

Richard J. Cook · Gerald R. Lawless

# The Statistical Analysis of Recurrent Events

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# The Statistical Analysis Of Recurrent Events

**Wayne B. Nelson**



## **The Statistical Analysis Of Recurrent Events:**

**The Statistical Analysis of Recurrent Events** Richard J. Cook, Jerald Lawless, 2007-07-16 This book presents models and statistical methods for the analysis of recurrent event data The authors provide broad detailed coverage of the major approaches to analysis while emphasizing the modeling assumptions that they are based on More general intensity based models are also considered as well as simpler models that focus on rate or mean functions Parametric nonparametric and semiparametric methodologies are all covered with procedures for estimation testing and model checking

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**Statistical Analysis of Panel Count Data** Jianguo Sun, Xingqiu Zhao, 2013-10-09 Panel count data occur in studies that concern recurrent events or event history studies when study subjects are observed only at discrete time points By recurrent events we mean the event that can occur or happen multiple times or repeatedly Examples of recurrent events include disease infections hospitalizations in medical studies warranty claims of automobiles or system break downs in reliability studies In fact many other fields yield event history data too such as demographic studies economic studies and social sciences For the cases where the study subjects are observed continuously the resulting data are usually referred to as recurrent event data This book collects and unifies statistical models and methods that have been developed for analyzing panel count data It provides the first comprehensive coverage of the topic The main focus is on methodology but for the benefit of the reader the applications of the methods to real data are also discussed along with numerical calculations There exists a great deal of literature on the analysis of recurrent event data This book fills the void in the literature on the analysis of panel count data This book provides an up to date reference for scientists who are conducting research on the analysis of panel count data It will also be instructional for those who need to analyze panel count data to answer substantive research questions In addition it can be used as a text for a graduate course in statistics or biostatistics that assumes a basic knowledge of probability and statistics

**Statistical Analysis of Recurrent Events by Point Process** Gyeongtae Hong, 2019 *The Statistical Analysis of Multivariate Failure Time Data* Ross L. Prentice, Shanshan Zhao, 2019-05-14 The Statistical Analysis of Multivariate Failure Time Data A Marginal Modeling Approach provides an innovative look at methods for the analysis of correlated failure times The focus is on the use of marginal single and marginal double failure hazard rate estimators for the extraction of regression information For example in a context of randomized trial or cohort studies the results go beyond that obtained by analyzing each failure time outcome in a univariate fashion The book is addressed to researchers practitioners and graduate students

and can be used as a reference or as a graduate course text Much of the literature on the analysis of censored correlated failure time data uses frailty or copula models to allow for residual dependencies among failure times given covariates In contrast this book provides a detailed account of recently developed methods for the simultaneous estimation of marginal single and dual outcome hazard rate regression parameters with emphasis on multiplicative Cox models Illustrations are provided of the utility of these methods using Women s Health Initiative randomized controlled trial data of menopausal hormones and of a low fat dietary pattern intervention As byproducts these methods provide flexible semiparametric estimators of pairwise bivariate survivor functions at specified covariate histories as well as semiparametric estimators of cross ratio and concordance functions given covariates The presentation also describes how these innovative methods may extend to handle issues of dependent censorship missing and mismeasured covariates and joint modeling of failure times and covariates setting the stage for additional theoretical and applied developments This book extends and continues the style of the classic Statistical Analysis of Failure Time Data by Kalbfleisch and Prentice Ross L Prentice is Professor of Biostatistics at the Fred Hutchinson Cancer Research Center and University of Washington in Seattle Washington He is the recipient of COPSS Presidents and Fisher awards the AACR Epidemiology Prevention and Team Science awards and is a member of the National Academy of Medicine Shanshan Zhao is a Principal Investigator at the National Institute of Environmental Health Sciences in Research Triangle Park North Carolina

*Interdisciplinary Bayesian Statistics* Adriano Polpo, Francisco Louzada, Laura L. R. Rifo, Julio M. Stern, Marcelo Lauretto, 2015-02-25 Through refereed papers this volume focuses on the foundations of the Bayesian paradigm their comparison to objectivistic or frequentist Statistics counterparts and the appropriate application of Bayesian foundations This research in Bayesian Statistics is applicable to data analysis in biostatistics clinical trials law engineering and the social sciences EBEB the Brazilian Meeting on Bayesian Statistics is held every two years by the ISBrA the International Society for Bayesian Analysis one of the most active chapters of the ISBA The 12th meeting took place March 10 14 2014 in Atibaia Interest in foundations of inductive Statistics has grown recently in accordance with the increasing availability of Bayesian methodological alternatives Scientists need to deal with the ever more difficult choice of the optimal method to apply to their problem This volume shows how Bayes can be the answer The examination and discussion on the foundations work towards the goal of proper application of Bayesian methods by the scientific community Individual papers range in focus from posterior distributions for non dominated models to combining optimization and randomization approaches for the design of clinical trials and classification of archaeological fragments with Bayesian networks

