

Multivariate survival analysis for case–control family data

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SUMMARY

Multivariate survival data arise from case–control family studies in which the ages at disease onset for family members may be correlated. In this paper, we consider a multivariate survival model with the marginal hazard function following the proportional hazards model. We use a frailty-based approach in the spirit of Glidden and Self (1999) to account for the correlation of ages at onset among family members. Specifically, we first estimate the baseline hazard function nonparametrically by the innovation theorem, and then obtain maximum pseudolikelihood estimators for the regression and correlation parameters plugging in the baseline hazard function estimator. We establish a connection with a previously proposed generalized estimating equation-based approach. Simulation studies and an analysis of case–control family data of breast cancer illustrate the methodology’s practical utility.

Keywords: Case–control family study; Cox proportional hazards model; Familial aggregation; Frailty model; Innovation theorem.

1. INTRODUCTION

There is an increasing interest in the application of multivariate survival analysis techniques to population-based case–control studies for estimating the marginal hazard function and the dependencies of correlated ages at disease onset (Li *et al.*, 1998; Shih and Chatterjee, 2002; Hsu *et al.*, 2004). An interesting example is a breast cancer study conducted at the Fred Hutchinson Cancer Research Center (Malone *et al.*, 1996). In this study, the breast cancer incidence cases were ascertained from the Surveillance, Epidemiology, and End Results registry, which is a set of geographically defined, population-based cancer registries in the United States. The controls were obtained through random digit dialing and were matched

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Harry Yang, Steven Novick



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Analysis of Multivariate Survival Data Philip Hougaard, 2012-12-06 Survival data or more general time to event data occur in many areas including medicine biology engineering economics and demography but previously standard methods have requested that all time variables are univariate and independent This book extends the field by allowing for multivariate times Applications where such data appear are survival of twins survival of married couples and families time to failure of right and left kidney for diabetic patients life history data with time to outbreak of disease complications and death recurrent episodes of diseases and cross over studies with time responses As the field is rather new the concepts and the possible types of data are described in detail and basic aspects of how dependence can appear in such data is discussed Four different approaches to the analysis of such data are presented The multi state models where a life history is described as the subject moving from state to state is the most classical approach The Markov models make up an important special case but it is also described how easily more general models are set up and analyzed Frailty models which are random effects models for survival data made a second approach extending from the most simple shared frailty models which are considered in detail to models with more complicated dependence structures over individuals or over time Marginal modelling has become a popular approach to evaluate the effect of explanatory factors in the presence of dependence but without having specified a statistical model for the dependence Finally the completely non parametric approach to bivariate censored survival data is described This book is aimed at investigators who need to analyze multivariate survival data but due to its focus on the concepts and the modelling aspects it is also useful for persons interested in such data but *Bayesian Hierarchical Models* Peter D. Congdon, 2019-09-16 An intermediate level treatment of Bayesian hierarchical models and their applications this book demonstrates the advantages of a Bayesian approach to data sets involving inferences for collections of related units or variables and in methods where parameters can be treated as random collections Through illustrative data analysis and attention to statistical computing this book facilitates practical implementation of Bayesian hierarchical methods The new edition is a revision of the book *Applied Bayesian Hierarchical Methods* It maintains a focus on applied modelling and data analysis but now using entirely R based Bayesian computing options It has been updated with a new chapter on regression for causal effects and one on computing options and strategies This latter chapter is particularly important due to recent advances in Bayesian computing and estimation including the development of rjags and rstan It also features updates throughout with new examples The examples exploit and illustrate the broader advantages of the R computing environment while allowing readers to explore alternative likelihood assumptions regression structures and assumptions on prior densities Features Provides a comprehensive and accessible overview of applied Bayesian hierarchical modelling Includes many real data examples to illustrate different modelling topics R code based on rjags jagsUI R2OpenBUGS and rstan is integrated into the book emphasizing implementation Software options and coding principles are introduced in new chapter on computing

Programs and data sets available on the book's website **Bayesian Thinking, Modeling and Computation**, 2005-11-29

This volume describes how to develop Bayesian thinking modelling and computation both from philosophical methodological and application point of view It further describes parametric and nonparametric Bayesian methods for modelling and how to use modern computational methods to summarize inferences using simulation The book covers wide range of topics including objective and subjective Bayesian inferences with a variety of applications in modelling categorical survival spatial spatiotemporal Epidemiological software reliability small area and micro array data The book concludes with a chapter on how to teach Bayesian thoughts to nonstatisticians Critical thinking on causal effects Objective Bayesian philosophy Nonparametric Bayesian methodology Simulation based computing techniques Bioinformatics and Biostatistics Big Data and Information Theory Jiuping Xu, Syed Ejaz Ahmed, Zongmin Li, 2022-06-01 Big Data and Information Theory are a binding force between various areas of knowledge that allow for societal advancement Rapid development of data analytic and information theory allows companies to store vast amounts of information about production inventory service and consumer activities More powerful CPUs and cloud computing make it possible to do complex optimization instead of using heuristic algorithms as well as instant rather than offline decision making The era of big data challenges includes analysis capture curation search sharing storage transfer visualization and privacy violations Big data calls for better integration of optimization statistics and data mining In response to these challenges this book brings together leading researchers and engineers to exchange and share their experiences and research results about big data and information theory applications in various areas This book covers a broad range of topics including statistics data mining data warehouse implementation engineering management in large scale infrastructure systems data driven sustainable supply chain network information technology service offshoring project issues online rumors governance preliminary cost estimation and information system project selection The chapters in this book were originally published in the journal International Journal of Management Science and Engineering Management *Springer Handbook of Engineering Statistics* Hoang Pham, 2006 In today's global and highly competitive environment continuous improvement in the processes and products of any field of engineering is essential for survival This book gathers together the full range of statistical techniques required by engineers from all fields It will assist them to gain sensible statistical feedback on how their processes or products are functioning and to give them realistic predictions of how these could be improved The handbook will be essential reading for all engineers and engineering connected managers who are serious about keeping their methods and products at the cutting edge of quality and competitiveness Bayesian Analysis with R for Drug Development Harry Yang, Steven Novick, 2019-06-26 Drug development is an iterative process The recent publications of regulatory guidelines further entail a lifecycle approach Blending data from disparate sources the Bayesian approach provides a flexible framework for drug development Despite its advantages the uptake of Bayesian methodologies is lagging behind in the field of pharmaceutical development Written

