Discusses controversies in meta-analysis Features a web site with additional material and exercises A superb combination of lucid prose and informative graphics, written by four of the world ’ s leading experts on all aspects of meta-analysis. Borenstein, Hedges, Higgins, and Rothstein provide a refreshing departure from cookbook approaches with their clear explanations of the what and why of meta-analysis. The book is ideal as a course textbook or for self-study. My students, who used pre-publication versions of some of the chapters, raved about the clarity of the explanations and examples. David Rindskopf, Distinguished Professor of Educational Psychology, City University of New York, Graduate School and University Center, & Editor of the Journal of Educational and Behavioral Statistics. The approach taken by Introduction to Meta-analysis is intended to be primarily conceptual, and it is amazingly successful at achieving that goal. The reader can comfortably skip the formulas and still understand their application and underlying motivation. For the more statistically sophisticated reader, the relevant formulas and worked examples provide a superb practical guide to performing a meta-analysis. The book provides an eclectic mix of examples from education, social science, biomedical studies, and even ecology. For anyone considering leading a course in meta-analysis, or pursuing self-directed study, Introduction to Meta-analysis would be a clear first choice. Jesse A. Berlin, ScD Introduction to Meta-Analysis is an excellent resource for novices and experts alike. The book provides a clear and comprehensive presentation of all basic and most advanced approaches to meta-analysis. This book will be referenced for decades. Michael A. McDaniel, Professor of Human Resources and Organizational Behavior, Virginia Commonwealth University

Healthcare providers, consumers, researchers and policy makers are inundated with unmanageable amounts of information, including evidence from healthcare research. It has become impossible for all to have the time and resources to find, appraise and interpret this evidence and incorporate it into healthcare decisions. Cochrane Reviews respond to this challenge by identifying, appraising and synthesizing research-based evidence and presenting it in a standardized format, published in The Cochrane Library ([www.thecochranelibrary.com](http://www.thecochranelibrary.com)). The Cochrane Handbook for Systematic Reviews of Interventions contains methodological guidance for the preparation and maintenance of Cochrane intervention reviews. Written in a clear and accessible format, it is the essential manual for all those preparing, maintaining and reading Cochrane reviews. Many of the principles and methods described here are appropriate for systematic reviews applied to other types of research and to systematic reviews of interventions undertaken by others. It is hoped therefore that this book will be invaluable to all those who want to understand the role of systematic reviews, critically appraise published reviews or perform reviews themselves.

There is constant pressure for clinicians to practise evidence-based medicine. Cochrane Reviews are an important source of the evidence which informs clinical decisions but can still require considerable time to read and digest. This Cochrane Handbook of Alcohol and Drug Misuse serves as a concise guide to the evidence base for relevant interventions, highlighting the key points of Cochrane reviews for the busy practitioner. Each review is analysed in a structured format, starting with the question, a brief background and a summary answer, followed by the results presented in comprehensive and concise way. The authors then illustrate the value that the review adds to the current knowledge, the main methodological limitations of the included studies and finally the implications of the review’s conclusions for future research. Addiction to drugs and alcohol is an increasing problem that all clinicians have to deal with. This is especially true for medical and family specialists but more so for those dealing with psychiatric, psychological and social problems. The benefit of having the evidence underpinning the clinical approach to all aspects of this topic cannot be underestimated. The book’s comprehensive coverage of interventions provides an authoritative reference for all physicians working with these patients, from family practitioners to clinical specialists and psychiatric specialists. With addition to drugs and alcohol an increasingly serious morbidity and public health issue, this book from the Cochrane Collaboration will find a wide audience.

Systematic Approaches to a Successful Literature Review

Patologia Oral e Maxilofacial

The Antivirus Hacker’s Handbook

Handbook of Practical Program Evaluation

A Practical Guide

A Fishery Manager’s Guidebook

**Provides a foundation in the knowledge and skills necessary to perform and understand the implications of evidence-based practice within a healthcare environment. Hoffmann and Bennett, University of Queensland; Del Mar, Bond University, Australia.**

**In The Handbook of Municipal Bonds, editors Sylvan Feldstein and Frank Fabozzi provide traders, bankers, and advisors—among other industry participants—with a well-rounded look at the industry of tax-exempt municipal bonds. Chapter by chapter, a diverse group of experienced contributors provide detailed explanations and a variety of relevant examples that illuminate essential elements of this area. With this book as your guide, you’ll quickly become familiar with both buy side and sell side issues as well as important innovations in this field.**

