

Lawrence M. Friedman
Curt D. Furberg
David L. DeMets

Fundamentals of Clinical Trials

4th Edition

 Springer

Fundamentals Of Clinical Trials Fourth Edition

Leslie Gross Portney, Mary P. Watkins



Fundamentals Of Clinical Trials Fourth Edition

Fundamentals of Clinical Trials Lawrence M. Friedman, Curt D. Furberg, David L. DeMets, 2010-09-09 The clinical trial is the most definitive tool for evaluation of the applicability of clinical research. It represents a key research activity with the potential to improve the quality of health care and control costs through careful comparison of alternative treatments. It has been called on many occasions the gold standard against which all other clinical research is measured. Although many clinical trials are of high quality, a careful reader of the medical literature will notice that a large number have deficiencies in design, conduct, analysis, presentation, and/or interpretation of results. Improvements have occurred over the past few decades, but too many trials are still conducted without adequate attention to its fundamental principles. Certainly numerous studies could have been upgraded if the authors had had a better understanding of the fundamentals. Since the publication of the first edition of this book, a large number of other texts on clinical trials have appeared, most of which are indicated here. Several of them, however, discuss only specific issues involved in clinical trials. Additionally, many are no longer current. The purpose of this fourth edition is to update areas in which major progress has been made since the publication of the third edition. We have revised most chapters considerably and added one on ethical issues.

Fundamentals of Clinical Trials Lawrence M. Friedman, Curt Furberg, David L. DeMets, 1998 This classic reference, now updated with the newest applications and results, addresses the fundamentals of such trials based on sound scientific methodology, statistical principles, and years of accumulated experience by the three authors.

Fundamentals of Clinical Trials Lawrence M. Friedman, Curt D. Furberg, David L. DeMets, David M. Reboussin, Christopher B. Granger, 2015-08-27 This is the fifth edition of a very successful textbook on clinical trials methodology, written by recognized leaders who have long and extensive experience in all areas of clinical trials. The three authors of the first four editions have been joined by two others who add great expertise. A chapter on regulatory issues has been included, and the chapter on data monitoring has been split into two and expanded. Many contemporary clinical trial examples have been added. There is much new material on adverse events, adherence issues, in analysis, electronic data, data sharing, and international trials. This book is intended for the clinical researcher who is interested in designing a clinical trial and developing a protocol. It is also of value to researchers and practitioners who must critically evaluate the literature of published clinical trials and assess the merits of each trial and the implications for the care and treatment of patients. The authors use numerous examples of published clinical trials to illustrate the fundamentals. The text is organized sequentially from defining the question to trial closeout. One chapter is devoted to each of the critical areas to aid the clinical trial researcher. These areas include: pre-specifying the scientific questions to be tested and appropriate outcome measures; determining the organizational structure; estimating an adequate sample size; specifying the randomization procedure; implementing the intervention and visit schedules for participant evaluation; establishing an interim data and safety monitoring plan; detailing the final analysis plan and reporting the trial results according to the pre-specified objectives. Although a basic introductory statistics course is helpful in maximizing the benefit of this book, a researcher or practitioner with limited statistical background would still find most, if not all, the chapters understandable and helpful. While the technical material has been kept to a minimum, the statistician may still find the principles and fundamentals presented in this text useful.

Foundations of Clinical Research Leslie Gross Portney, Mary P. Watkins, 2015 Draw upon the foundations necessary for finding and interpreting research evidence across all healthcare professions Revised to reflect the most current changes in the field of clinical research in rehabilitation and medicine you will find a growing emphasis on evidence based practice EBP as well as new vocabulary that is being integrated into research and practice across disciplines

Designing Clinical Research Stephen B. Hulley, Steven R. Cummings, Warren S. Browner, Deborah G. Grady, Thomas B. Newman, 2011-11-30 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

