

Advanced Statistical Methods in Epidemiology

Practical 3

Modelling with Covariates: Case Studies and Examples

Logistic Regression

The data to be analysed in this part of the practical was taken from a literature review by Colditz et al. published in JAMA (1974) on the efficacy of the BCG vaccine in prevention of tuberculosis (TB). Data from 13 independent studies is available in Stata datafile BCG_TB_meta.dta.

The variable **TB_case** has value 1 if an individual develops TB (is a case) and has value 0 if an individual does not develop TB.

The variable **Intervention** has value 1 if an individual was vaccinated against TB and is 0 otherwise.

The dataset also records **Year** of the studies and the **Latitude** at which each study was conducted. **Latitude** represents the variation in rainfall, humidity and environmental mycobacteria suspected of producing immunity against TB.

- 1) Analyze the data by study, taking **TB_case** as response and **Intervention** as exposure. Use Mantel-Haenszel within stratum weights.

To do this, use the following syntax:

- `cs TB_Case Intervention [fweight = frequency], by(study)`

OR follow the steps below:

- **Statistics → Epidemiology and related → Tables for epidemiologists → Cohort study risk ratio (etc)**
- Specify **TB_case** as case variable and **Intervention** as exposed variable.
- Specify the variable **frequency** as weights, and under options stratify on **study** and select "Use Mantel-Haenszel".
- **Click Submit.**

You should get the table shown in Lecture 9.

- 2) Analyze the data accounting for the effects of latitude and year of study by fitting a logistic model with **TB_case** as response and **Intervention** as exposure.

Epm304 Advanced Statistical Methods In Epidemiology

Suresh H. Moolgavkar, Ross L. Prentice



Epm304 Advanced Statistical Methods In Epidemiology:

Modern Methods for Epidemiology Yu-Kang Tu, Darren C. Greenwood, 2012-05-22 Routine applications of advanced statistical methods on real data have become possible in the last ten years because desktop computers have become much more powerful and cheaper. However, proper understanding of the challenging statistical theory behind those methods remains essential for correct application and interpretation and rarely seen in the medical literature. Modern Methods for Epidemiology provides a concise introduction to recent development in statistical methodologies for epidemiological and biomedical researchers. Many of these methods have become indispensable tools for researchers working in epidemiology and medicine but are rarely discussed in details by standard textbooks of biostatistics or epidemiology. Contributors of this book are experienced researchers and experts in their respective fields. This textbook provides a solid starting point for those who are new to epidemiology and for those looking for guidance in more modern statistical approaches to observational epidemiology. Epidemiological and biomedical researchers who wish to overcome the mathematical barrier of applying those methods to their research will find this book an accessible and helpful reference for self learning and research. This book is also a good source for teaching postgraduate students in medical statistics or epidemiology. Statistical Methods in Epidemiology Harold A. Kahn, Christopher T. Sempos, 1989 This book is an expanded version of the Kahn's widely used text An Introduction to Epidemiologic Methods Oxford 1983. It provides clear insight into the basic statistical tools used in epidemiology and is written so that those without advanced statistical training can comprehend the ideas underlying the analytical techniques. The authors emphasize the extent to which similar results are obtained from different methods, both simple and complex. To this edition they have added a new chapter on Comparison of Numerical Results for Various Methods of Adjustment and also one on The Primacy of Data Collection. New topics include the Kaplan Meier product limit method and the Cox proportional hazards model for analysis of time related outcomes. An appendix of data from the Framingham Heart Study is used to illustrate the application of various analytical methods to an identical set of real data and provides source material for student exercises. The text has been updated throughout. BOOK ALONE: STATISTICAL METHODS IN EPIDEMIOLOGY RESEARCH Ray M. Merrill, 2015-08-03 With the many advances in the control of infectious disease over the last 100 years, the role of epidemiology in public health has transformed significantly. Epidemiologic research now includes the study of acute and chronic diseases as well as the events, behaviors, and conditions associated with health. From seasoned author Ray Merrill, this text explores how epidemiologic methods are conducted and interpreted. In four sections, Statistical Methods in Epidemiologic Research covers basic concepts in epidemiology and statistics, study designs, statistical techniques and applications, as well as special topics. Key Features: Includes sections on how specific epidemiologic methods have resulted in findings that have influenced health policy and public health. Offers optional sections involving more advanced methods. At the end of each chapter, an applications section gives the student a clear picture of how epidemiologic methods