specifically for pharmaceutical practitioners Bayesian Analysis with R for Drug Development Concepts Algorithms and Case Studies describes a wide range of Bayesian applications to problems throughout pre clinical clinical and Chemistry Manufacturing and Control CMC development Authored by two seasoned statisticians in the pharmaceutical industry the book provides detailed Bayesian solutions to a broad array of pharmaceutical problems Features Provides a single source of information on Bayesian statistics for drug development Covers a wide spectrum of pre clinical clinical and CMC topics Demonstrates proper Bayesian applications using real life examples Includes easy to follow R code with Bayesian Markov Chain Monte Carlo performed in both JAGS and Stan Bayesian software platforms Offers sufficient background for each problem and detailed description of solutions suitable for practitioners with limited Bayesian knowledge Harry Yang Ph D is Senior Director and Head of Statistical Sciences at AstraZeneca He has 24 years of experience across all aspects of drug research and development and extensive global regulatory experiences He has published 6 statistical books 15 book chapters and over 90 peer reviewed papers on diverse scientific and statistical subjects including 15 joint statistical works with Dr Novick He is a frequent invited speaker at national and international conferences He also developed statistical courses and conducted training at the FDA and USP as well as Peking University Steven Novick Ph D is Director of Statistical Sciences at AstraZeneca He has extensively contributed statistical methods to the biopharmaceutical literature Novick is a skilled Bayesian computer programmer and is frequently invited to speak at conferences having developed and taught courses in several areas including drug combination analysis and Bayesian methods in clinical areas Novick served on IPAC RS and has chaired several national statistical conferences

Methods and Biostatistics in Oncology Raphael. L.C Araújo,Rachel P. Riechelmann,2018-04-16 This book introduces and discusses the most important aspects of clinical research methods and biostatistics for oncologists pursuing a tailor made and practical approach Evidence based medicine EBM has been in vogue in the last few decades particularly in rapidly advancing fields such as oncology This approach has been used to support decision making processes worldwide sparking new clinical research and guidelines on clinical and surgical oncology Clinical oncology research has many peculiarities including specific study endpoints a special focus on survival analyses and a unique perspective on EBM However during medical studies and in general practice these topics are barely taught Moreover even when EBM and clinical cancer research are discussed they are presented in a theoretical fashion mostly focused on formulas and numbers rather than on clinical application for a proper literature appraisal Addressing that gap this book discusses more practical aspects of clinical research and biostatistics in oncology instead of relying only on mathematical formulas and theoretical considerations *Methods and Biostatistics in Oncology* will help readers develop the skills they need to understand the use of research on everyday oncology clinical practice for study design and interpretation as well to demystify the use of EBM in oncology

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Table of Contents S Analysis Of Multivariate Survival Data Pdf

1. Understanding the eBook S Analysis Of Multivariate Survival Data Pdf
 - The Rise of Digital Reading S Analysis Of Multivariate Survival Data Pdf
 - Advantages of eBooks Over Traditional Books
2. Identifying S Analysis Of Multivariate Survival Data Pdf
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an S Analysis Of Multivariate Survival Data Pdf
 - User-Friendly Interface
4. Exploring eBook Recommendations from S Analysis Of Multivariate Survival Data Pdf
 - Personalized Recommendations
 - S Analysis Of Multivariate Survival Data Pdf User Reviews and Ratings
 - S Analysis Of Multivariate Survival Data Pdf and Bestseller Lists
5. Accessing S Analysis Of Multivariate Survival Data Pdf Free and Paid eBooks
 - S Analysis Of Multivariate Survival Data Pdf Public Domain eBooks
 - S Analysis Of Multivariate Survival Data Pdf eBook Subscription Services
 - S Analysis Of Multivariate Survival Data Pdf Budget-Friendly Options

6. Navigating S Analysis Of Multivariate Survival Data Pdf eBook Formats
 - ePub, PDF, MOBI, and More
 - S Analysis Of Multivariate Survival Data Pdf Compatibility with Devices
 - S Analysis Of Multivariate Survival Data Pdf Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of S Analysis Of Multivariate Survival Data Pdf
 - Highlighting and Note-Taking S Analysis Of Multivariate Survival Data Pdf
 - Interactive Elements S Analysis Of Multivariate Survival Data Pdf
8. Staying Engaged with S Analysis Of Multivariate Survival Data Pdf
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers S Analysis Of Multivariate Survival Data Pdf
9. Balancing eBooks and Physical Books S Analysis Of Multivariate Survival Data Pdf
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection S Analysis Of Multivariate Survival Data Pdf
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine S Analysis Of Multivariate Survival Data Pdf
 - Setting Reading Goals S Analysis Of Multivariate Survival Data Pdf
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of S Analysis Of Multivariate Survival Data Pdf
 - Fact-Checking eBook Content of S Analysis Of Multivariate Survival Data Pdf
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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