Textbook of Clinical Trials David Machin, Simon Day, Sylvan Green, 2007-01-11 Now published in its Second Edition the Textbook of Clinical Trials offers detailed coverage of trial methodology in diverse areas of medicine in a single comprehensive volume Praise for the First Edition very useful as an introduction to clinical research or for those planning specific studies within therapeutic or disease areas BRITISH JOURNAL OF SURGERY Vol 92 No 2 February 2005 The book's main concept is to describe the impact of clinical trials on the practice of medicine It separates the information by therapeutic area because the impact of clinical trials the problems encountered and the numbers of trials in existence vary tremendously from specialty to specialty The sections provide a background to the disease area and general clinical trial methodology before concentrating on particular problems experienced in that area Specific examples are used throughout to address these issues The Textbook of Clinical Trials Second Edition Highlights the various ways clinical trials have influenced the practice of medicine in many therapeutic areas Describes the challenges posed by those conducting clinical trials over a range of medical specialties and allied fields Additional therapeutic areas are included in this Second Edition to fill gaps in the First Edition as the number and complexity of trials increases in this rapidly developing area Newly covered or updated in the Second Edition general surgery plastic surgery aesthetic surgery palliative care primary care anaesthesia and pain transfusion wound healing maternal and perinatal health early termination organ transplants ophthalmology epilepsy infectious disease neuro oncology adrenal thyroid and urological cancers as well as a chapter on the Cochrane network An invaluable resource for pharmaceutical companies the Textbook of Clinical Trials Second Edition appeals to those working in contract research organizations medical departments and in the area of public health and health science alike

Principles and Practice of Clinical Research John I. Gallin, Frederick P Ognibene, 2011-04-28 The second edition of this innovative work again provides a unique perspective on the clinical discovery process by providing input from experts within the NIH on the principles and practice of clinical research Molecular medicine genomics and proteomics have opened vast opportunities for translation of basic science observations to the bedside through clinical research As an introductory reference it gives clinical investigators in all fields an awareness of the tools required to ensure research protocols are well designed and comply with the rigorous regulatory requirements necessary to maximize the safety of research subjects Complete with sections on the history of clinical research and ethics copious figures and charts and sample documents it serves as an excellent companion text for any course on clinical research and as a must have reference for seasoned researchers Incorporates new chapters on Managing Conflicts of Interest in Human Subjects Research Clinical Research from the Patient s Perspective The Clinical Researcher and the Media Data Management in Clinical Research Evaluation of a Protocol Budget Clinical Research from the Industry Perspective and Genetics in Clinical Research Addresses the vast opportunities for translation of basic science observations to the bedside through clinical research Delves into data management and addresses how to collect data and use it for discovery Contains valuable up to date information on how to obtain funding from the federal government

Fundamentals of Clinical Psychopharmacology Ian M. Anderson, Ian C. Reid, 2019-02-13 In the rapidly changing field of pharmacology it is essential that all those involved in the prescribing or administering of medication to people with mental disorders keep up to date with the latest developments This book is based on the highly successful course for trainee psychiatrists held twice yearly in Great Britain Leading psychiatrists

Principles and Practice of Clinical Research John I. Gallin, Frederick P Ognibene, Laura Lee Johnson, 2017-11-17 Principles and Practice of Clinical Research Fourth Edition has been thoroughly revised to provide a comprehensive look at both the fundamental principles and expanding practice of clinical research New to this edition of this highly regarded reference authors have focused on examples that broadly reflect clinical research on a global scale while including a discussion of international regulations studies and implications In addition to key topics such as bioethics clinical outcome data cultural diversity protocol guidelines and omic platforms this edition contains new chapters devoted to electronic health records and information resources for clinical researchers as well as the many opportunities associated with big data Covering a vast number of topics and practical advice for both novice and advanced clinical investigators this book is a highly relevant and essential resource for all those involved in conducting research Features input from experts in the field dedicated to translating scientific research from bench to bedside and back Provides expanded coverage of global clinical research Contains hands on practical suggestions illustrations and examples throughout Includes new chapters on the international regulation of drugs and biologics the emergence of the important role of comparative effectiveness research and how to identify clinical risks and manage patient safety in a clinical research setting

Publishing and Presenting Clinical Research Warren S. Browner, 2012-03-19 Publishing and Presenting Clinical Research Fourth Edition is an excellent primer for investigators who wish to learn how to organize present and publish results of their research Written by an experienced clinical researcher and editor it uses hundreds of examples tables and figures to show how to produce successful abstracts posters oral presentations and manuscripts for publication This book also serves as a companion to the popular text Designing Clinical Research This edition contains the latest Guidance on getting work accepted in medical journals and at scientific meetings Examples of the do s and don ts of data presentation Explanations of confusing statistical terminology Templates to get started and avoid writers block Tips for creating simple graphics and tables Help for those who are not fluent in English Suggestions about getting the most from a poster session Checklists for each section of a manuscript or presentation Advice about authorship and responding to reviewers comments Plus with this edition there is access to a companion website with fully searchable text so you can access the content anytime anywhere