**To order please visit <https://onlineacademiccommunity.uvic.ca/press/books/ordering/>**

**Green social work espouses a holistic approach to all peoples and other living things – plants and animals, and the physical ecosystem; emphasises the relational nature of all its constituent parts; and redefines the duty to care for and about others as one that includes the duty to care for and about planet earth. By acknowledging the interdependency of all living things it allows for the inclusion of all systems and institutions in its remit, including both (hu)man-made and natural disasters arising from the (hu)made ones of poverty to chemical pollution of the earth’s land, waters and soils and climate change, to the natural hazards like earthquakes and volcanoes which turn to disasters through human (in)action. Green social work’s value system is also one that favours equality, social inclusion, the equitable distribution of resources, and a rights-based approach to meeting people’s needs to live in an ethical and sustainable manner. Responding to these issues is one of the biggest challenges facing social workers in the twenty-first century which this Handbook is intended to address. Through providing the theories, practices, policies, knowledge and skills required to act responsibly in responding to the diverse disasters that threaten to endanger all living things and planet earth itself, this green social work handbook will be required reading for all social work students, academics and professionals, as well as those working in the fields of community development and disaster management.**

**An Evidence-Based Approach**

**Handbook of Personality Assessment**

**Designing Clinical Research**

**Handbook of the Equity Risk Premium**

**With a Guide to Abbreviation of Bibliographic References ; for the Guidance of Authors, Editors, Compositors, and Proofreaders**

**Standards for Systematic Reviews**

A practical guide to network meta-analysis with examples and code In the evaluation of healthcare, rigorous methods of quantitative assessment are necessary to establish which interventions are effective and cost-effective. Often a single study will not provide the answers and it is desirable to synthesise evidence from multiple sources, usually randomised controlled trials. This book takes an approach to evidence synthesis that is specifically intended for decision making when there are two or more treatment alternatives being evaluated, and assumes that the purpose of every synthesis is to answer the question “for this pre-identified population of patients, which treatment is ‘best’?” A comprehensive, coherent framework for network meta-analysis (mixed treatment comparisons) is adopted and estimated using Bayesian Markov Chain Monte Carlo methods implemented in the freely available software WinBUGS. Each chapter contains worked examples, exercises, solutions and code that may be adapted by readers to apply to their own analyses. This book can be used as an introduction to evidence synthesis and network meta-analysis, its key properties and policy implications. Examples and advanced methods are also presented for the more experienced reader. Methods used throughout this book can be applied consistently: model critique and checking for evidence consistency are emphasised. Methods are based on technical support documents produced for NICE Decision Support Unit, which support the NICE Methods of Technology Appraisal. Code presented is also the basis for the code used by the ISPOR Task Force on Indirect Comparisons. Includes extensive carefully worked examples, with thorough explanations of how to set out data for use in WinBUGS and how to interpret the output. Network Meta-Analysis for Decision Making will be of interest to decision makers, medical statisticians, health economists, and anyone involved in Health Technology Assessment including the pharmaceutical industry.

The importance of evidence-informed approaches in policy formulation and implementation has long been recognized by the World Health Organization (WHO) and its Member States. With the General Programme of Work (GPW)13 and the creation of the Science Division, WHO has reinforced its science and evidence-based mandate. This guide offers staff and partner organizations a compendium of WHO tools to successfully leverage evidence for policy and impact, and promote evidence-informed decision-making for safe and effective health policy and practice at country and global levels. Through its framework, the guide will increase awareness and uptake of existing tools and best practices, and additionally facilitate collaboration between areas within the Organization and with partners across countries and regions.

Designing Clinical Research sets the standard for providing a practical guide to planning, tabulating, formulating, and implementing clinical research, with an easy-to-read, uncomplicated presentation. This edition incorporates current research methodology—including molecular and genetic clinical research—and offers an updated syllabus for conducting a clinical research workshop. Emphasis is on common sense as the main ingredient of good science. The book explains how to choose well-focused research questions and details the steps through all the elements of study design, data collection, quality assurance, and basic grant-writing. All chapters have been thoroughly revised, updated, and made more user-friendly.

Cochrane Handbook for Systematic Reviews of Interventions

CRD's Guidance for Undertaking Reviews in Health Care