are applied in real world situations Special emphasis is given to interpreting results SAS code is presented in an appendix that corresponds to assessing selected methods Statistical Methods for Global Health and Epidemiology Xinguang Chen,(Din) Ding-Geng Chen,2020-04-13 This book examines statistical methods and models used in the fields of global health and epidemiology It includes methods such as innovative probability sampling data harmonization and encryption and advanced descriptive analytical and monitory methods Program codes using R are included as well as real data examples Contemporary global health and epidemiology involves a myriad of medical and health challenges including inequality of treatment the HIV AIDS epidemic and its subsequent control the flu cancer tobacco control drug use and environmental pollution In addition to its vast scales and telescopic perspective addressing global health concerns often involves examining resource limited populations with large geographic socioeconomic diversities Therefore advancing global health requires new epidemiological design new data and new methods for sampling data processing and statistical analysis This book provides global health researchers with methods that will enable access to and utilization of existing data Featuring contributions from both epidemiological and biostatistical scholars this book is a practical resource for researchers practitioners and students in solving global health problems in research education training and consultation Statistical Analysis of Epidemiologic Data S. Selvin,1991 This text combines applied and theoretical approaches to the analysis of epidemiologic issues It goes beyond elementary material to deal with real problems generated by disease data and delves into less usual areas such as the analysis of spatial distributions survival data proportional hazards regression and computer intensive approaches to statistical estimation Each method discussed in the text is illustrated with examples which include complete sets of data Using actual data demonstrates the strengths and weaknesses of different analytic approaches in describing a disease process The book s goal is to develop a clear understanding of analytic approaches to problems in epidemiological data analysis without relying on sophisticated mathematics and advanced statistical theory Individuals with some background in epidemiology and statistics will find this a useful volume in the study of epidemiological analysis

Statistical Analysis of Epidemiologic Data Steve Selvin,2004-05-13 Analytic procedures suitable for the study of human disease are scattered throughout the statistical and epidemiologic literature Explanations of their properties are frequently presented in mathematical and theoretical language This well established text gives readers a clear understanding of the statistical methods that are widely used in epidemiologic research without depending on advanced mathematical or statistical theory By applying these methods to actual data Selvin reveals the strengths and weaknesses of each analytic approach He combines techniques from the fields of statistics biostatistics demography and epidemiology to present a comprehensive overview that does not require computational details of the statistical techniques described For the Third Edition Selvin took out some old material e g the section on rarely used cross over designs and added new material e g sections on frequently used contingency table analysis Throughout the text he enriched existing discussions with new

elements including the analysis of multi level categorical data and simple intuitive arguments that exponential survival times cause the hazard function to be constant He added a dozen new applied examples to illustrate such topics as the pitfalls of proportional mortality data the analysis of matched pair categorical data and the age adjustment of mortality rates based on statistical models The most important new feature is a chapter on Poisson regression analysis This essential statistical tool permits the multivariable analysis of rates probabilities and counts

Quantitative Methods for Health Research Nigel Bruce, Daniel Pope, Debbi Stanistreet, 2018-02-05 A practical introduction to epidemiology biostatistics and research methodology for the whole health care community This comprehensive text which has been extensively revised with new material and additional topics utilizes a practical slant to introduce health professionals and students to epidemiology biostatistics and research methodology It draws examples from a wide range of topics covering all of the main contemporary health research methods including survival analysis Cox regression and systematic reviews and meta analysis the explanation of which go beyond introductory concepts This second edition of Quantitative Methods for Health Research A Practical Interactive Guide to Epidemiology and Statistics also helps develop critical skills that will prepare students to move on to more advanced and specialized methods A clear distinction is made between knowledge and concepts that all students should ensure they understand and those that can be pursued further by those who wish to do so Self assessment exercises throughout the text help students explore and reflect on their understanding A program of practical exercises in SPSS using a prepared data set helps to consolidate the theory and develop skills and confidence in data handling analysis and interpretation Highlights of the book include Combining epidemiology and bio statistics to demonstrate the relevance and strength of statistical methods Emphasis on the interpretation of statistics using examples from a variety of public health and health care situations to stress relevance and application Use of concepts related to examples of published research to show the application of methods and balance between ideals and the realities of research in practice Integration of practical data analysis exercises to develop skills and confidence Supplementation by a student companion website which provides guidance on data handling in SPSS and study data sets as referred to in the text Quantitative Methods for Health Research Second Edition is a practical learning resource for students practitioners and researchers in public health health care and related disciplines providing both a course book and a useful introductory reference

Statistical Thinking in Epidemiology Yu-Kang Tu, Mark Gilthorpe, 2016-04-19 While biomedical researchers may be able to follow instructions in the manuals accompanying the statistical software packages they do not always have sufficient knowledge to choose the appropriate statistical methods and correctly interpret their results Statistical Thinking in Epidemiology examines common methodological and statistical problems

Handbook of Statistical Methods for Case-Control Studies Ørnulf Borgan, Norman Breslow, Nilanjan Chatterjee, Mitchell H. Gail, Alastair Scott, Chris J. Wild, 2018-06-27 Handbook of Statistical Methods for Case Control Studies is written by leading researchers in the field It provides an in depth treatment of up to date

and currently developing statistical methods for the design and analysis of case control studies as well as a review of classical principles and methods The handbook is designed to serve as a reference text for biostatisticians and quantitatively oriented epidemiologists who are working on the design and analysis of case control studies or on related statistical methods research Though not specifically intended as a textbook it may also be used as a backup reference text for graduate level courses