Goodman's Basic Medical Endocrinology Elizabeth H. Holt, Beatrice Lupsa, Grace S. Lee, Hanan Bassyouni, Harry E. Peery, 2021-02-21 Goodman s Basic Medical Endocrinology Fifth Edition has been student tested and approved for decades This essential textbook provides up to date coverage of rapidly unfolding advances in the understanding of hormones involved in regulating most aspects of bodily functions It is richly illustrated in full color with both descriptive schematic diagrams and laboratory findings obtained in clinical studies This is a classic reference for moving forward into advanced study Clinical case studies in every chapter E book version available with every copy for obtaining images and tables for lectures or notes Clinicians added as co authors to enhance usefulness by physicians and medical students and residents Detailed molecular biology of hormones and hormone action for graduate and advanced undergraduate students Expanded and updated color images emphasizing hormone action at the molecular level In depth molecular biology and clinical sections boxed for ease of access

Fundamentals of Anaesthesia Colin Pinnock, Ted Lin, Robert Jones, Tim Smith, 2002-12 The second edition of Fundamentals of Anaesthesia builds upon the success of the first edition and encapsulates the modern practice of anaesthesia in a single volume Written and edited by a team of expert contributors it provides a comprehensive but easily readable account of all of the information required by the FRCA Primary examination candidate and has been expanded to include more detail on all topics and to include new topics now covered in the examination As with the previous edition presentation of information is clear and concise with the use of lists tables summary boxes and line illustrations where necessary to highlight important information and aid the understanding of complex topics Great care has been taken to ensure an unrivalled consistency of style and presentation throughout

Fundamentals of Aerospace Medicine Jeffrey Davis, Jan Stepanak, Jennifer Fogarty, Rebecca Blue, 2021-04-14 Encompassing all occupants of aircraft and spacecraft passengers and crew military and civilian Fundamentals of Aerospace Medicine 5th Edition addresses all medical and public health issues involved in this unique medical specialty Comprehensive coverage includes everything from human physiology under flight conditions to the impact of the aviation industry on public health from an increasingly mobile global populace to numerous clinical specialty considerations including a variety of common diseases and risks emanating from the aerospace environment This text is an invaluable reference for all students and practitioners who engage in aeromedical clinical practice engineering education research mission planning population health and operational support

Clinical Trial Design Guosheng Yin, 2013-06-07 A balanced treatment of the theories methodologies and design issues involved in clinical trials using statistical methods There has been enormous interest and development in Bayesian adaptive designs especially for early phases of clinical trials However for phase III trials frequentist methods still play a dominant role through controlling type I and type II errors in the hypothesis testing framework From practical perspectives Clinical Trial Design Bayesian and Frequentist Adaptive Methods provides comprehensive coverage of both Bayesian and frequentist approaches to all phases of clinical trial design Before underpinning various adaptive methods the book establishes an overview of the fundamentals of clinical trials as well as a comparison of Bayesian and frequentist statistics Recognizing that clinical trial design is one of the most important and useful skills in the pharmaceutical industry this book provides detailed discussions on a variety of statistical designs their properties and operating characteristics for phase I II and III clinical trials as well as an introduction to phase IV trials Many practical issues and challenges arising in clinical trials are addressed Additional topics of coverage include Risk and benefit analysis for toxicity and efficacy trade offs Bayesian predictive probability trial monitoring Bayesian adaptive randomization Late onset toxicity and response Dose finding in drug combination trials Targeted therapy designs The author utilizes cutting edge clinical trial designs and statistical methods that have been employed at the world s leading medical centers as well as in the pharmaceutical industry The software used throughout the book is freely available on the book s related website equipping readers with the necessary tools for designing clinical trials Clinical Trial Design is an excellent book for courses on the topic at the graduate level The book also serves as a valuable reference for statisticians and biostatisticians in the pharmaceutical industry as well as for researchers and practitioners who design conduct and monitor clinical trials in their everyday work