*Encyclopedia of Medical Decision Making* Michael W. Kattan, 2009-08-15 Decision making is a critical element in the field of medicine that can lead to life or death outcomes yet it is an element fraught with complex and conflicting variables diagnostic and therapeutic uncertainties patient preferences and values and costs Together decisions made by physicians patients insurers and policymakers determine the quality of health care quality that depends inherently

on counterbalancing risks and benefits and competing objectives such as maximizing life expectancy versus optimizing quality of life or quality of care versus economic realities Broadly speaking concepts in medical decision making MDM may be divided into two major categories prescriptive and descriptive Work in the area of prescriptive MDM investigates how medical decisions should be done using complicated analyses and algorithms to determine cost effectiveness measures prediction methods and so on In contrast descriptive MDM studies how decisions actually are made involving human judgment biases social influences patient factors and so on The Encyclopedia of Medical Decision Making gives a gentle introduction to both categories revealing how medical and healthcare decisions are actually made and constrained and how physician healthcare management and patient decision making can be improved to optimize health outcomes Key Features Discusses very general issues that span many aspects of MDM including bioethics health policy and economics disaster simulation modeling medical informatics the psychology of decision making shared and team medical decision making social moral and religious factors end of life decision making assessing patient preference and patient adherence and more Incorporates both quantity and quality of life in optimizing a medical decision Considers characteristics of the decisionmaker and how those characteristics influence their decisions Presents outcome measures to judge the quality or impact of a medical decision Examines some of the more commonly encountered biostatistical methods used in prescriptive decision making Provides utility assessment techniques that facilitate quantitative medical decision making Addresses the many different assumption perspectives the decision maker might choose from when trying to optimize a decision Offers mechanisms for defining MDM algorithms With comprehensive and authoritative coverage by experts in the fields of medicine decision science and cognitive psychology and healthcare management this two volume Encyclopedia is a must have resource for any academic library

**Estimands in Clinical Trials** Jiawei Wei, Leslie Meng, Frank Bretz, Feng Chen, Jun Wang, 2026-01-01 This book provides a comprehensive up to date and practical introduction to the estimand framework and its application in clinical trials Since its introduction by the International Council for Harmonisation ICH through the E9 R1 guideline in 2019 the estimand framework has led to a significant shift in the design conduct analysis and interpretation of clinical trials By explicitly aligning trial objectives with the clinical question of interest and by carefully accounting for intercurrent events the framework facilitates greater transparency and interpretability of trial results In recent years its adoption has supported improved scientific and regulatory dialogue more targeted trial designs and analysis methods and a better understanding of treatment effects across drug development programs This book reflects both the conceptual underpinnings of the estimand framework and the growing body of experience gained by the scientific and regulatory community since the release of the ICH E9 R1 guideline Emphasis is placed on practical implementation across a wide range of clinical and therapeutic settings Part I introduces the core concepts of the framework and offers detailed guidance on how to describe estimands in clinical trial protocols and related documents Part II presents a wide range of case

studies from various therapeutic areas to support practical implementation Part III summarizes estimand related content from regulatory guidelines across different indications Part IV describes statistical analysis methods and approaches for handling missing data across continuous binary recurrent and time to event endpoints Part V explores the use of the estimand framework in a variety of clinical trial settings Designed for a broad audience of professionals and students involved in clinical research this book will be particularly valuable for those engaged in the design conduct and analysis of clinical trials across the drug development lifecycle It serves both as a structured introduction for those new to the field and a detailed reference for experienced professionals Whether for academic study or practical implementation this book is an essential resource for advancing the estimand framework and promoting more robust informative clinical trials

*Recurrent Events Data Analysis for Product Repairs, Disease Recurrences, and Other Applications* Wayne B.

Nelson,2003-01-01 Survival data consist of a single event for each population unit namely end of life which is modeled with a life distribution However many applications involve repeated events data where a unit may accumulate numerous events over time This applied book provides practitioners with basic nonparametric methods for such data

*Information Technology Applications in Industry III* Su Fen Yang,2014-09-12 Selected peer reviewed papers from the 2014 3rd International Conference on Information Technology and Management Innovation ICITMI 2014 July 19 20 2014 Shenzhen China

*Information Technology for Manufacturing Systems III* Wei Deng,Qi Luo,2012-09-26 Selected peer reviewed papers from the 2012 3rd International Conference on Information Technology for Manufacturing Systems ITMS 2012 September 8 9

2012 Qingdao China **Journal of the American Statistical Association** American Statistical Association,1925 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

**Advances in Computer Science, Intelligent Systems and Environment** David Jin,Sally Lin,2011-09-15 CSISE2011 is an integrated conference concentrating its focus upon Computer Science Intelligent System and Environment In the proceeding you can learn much more knowledge about Computer Science Intelligent System and Environment of researchers all around the world The international conference will provide a forum for engineers scientist teachers and all researchers to discuss their latest research achievements and their future research plan The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned field In order to meet high standard of Springer s **Advances in Intelligent and Soft Computing** the organization committee has made their efforts to do the following things Firstly poor quality paper has been refused after reviewing course by anonymous referee experts Secondly periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions Finally the conference organization had several preliminary sessions before the conference Through efforts of different people and

departments the conference will be successful and fruitful We hope that you can get much more knowledges from our CSISE2011 and we also hope that you can give us good suggestions to improve our work in the future

