

KUNG-JONG LUI

BINARY DATA ANALYSIS OF  
**Randomized  
Clinical Trials**  
WITH NONCOMPLIANCE



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STATISTICS IN PRACTICE

# Binary Data Analysis Of Randomized Clinical Trials With Noncompliance

**Lynda H. Powell, Kenneth E.  
Freedland, Peter G. Kaufmann**



## **Binary Data Analysis Of Randomized Clinical Trials With Noncompliance:**

Binary Data Analysis of Randomized Clinical Trials with Noncompliance Kung-Jong Lui, 2011-03-31 It is quite common in a randomized clinical trial RCT to encounter patients who do not comply with their assigned treatment Since noncompliance often occurs non randomly the commonly used approaches including both the as treated AT and as protocol AP analysis and the intent to treat ITT or as randomized analysis are all well known to possibly produce a biased inference of the treatment efficacy This book provides a systematic and organized approach to analyzing data for RCTs with noncompliance under the most frequently encountered situations These include parallel sampling stratified sampling cluster sampling parallel sampling with subsequent missing outcomes and a series of dependent Bernoulli sampling for repeated measurements The author provides a comprehensive approach by using contingency tables to illustrate the latent probability structure of observed data Using real life examples computer simulated data and exercises in each chapter the book illustrates the underlying theory in an accessible and easy to understand way Key features Consort flow diagrams and numerical examples are used to illustrate the bias of commonly used approaches such as AT analysis AP analysis and ITT analysis for a RCT with noncompliance Real life examples are used throughout the book to explain the practical usefulness of test procedures and estimators Each chapter is self contained allowing the book to be used as a reference source Includes SAS programs which can be easily modified in calculating the required sample size Biostatisticians clinicians researchers and data analysts working in pharmaceutical industries will benefit from this book This text can also be used as supplemental material for a course focusing on clinical statistics or experimental trials in epidemiology psychology and sociology

Handbook of Field Experiments Esther Duflo, Abhijit Banerjee, 2017-03-21 Handbook of Field Experiments provides tactics on how to conduct experimental research also presenting a comprehensive catalog on new results from research and areas that remain to be explored This updated addition to the series includes an entire chapters on field experiments the politics and practice of social experiments the methodology and practice of RCTs and the econometrics of randomized experiments These topics apply to a wide variety of fields from politics to education and firm productivity providing readers with a resource that sheds light on timely issues such as robustness and external validity Separating itself from circumscribed debates of specialists this volume surpasses in usefulness the many journal articles and narrowly defined books written by practitioners Balances methodological insights with analyses of principal findings and suggestions for further research Appeals broadly to social scientists seeking to develop an expertise in field experiments Strives to be analytically rigorous Written in language that is accessible to graduate students and non specialist economists

*Weight-of-Evidence for Forensic DNA Profiles* David J. Balding, Christopher D. Steele, 2015-07-20 DNA evidence is widely used in the modern justice system Statistical methodology plays a key role in ensuring that this evidence is collected interpreted analysed and presented correctly This book is a guide to assessing DNA evidence and presenting that evidence in a courtroom setting It offers practical guidance to forensic

scientists with little dependence on mathematical ability and provides the scientist with the understanding they require to apply the methods in their work Since the publication of the first edition of this book in 2005 there have been many incremental changes and one dramatic change which is the emergence of low template DNA LTDNA profiles This second edition is edited and expanded to cover the basics of LTDNA technology The author s own open source R code likeLTD is described and used for worked examples in the book Commercial and free software are also covered *Causal Inference in Statistics, Social, and Biomedical Sciences* Guido W. Imbens,Donald B. Rubin,2015-04-06 This text presents statistical methods for studying causal effects and discusses how readers can assess such effects in simple randomized experiments

*Applied Mixed Models in Medicine* Helen Brown,Robin Prescott,2014-12-12 A fully updated edition of this key text on mixed models focusing on applications in medical research The application of mixed models is an increasingly popular way of analysing medical data particularly in the pharmaceutical industry A mixed model allows the incorporation of both fixed and random variables within a statistical analysis enabling efficient inferences and more information to be gained from the data There have been many recent advances in mixed modelling particularly regarding the software and applications This third edition of Brown and Prescott s groundbreaking text provides an update on the latest developments and includes guidance on the use of current SAS techniques across a wide range of applications Presents an overview of the theory and applications of mixed models in medical research including the latest developments and new sections on incomplete block designs and the analysis of bilateral data Easily accessible to practitioners in any area where mixed models are used including medical statisticians and economists Includes numerous examples using real data from medical and health research and epidemiology illustrated with SAS code and output Features the new version of SAS including new graphics for model diagnostics and the procedure PROC MCMC Supported by a website featuring computer code data sets and further material This third edition will appeal to applied statisticians working in medical research and the pharmaceutical industry as well as teachers and students of statistics courses in mixed models The book will also be of great value to a broad range of scientists particularly those working in the medical and pharmaceutical areas *Statistical Methods for Evaluating Safety in Medical Product Development* A. Lawrence Gould,2014-12-08 This book gives professionals in clinical research valuable information on the challenging issues of the design execution and management of clinical trials and how to resolve these issues effectively It also provides understanding and practical guidance on the application of contemporary statistical methods to contemporary issues in safety evaluation during medical product development Each chapter provides sufficient detail to the reader to undertake the design and analysis of experiments at various stages of product development including comprehensive references to the relevant literature Provides a guide to statistical methods and application in medical product development Assists readers in undertaking design and analysis of experiments at various stages of product development Features case studies throughout the book as well as SAS and R code **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 experiments