Fundamentals of Clinical Trials Lawrence M. Friedman, 1996

The Immunoassay Handbook David Wild,2013-01-21 The fourth edition of The Immunoassay Handbook provides an excellent thoroughly updated guide to the science technology and applications of ELISA and other immunoassays including a wealth of practical advice It encompasses a wide range of methods and gives an insight into the latest developments and applications in clinical and veterinary practice and in pharmaceutical and life science research Highly illustrated and clearly written this award winning reference work provides an excellent guide to this fast growing field Revised and extensively updated with over 30% new material and 77 chapters it reveals the underlying common principles and simplifies an abundance of innovation The Immunoassay Handbook reviews a wide range of topics now including lateral flow microsphere multiplex assays immunohistochemistry practical ELISA development assay interferences pharmaceutical applications qualitative immunoassays antibody detection and lab on a chip This handbook is a must read for all who use immunoassay as a tool including clinicians clinical and veterinary chemists biochemists food technologists environmental scientists and students and researchers in medicine immunology and proteomics It is an essential reference for the immunoassay industry Provides an excellent revised guide to this commercially highly successful technology in diagnostics and research from consumer home pregnancy kits to AIDS testing www.immunoassayhandbook.com is a great resource that we put a lot of effort into The content is designed to encourage purchases of single chapters or the entire book David Wild is a healthcare industry veteran with experience in biotechnology pharmaceuticals medical devices and immunodiagnostics which remains his passion He worked for Amersham Eastman Kodak Johnson Johnson and Bristol Myers Squibb and consulted for diagnostics and biotechnology companies He led research and development programs design and construction of chemical and biotechnology plants and integration of acquired companies Director level positions included Research and Development Design Engineering Operations and Strategy for billion dollar businesses He retired from full time work in 2012 to focus on his role as Editor of The Immunoassay Handbook and advises on product development manufacturing and marketing Provides a unique mix of theory practical advice and applications with numerous examples Offers explanations of technologies under development and practical insider tips that are sometimes omitted from scientific papers Includes a comprehensive troubleshooting guide useful for solving problems and improving assay performance Provides valuable chapter updates now available on www.immunoassayhandbook.com

The Comprehensive Guide To Clinical Research Chris Sauber,Dan Sfera,2019-04-21 Condensing the most important topics in all of clinical research in an easy to understand presentation The 20 percent of what you need to know in order to be 80 percent proficient The authors who have operated various levels of businesses in the clinical research industry since 2005 believe that more practical information pertaining to clinical research needs to be accessible to individuals who are new to the industry or are curious about entering the rewarding world of clinical trials This book reads in an easy to understand style and is based on proven methods the authors have developed to train their own employees and students of their various clinical research academies throughout the years Picking this up and absorbing the information will allow anyone to gain much better insight into the complicated dynamics of clinical research This practical roadmap is all you will need to get started on your clinical trial journey In this book you will learn about Regulations and the history as well as evolution of GCP Clinical Research Site Operations Monitoring Dynamics and Typical Monitoring Vists CRO Activities Sponsor Level Dynamics Industry Vendors Common Career Opportunities and Employment Roadmaps

Foundations of Clinical Research Leslie G Portney, 2020-01-16 Become a successful evidence based practitioner How do you evaluate the evidence Is the information accurate relevant and meaningful for clinical decision making Did the design fit the research questions and was the analysis and interpretation of data appropriate Here are all the materials you need to take your first steps as evidence based practitioners how to use the design data and analysis of research as the foundation for effective clinical decision making You ll find support every step of the way as you progress from the foundations of clinical research and concepts of measurement through the processes of designing studies and analyzing data to writing their own research proposal

Foundations of Clinical Research Leslie Gross Portney, Mary P. Watkins, 2000 This book serves as a comprehensive reference for a variety of research situations This edition reflects the popular approaches to analysis and design and addresses the focus of health care related research through the 1990s and into the 21st century Expanded or added topics include outcomes research and the disablement model validity and diagnostic screening meta analysis scales used in survey and outcomes research logistic regression measures of reliability and data management to prepare for computer analysis For those in the health professions including physical therapy occupational therapy speech therapy nursing and exercise physiology

Clinical Research Coordinator Handbook Deborrah Norris, 2004 In this revised third edition of the essential reference for clinical research coordinators CRCs Deborrah Norris provides expanded coverage of CRC duties and regulatory requirements including new sections on investigator responsibilities data clarification and adverse event reporting The book s five appendices include a directory of CRC resources updated forms and checklists state regulatory requirements and contact information conversion charts and tables a glossary and more

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