



THIRD EDITION

Statistical Issues in Drug Development

STEPHEN SENN

STATISTICS IN PRACTICE

WILEY Blackwell

Statistical Issues In Drug Development

**Demissie Alemayehu, Birol
Emir, Michael Gaffney**



Statistical Issues In Drug Development:

Statistical Issues in Drug Development Stephen S. Senn, 2008-02-28 Drug development is the process of finding and producing therapeutically useful pharmaceuticals turning them into safe and effective medicine and producing reliable information regarding the appropriate dosage and dosing intervals With regulatory authorities demanding increasingly higher standards in such developments statistics has become an intrinsic and critical element in the design and conduct of drug development programmes *Statistical Issues in Drug Development* presents an essential and thought provoking guide to the statistical issues and controversies involved in drug development This highly readable second edition has been updated to include Comprehensive coverage of the design and interpretation of clinical trials Expanded sections on missing data equivalence meta analysis and dose finding An examination of both Bayesian and frequentist methods A new chapter on pharmacogenomics and expanded coverage of pharmaco epidemiology and pharmaco economics Coverage of the ICH guidelines in particular ICH E9 Statistical Principles for Clinical Trials It is hoped that the book will stimulate dialogue between statisticians and life scientists working within the pharmaceutical industry The accessible and wide ranging coverage make it essential reading for both statisticians and non statisticians working in the pharmaceutical industry regulatory bodies and medical research institutes There is also much to benefit undergraduate and postgraduate students whose courses include a medical statistics component

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Bayesian and frequentist methods A new chapter on pharmacogenomics and expanded coverage of pharmaco epidemiology and pharmaco economics Coverage of the ICH guidelines in particular ICH E9 Statistical Principles for Clinical Trials It is hoped that the book will stimulate dialogue between statisticians and life scientists working within the pharmaceutical industry The accessible and wide ranging coverage make it essential reading for both statisticians and non statisticians working in the pharmaceutical industry regulatory bodies and medical research institutes There is also much to benefit undergraduate and postgraduate students whose courses include a medical statistics component **BOOK JACKET** Interface between Regulation and Statistics in Drug Development Demissie Alemayehu, Birol Emir, Michael Gaffney, 2020-11-11 With the critical role of statistics in the design conduct analysis and reporting of clinical trials or observational studies intended for regulatory purposes numerous guidelines have been issued by regulatory authorities around the world focusing on statistical issues related to drug development However the available literature on this important topic is sporadic and often not readily accessible to drug developers or regulatory personnel This book provides a systematic exposition of the interplay between the two disciplines including emerging themes pertaining to the acceleration of the development of pharmaceutical medicines to serve patients with unmet needs Features Regulatory and statistical interactions throughout the drug development continuum The critical role of the statistician in relation to the changing regulatory and healthcare landscapes Statistical issues that commonly arise in the course of drug development and regulatory interactions Trending topics in drug development with emphasis on current regulatory thinking and the associated challenges and opportunities The book is designed to be accessible to readers with an intermediate knowledge of statistics and can be a useful resource to statisticians medical researchers and regulatory personnel in drug development as well as graduate students in the health sciences The authors decades of experience in the pharmaceutical industry and academia and extensive regulatory experience comes through in the many examples throughout the book **Statistical issues in pharmaceutical industry** Gary G. Koch, 1990 Statistical Issues in Oncologic Clinical Drug Development Kevin Carroll, 2013 *Statistical Issues in Pharmaceutical Development* Gary G. Koch, 1993 **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 **Statistical Issues in Detection of Biological Signals in the Analysis of Microarray Gene Expression Data** Ruixiao Lu, 2008 **Pharmaceutical Statistics** Sanford Bolton, 1990 Design and Analysis of Clinical Trials Shein-Chung Chow, Jen-Pei Liu, 2004 Presentation of principles and methodologies for various clinical trials and a well balanced summary of current regulatory requirements Emphasizes real life examples and illustrations from clinical case studies as well as numerous references **Nonparametric Statistical Inference** Jean Dickinson Gibbons, Subhabrata Chakraborti, 1992

Proceedings of the Section on Statistical Education American Statistical Association. Section on Statistical Education,1998 *Health Research Methodology* ,1992 **Journal of Statistical Planning and Inference** ,1994

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