

An Introduction to
RANDOMIZED
Controlled
Clinical Trials

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An Introduction To Randomised Controlled Clinical Trials

John N.S. Matthews



An Introduction To Randomised Controlled Clinical Trials:

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Randomised Controlled Clinical Trials Christopher J. Bulpitt, 2013-04-17 Bradford Hill has defined a clinical trial as 'A carefully and ethically designed experiment with the aim of answering some precisely framed question'. This definition specifies a careful design and requires the provision of adequate controls. Random allocation of treatments to subjects is important to ensure that the treated and control groups are similar. Therefore, this book, *Randomised Controlled Clinical Trials*, defines a randomised controlled trial by rewriting Bradford Hill's definition as follows: 'A carefully and ethically designed experiment which includes the provision of adequate and appropriate controls by a process of randomisation so that precisely framed questions can be answered'. I am a firm advocate of *Randomised Controlled Clinical Trials* but intend to give a balanced view of the advantages and disadvantages of these ethical experiments. This book is directed primarily at the medical research worker, although certain chapters may find a wider application. When discussing a randomised controlled trial, it is neither practicable nor desirable to divorce theory from practice; however, the first ten chapters concentrate mainly on theory and the remainder focus on practice. The segment on

trial design is followed by sections on writing the protocol designing the forms conducting the trial and analysing the results This book is meant to serve both as a reference manual and a practical guide to the design and performance of a trial

An Introduction to Clinical Trials Jonathan A. Cook, 2023-05-17 An Introduction to clinical trials is a concise step by step guide to the principles and practices of clinical trials for those studying clinical trials or new to working on one Clinical trials are critical to the progress of medicine and improving healthcare as they evaluate whether new treatments and interventions work They are also complex multidisciplinary projects that integrate science ethics and legal requirements in the conduct of medical research Starting with the research question An Introduction to clinical trials explains study design sample size determination study set up study conduct statistical analysis and dissemination of the results The book primarily focusses on randomised controlled trials as the ultimate clinical trial It demystifies the terminology used in clinical trials research and presents the underlying scientific and statistical concepts Real life examples are used throughout to bring concepts to life Written by an experienced medical statistician An Introduction to clinical trials will benefit readers of all backgrounds from postgraduate and medical students trainee doctors and healthcare professionals to others working on clinical trials in a professional capacity This book aims to help readers gain a fuller and more rounded understanding of clinical trials

An Introduction to Clinical Research for Health and Social Care Professionals Ario Santini, Kenneth A Eaton, 2022-05-22 With the increasing emphasis on evidence based practice there is a need for all health and social care professionals to understand the principles of general and clinical research In the United Kingdom and several other countries this had led to a proliferation of advanced programs including for those seeking doctorate degrees In this book the editors introduce readers to the principles and practice of clinical research Eighteen chapters and three appendices provide guidance on the different stages of a research project from inception to the dissemination of results Topics include steps to engage in practice based research ethical questions surrounding research sources of funding collecting and collating data Contributing authors emphasize the need to critically appraise literature before carrying out a research project They also explain the stages of a research project and share insights on where to go for more information The book includes an index a glossary and charts and figures to promote learning Discussion questions reinforce critical material

A Practical Guide to Cluster Randomised Trials in Health Services Research Sandra Eldridge, Sally Kerry, 2012-02-20 Cluster randomised trials are trials in which groups or clusters of individuals are randomly allocated to different forms of treatment In health care these trials often compare different ways of managing a disease or promoting healthy living in contrast to conventional randomised trials which randomise individuals to different treatments classically comparing new drugs with a placebo They are increasingly common in health services research This book addresses the statistical practical and ethical issues arising from allocating groups of individuals or clusters to different interventions Key features Guides readers through the stages of conducting a trial from recruitment to reporting Presents a wide range of examples with particular emphasis on trials in health services research

and primary care with both principles and techniques explained Topics are specifically presented in the order in which investigators think about issues when they are designing a trial Combines information on the latest developments in the field together with a practical guide to the design and implementation of cluster randomised trials Explains principles and techniques through numerous examples including many from the authors own experience Includes a wide range of references for those who wish to read further This book is intended as a practical guide written for researchers from the health professions including doctors psychologists and allied health professionals as well as statisticians involved in the design execution analysis and reporting of cluster randomised trials Those with a more general interest will find the plentiful examples illuminating

The Handbook of Clinical Trials and Other Research Alan Earl-Slater, 2002 This practical handbook includes all the main clinical trial and general research terms and is illustrated with real life examples diagrams and tables It also includes material on research ethical committees and incorporates recent international developments such as the EU Clinical Trials Directive The research methods and issues identified are universal crossing countries and disciplines It can be used as a reference tool an introduction to learning about clinical trials as a refresher to those involved in clinical research or to check that the correct terms are being used in the correct context Readily available references are included that can be used by the reader to further support their own work

Introduction to Surgical Trials Stephen Lyman, Olufemi R. Ayeni, Jason L. Koh, Norimasa Nakamura, Jón Karlsson, 2025-02-25 Filling a gap in literature this book examines surgical trials with a special focus on the underlying principles challenges and best practices to successfully conduct rigorous surgical research While randomized controlled trials RCTs remain the gold standard for evaluation of the safety and efficacy of most medical interventions they are particularly difficult to implement successfully in the context of surgery As a result recruitment rates are often extremely low crossover from non operative to operative is common and patients randomly allocated to surgery often simply decline to have the procedure All of these challenges call into question the recent generalizability and fundamental quality of traditional surgical RCTs As such this book explores advanced alternative trial design methods and describes the current regulatory environment around the world Designed as a practical guide it is a valuable tool for surgeons epidemiologist and biostatisticians involved in this challenging field

Research Methods in Psychiatry Chris Freeman, Peter J. Tyrer, Peter Tyrer, 2006-12 This updated comprehensive guide to psychiatric research methods takes the reader from getting started in research through to publishing a paper with advice on avoiding common pitfalls along the way Systematic analysis and meta analysis epidemiology qualitative research and research focused on a few patients are discussed together with the principles of validity and reliability in the assessment of psychological variables and statistical aspects of the design and analysis of clinical trials Five completely new chapters cover topics such as research from the trainee s perspective and research in learning disability and child and adolescent psychiatry A key text for psychiatric trainees embarking on research projects this book will also be useful to psychiatrists supervising research

projects and those in the social sciences with an interest in carrying out research or critically reviewing the published evidence Topics covered include setting up a research project how to make a comprehensive review of the literature choosing a rating scale and getting research published

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