FOURTH EDITION

Biopharmaceutical Statistics

VOLUME 1-4







EDITED BY

Shein-Chung Chow



Encyclopedia Of Biopharmaceutical Statistics

Robert R. Redfield

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development 4 A table of contents organized by stages of biopharmaceutical development provides easy access to relevant topics About the Editor Shein Chung Chow Ph D is currently an Associate Director Office of Biostatistics U S Food and Drug Administration FDA Dr Chow is an Adjunct Professor at Duke University School of Medicine as well as Adjunct Professor at Duke NUS Singapore and North Carolina State University Dr Chow is the Editor in Chief of the Journal of Biopharmaceutical Statistics and the Chapman Hall CRC Biostatistics Book Series and the author of 28 books and over 300 methodology papers He was elected Fellow of the American Statistical Association in 1995 Encyclopedia Of Biopharma- Ceutical Statistics Shein-Chung Chow, 2000 This reference covers all key topics for evaluation of data at critical stages in the pharmaceutical research and development process highlighting the vital areas of statistical design and regulatory requirements Each entry of the Encyclopedia includes self contained self explanatory and accessible data to nonbiostatisticians real world examples of statistical design and practice in the pharmaceutical industry thoroughly up to date standards on good laboratory practice GLP good clinical practice GCP current good manufacturing practice cGMP and good statistics practice GSP Written by over 75 acclaimed international experts the Encyclopedia of Biopharmaceutical Statistics explores interrelations among physiochemical properties of drugs in dosage form and their pharmacological toxicological and clinical effects elucidates new applications of computer telephony technology surveys the crucial relationship of the Food and Drug Administration FDA to pharmaceutical development clinical trials and testing and marketing showcases monoclonal antibodies cytokines hematopoietic growth factors tumor vaccines xenotherapies and cell selection devices describes one sided equivalence and noninferiority trials investigates genetic toxicology tests and other animal studies illustrates assay technologies measuring gravimetric mass potency and physical or biological properties of analytes discusses proposals for internationally standardized systems of data collection and analysis and supplies vital economic data on factors such as reference based pricing burden of illness studies cost utility analysis and cost benefit analysis Containing over 2200 references equations tables and drawings the Encyclopedia of Biopharmaceutical Statistics serves as a reference for biostatisticians chemists pharmaceutical scientists clinical researchers and development pharmacists in the pharmaceutical industry and regulatory agencies as well as upper level undergraduate and graduate students in these disciplines BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved Statistics In the Pharmaceutical Industry C. Ralph Buncher, Jia-Yeong Tsay, 2019-03-07 The growth of the pharmaceutical industry over the past decade is astounding but the impact of this growth on statistics is somewhat confusing While software has made analysis easier and more efficient regulatory bodies now demand deeper and more complex analyses and pharmacogenetic genomic studies serve up an entirely new set of challenges For more than two decades Statistics in the Pharmaceutical Industry has been the definitive guide to sorting through the challenges in the industry and this Third Edition continues that tradition Updated and expanded to reflect the most recent trends and developments in the field Statistics in the Pharmaceutical Industry Third Edition