**Applied Missing Data Analysis in the Health Sciences** Xiao-Hua Zhou, Chuan Zhou, Danping Lui, Xiaobo Ding, 2014-05-19 Applied Missing Data Analysis in the Health Sciences A modern and practical guide to the essential concepts and ideas for analyzing data with missing observations in the field of biostatistics With an emphasis on hands on applications Applied Missing Data Analysis in the Health Sciences outlines the various statistical methods for the analysis of missing data The authors acknowledge the limitations of established techniques and provide newly developed methods with concrete applications in areas such as causal inference Organized by types of data chapter coverage begins with an overall introduction to the existence and limitations of missing data and continues into techniques for missing data inference including likelihood based weighted GEE multiple imputation and Bayesian methods The book subsequently covers cross sectional longitudinal hierarchical survival data In addition Applied Missing Data Analysis in the Health Sciences features Multiple data sets that can be replicated using SAS Stata R and WinBUGS software packages Numerous examples of case studies to illustrate real world scenarios and demonstrate applications of discussed methodologies Detailed appendices to guide readers through the use of the presented data in various software environments Applied Missing Data Analysis in the Health Sciences is an excellent textbook for upper undergraduate and graduate level biostatistics courses as well as an ideal resource for health science researchers and applied statisticians

**Behavioral**

**Clinical Trials for Chronic Diseases** Lynda H. Powell, Kenneth E. Freedland, Peter G. Kaufmann, 2021-10-13 This is the first comprehensive guide to the design of behavioral randomized clinical trials RCT for chronic diseases It includes the scientific foundations for behavioral trial methods problems that have been encountered in past behavioral trials advances in design that have evolved and promising trends and opportunities for the future The value of this book lies in its potential to foster an ability to speak the language of medicine through the conduct of high quality behavioral clinical trials that match the rigor commonly seen in double blind drug trials It is relevant for testing any treatment aimed at improving a behavioral social psychosocial environmental or policy level risk factor for a chronic disease including for example obesity sedentary behavior adherence to treatment psychosocial stress food deserts and fragmented care Outcomes of interest are those that are of clinical significance in the treatment of chronic diseases including standard risk factors such as cholesterol blood pressure and glucose and clinical outcomes such as hospitalizations functional limitations excess morbidity quality of life and mortality This link between behavior and chronic disease requires innovative clinical trial methods not only from the behavioral sciences but also from medicine epidemiology and biostatistics This integration does not exist in any current book or in any training program in either the behavioral sciences or medicine

**Bayesian Networks for Probabilistic Inference and**

**Decision Analysis in Forensic Science** Franco Taroni, Alex Biedermann, Silvia Bozza, Paolo Garbolino, Colin Aitken, 2014-07-21 Bayesian Networks This book should have a place on the bookshelf of every forensic scientist who cares about the science of evidence interpretation Dr Ian Evett Principal Forensic Services Ltd London UK Bayesian Networks for Probabilistic Inference and Decision Analysis in Forensic Science Second Edition Continuing developments in science and technology mean that the amounts of information forensic scientists are able to provide for criminal investigations is ever increasing The commensurate increase in complexity creates difficulties for scientists and lawyers with regard to evaluation and interpretation notably with respect to issues of inference and decision Probability theory implemented through graphical methods and specifically Bayesian networks provides powerful methods to deal with this complexity Extensions of these methods to elements of decision theory provide further support and assistance to the judicial system Bayesian Networks for Probabilistic Inference and Decision Analysis in Forensic Science provides a unique and comprehensive introduction to the use of Bayesian decision networks for the evaluation and interpretation of scientific findings in forensic science and for the support of decision makers in their scientific and legal tasks Includes self contained introductions to probability and decision theory Develops the characteristics of Bayesian networks object oriented Bayesian networks and their extension to decision models Features implementation of the methodology with reference to commercial and academically available software Presents standard networks and their extensions that can be easily implemented and that can assist in the reader's own analysis of real cases Provides a technique for structuring problems and organizing data based on methods and principles of scientific reasoning Contains a method for the construction of coherent and defensible arguments for the analysis and

evaluation of scientific findings and for decisions based on them Is written in a lucid style suitable for forensic scientists and lawyers with minimal mathematical background Includes a foreword by Ian Evett The clear and accessible style of this second edition makes this book ideal for all forensic scientists applied statisticians and graduate students wishing to evaluate forensic findings from the perspective of probability and decision analysis It will also appeal to lawyers and other scientists and professionals interested in the evaluation and interpretation of forensic findings including decision making based on scientific information

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