Modeling Recurrent Events and Medical Cost Data in the Presence of a Correlated Terminating Event Lei Liu,2004

**Benefit-Risk Assessment Methods in Medical Product Development** Qi Jiang,Weili He,2017-12-19

Guides You on the Development and Implementation of B R Evaluations Benefit Risk Assessment Methods in Medical Product Development Bridging Qualitative and Quantitative Assessments provides general guidance and case studies to aid practitioners in selecting specific benefit risk B R frameworks and quantitative methods Leading experts from industry regulatory agencies and academia present practical examples lessons learned and best practices that illustrate how to conduct structured B R assessment in clinical development and regulatory submission The first section of the book discusses the role of B R assessments in medicine development and regulation the need for both a common B R framework and patient input into B R decisions and future directions The second section focuses on legislative and regulatory policy initiatives as well as decisions made at the U S FDA s Center for Devices and Radiological Health The third section examines key elements of B R evaluations in a product s life cycle such as uncertainty evaluation and quantification quantifying patient B R trade off preferences ways to identify subgroups with the best B R profiles and data sources used to assist B R assessment The fourth section equips practitioners with tools to conduct B R evaluations including assessment methodologies a quantitative joint modeling and joint evaluation framework and several visualization tools The final section presents a rich collection of case studies With top specialists sharing their in depth knowledge thought provoking considerations and practical advice this book offers comprehensive coverage of B R evaluation methods tools and case studies It gives practitioners a much needed toolkit to develop and conduct their own B R evaluations

Encyclopedia of Quantitative Risk Analysis and Assessment: R-Z Edward L. Melnick,Brian Everitt,2008

**Statistica Sinica** ,2002

**The Statistical Analysis of Series of Events** David Roxbee Cox,Peter A. W. Lewis,1966

**Statistical Methods for Recurrent Events and First Non-fatal Events in Clinical Trials** Jiren Sun,2025 This dissertation addresses four statistical questions related to the analysis of first non fatal events and recurrent events non fatal events that occur repeatedly within the same subject in clinical trials and develops four corresponding statistical methods In the first project we investigate the question How can we quantify the difference between the commonly reported cause specific hazard ratio CSHR and the direct effect of treatment on the underlying first non fatal event process in the presence of death To answer this we introduce the Proportional Principal Stratum Hazards PPSH model within the principal stratification framework The PPSH model estimates the principal stratum hazard ratio PSHR which reflects the direct effect on the underlying first non fatal event process assuming correct model specification By reporting the PSHR alongside the CSHR researchers can gain a more comprehensive understanding of the direct effect on the underlying first non fatal event process In the second project we address the question How can we improve the precision

of area under the curve estimation for the mean cumulative function while preserving its unconditional interpretability To this end we propose a nonparametric covariate adjustment approach that ensures efficiency gains over unadjusted analyses and applies universally to various randomization schemes including both simple and covariate adaptive designs In the third project we explore the question How can we estimate treatment effects under a hypothetical scenario where the intercurrent event post randomization events affecting outcome interpretation or existence does not occur We apply inverse probability weighting to the widely used Lin Wei Yang Ying and negative binomial models appropriately adjusting for baseline and internal time varying covariates to obtain unbiased estimates of hypothetical treatment effects Simulation studies demonstrate that our approach outperforms alternative analytical methods in terms of bias and power In the final project we examine the question How can we estimate treatment effects on recurrent events and recover the underlying trajectory of recurrent events in the presence of death We propose a parametric shared frailty model that enables formal testing of recurrent event trends and offers greater power than traditional time to first event analyses in heterogeneous clinical trial populations

Encyclopedia of Statistics in Quality and Reliability Fabrizio Ruggeri, Ron S. Kenett, Frederick W. Faltin, 2007

The Encyclopedia of Statistics in Quality and Reliability is intended to support the development and implementation of statistical tools essential to designing or improving the quality of products processes and measurement systems The Encyclopedia will address the theory and applications of quality and reliability statistical techniques including but not limited to the fundamentals of the subject design for reliability and safety reliability development testing inspection and testing experimental design data collection systems and industrial data mining information feedback and control process charts design for Six Sigma quality management and quality engineering

## Enjoying the Beat of Phrase: An Emotional Symphony within **The Statistical Analysis Of Recurrent Events**

In a world used by screens and the ceaseless chatter of immediate transmission, the melodic elegance and psychological symphony produced by the written term usually diminish into the backdrop, eclipsed by the constant sound and distractions that permeate our lives. However, located within the pages of **The Statistical Analysis Of Recurrent Events** a charming literary treasure full of fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this captivating masterpiece conducts visitors on a mental trip, skillfully unraveling the concealed songs and profound impact resonating within each carefully crafted phrase. Within the depths of the touching examination, we will discover the book is main harmonies, analyze their enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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