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Controversial Statistical Issues in Clinical Trials Shein-Chung Chow, 2016-04-19 In clinical trial practice controversial statistical issues inevitably occur regardless of the compliance with good statistical practice and good clinical practice But by identifying the causes of the issues and correcting them the study objectives of clinical trials can be better achieved Controversial Statistical Issues in Clinical Trials cov 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 specialities 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 Crossover Designs Kung-Jong Lui, 2016-08-08 A comprehensive and practical resource for analyses of crossover designs For ethical reasons it is vital to keep the number of patients in a clinical trial as low as possible As evidenced by extensive research publications crossover design can be a useful and powerful tool to reduce the number of patients needed for a parallel group design in studying treatments for non curable chronic diseases This book introduces commonly used and well established statistical tests and estimators in epidemiology that can easily be applied to hypothesis testing and estimation of the relative treatment effect for various types of data scale in crossover designs Models with distribution free random effects are assumed and hence most approaches considered here are semi parametric The book provides clinicians and biostatisticians with the exact test procedures and exact interval estimators which are applicable even when the number of patients in a crossover trial is small Systematic discussion on sample size determination is also included which will be a valuable resource for researchers involved in crossover trial design Key features Provides exact test procedures and interval estimators which are especially of use in small sample cases Presents most test procedures and interval estimators in closed forms enabling readers to calculate them by use of a pocket calculator or commonly used statistical packages Each chapter is self contained allowing the book to be used a reference resource Uses real life examples to illustrate the practical use of test procedures and estimators Provides extensive exercises to help readers appreciate the underlying theory learn other relevant test procedures and understand how to calculate the required sample size Crossover Designs Testing Estimation and Sample Size will be a useful resource for researchers from biostatistics as well as pharmaceutical and clinical sciences It can also be used as a textbook or reference for graduate students studying clinical Cancer Clinical Trials Stephen L. George, Xiaofei Wang, Herbert Pang, 2016-08-19 Cancer Clinical Trials experiments Current and Controversial Issues in Design and Analysis provides statisticians with an understanding of the critical challenges currently encountered in oncology trials Well known statisticians from academic institutions regulatory and government agencies such as the U S FDA and National Cancer Institute and the pharmaceutical industry share their

extensive experiences in cancer clinical trials and present examples taken from actual trials The book covers topics that are often perplexing and sometimes controversial in cancer clinical trials Most of the issues addressed are also important for clinical trials in other settings After discussing general topics the book focuses on aspects of early and late phase clinical trials It also explores personalized medicine including biomarker based clinical trials adaptive clinical trial designs and dynamic treatment regimes Innovative Methods for Rare Disease Drug Development Shein-Chung Chow, 2020-11-11 In the United States a rare disease is defined by the Orphan Drug Act as a disorder or condition that affects fewer than 200 000 persons For the approval of orphan drug products for rare diseases the traditional approach of power analysis for sample size calculation is not feasible because there are only limited number of subjects available for clinical trials In this case innovative approaches are needed for providing substantial evidence meeting the same standards for statistical assurance as drugs used to treat common conditions Innovative Methods for Rare Disease Drug Development focuses on biostatistical applications in terms of design and analysis in pharmaceutical research and development from both regulatory and scientific statistical perspectives Key Features Reviews critical issues e g endpoint margin selection sample size requirements and complex innovative design Provides better understanding of statistical concepts and methods which may be used in regulatory review and approval Clarifies controversial statistical issues in regulatory review and approval accurately and reliably Makes recommendations to evaluate rare diseases regulatory submissions Proposes innovative study designs and statistical methods for rare diseases drug development including n of 1 trial design adaptive trial design and master protocols like platform trials Provides insight regarding current regulatory guidance on rare diseases drug development like gene therapy in Drug Research Shein-Chung Chow, Jun Shao, 2002-02-20 Emphasizing the role of good statistical practices GSP in drug research and formulation this book outlines important statistics applications for each stage of pharmaceutical development to ensure the valid design analysis and assessment of drug products under investigation and establish the safety and efficacy of pharmaceutical compounds Coverage include statistical techniques for assay validation and evaluation of drug performance characteristics testing population individual bioequivalence and in vitro bioequivalence according to the most recent FDA quidelines basic considerations for the design and analysis of therapeutic equivalence and noninferiority trials Multiple Comparisons and Multiple Tests Using SAS, Second Edition Peter H. Westfall, Randall D. Tobias, Russell D. Wolfinger, 2011 New and extensively updated for SAS 9 and later this work provides cutting edge methods specialized macros and proven best bet procedures The book also discusses the pitfalls and advantages of various methods thereby helping readers to decide which is the most appropriate for their purposes 644 pp Pub 7 11 **Quantitative Methods for Traditional Chinese Medicine Development** Shein-Chung Chow, 2015-10-15 In recent years many pharmaceutical companies and clinical research organizations have been focusing on the development of traditional Chinese herbal medicines TCMs as alternatives to treating critical or life threatening diseases and as pathways to personalized medicine

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