Book Sections Classical designs and causal inference measurement error power and small sample inference Designs that use full cohort information Time to event data Genetic epidemiology About the Editors

rnulf Borgan is Professor of Statistics University of Oslo His book with Andersen Gill and Keiding on counting processes in survival analysis is a world classic Norman E Breslow was at the time of his death Professor Emeritus in Biostatistics University of Washington For decades his book with Nick Day has been the authoritative text on case control methodology Nilanjan Chatterjee is Bloomberg Distinguished Professor Johns Hopkins University He leads a broad research program in statistical methods for modern large scale biomedical studies Mitchell H Gail is a Senior Investigator at the National Cancer Institute His research includes modeling absolute risk of disease intervention trials and statistical methods for epidemiology Alastair Scott was at the time of his death Professor Emeritus of Statistics University of Auckland He was a major contributor to using survey sampling methods for analyzing case control data Chris J Wild is Professor of Statistics University of Auckland His research includes nonlinear regression and methods for fitting models to response selective data

Statistical Models in Epidemiology David Clayton, Michael Hills, 2013-01-17 This self contained account of the statistical basis of epidemiology has been written for those with a basic training in biology It is specifically intended for students enrolled for a masters degree in epidemiology clinical epidemiology or biostatistics

Modern Statistical Methods in Chronic Disease Epidemiology Suresh H. Moolgavkar, Ross L. Prentice, 1986

Statistical Methods for Global Health and Epidemiology, 2020 This book examines statistical methods and models used in the fields of global health and epidemiology It includes methods such as innovative probability sampling data harmonization and encryption and advanced descriptive analytical and monitory methods Program codes using R are included as well as real data examples Contemporary global health involves a myriad of medical and health challenges including inequality of treatment the HIV AIDS epidemic and its subsequent control the flu tobacco control drug use and environmental pollution In addition to its vast scales and telescopic perspective addressing global health concerns often involves examining resource limited populations with large geographic socioeconomic diversities Therefore advancing global health requires new epidemiological design new data and new methods for sampling data processing and statistical analysis This book provides global health researchers with methods that will enable access to and utilization of existing data Featuring contributions from both epidemiological and biostatistical scholars this book is a practical resource for researchers practitioners and students in solving global health problems in research education training and consultation

Basic Statistics and Epidemiology Antony Stewart, 2022-02-03 This straightforward primer in basic

statistics and epidemiology emphasises their practical use in healthcare and public health providing understanding of essential topics such as study design data analysis and statistical methods used in the execution of medical research Assuming no prior knowledge the clarity of the text and care of presentation ensure those new to or challenged by these topics are given a thorough introduction without being overwhelmed by unnecessary detail Key features Provides an excellent grounding in the basics of both statistics and epidemiology Full step by step guidance on performing statistical calculations Numerous examples and exercises with detailed answers to help readers navigate these complex subjects with ease and confidence Enables students and practitioners to make sense of the many research studies that underpin evidence based practice Fully revised and updated for this fifth edition now with additional exercises and question and answers online for self testing An understanding and appreciation of statistics is central to ensuring that professional practice is based on the best available evidence in order to best treat and help the wider community Reading this book will help students researchers doctors nurses and health managers to understand and apply the tools of statistics and epidemiology to their own practice

Handbook of Epidemiology Wolfgang Ahrens, Iris Pigeot, 2025-04-15 Building on the success of the first and second editions the updated third edition of the Handbook of Epidemiology serves as a major reference for all researchers who want to conduct epidemiological studies or who want to deepen their understanding of epidemiological concepts methods and areas of application The new edition provides an update of all chapters of the second edition and includes additional new chapters to account for recent developments in the field The book provides a comprehensive overview of the field and covers basic approaches as well as novel and advanced methodologies with a strong applied focus by integrating the most relevant state of the art knowledge that otherwise could only be gathered from single specialist publications dispersed over various scientific journals It reviews the key issues and methodological approaches pertinent to the field for which the reader pursues an expatiated overview It may thus serve both as a first orientation for the interested reader and as a starting point for an in depth study of a specific area as well as a quick reference and a recapitulatory update for the expert The broad scope of the book becomes apparent by its five sections that facilitate an integration of epidemiological concepts and methods statistical tools applications and epidemiological practice Part I covers Concepts and Designs in Epidemiology Part II Methodological Approaches in Epidemiology Part III Statistical Methods in Epidemiology Part IV Exposure Oriented Epidemiology and Part V Outcome Oriented Epidemiology All chapters follow a similar structure and highlight cross references to related topics and specialist knowledge to be found in the Handbook They give an overview of the topic and the most important problems and approaches that are illustrated by examples Each chapter serves as an introductory text that helps to enter a new field by addressing basic concepts without being too elementary Thus it also is of interest for readers who are familiar with the particular topic by reflecting on its state of the art and future perspectives Each chapter stands on its own and comprises introductory elements that can be understood by the novice i e a readership not being too familiar

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Handbook of Epidemiology Wolfgang Ahrens,Iris Pigeot,2007-07-26 This 3 volume reference covers the entire field of epidemiology from statistical methods and study design to specialized areas such as molecular epidemiology and applications in clinical medicine and health services research This updated edition of the Handbook of Epidemiology adds 22 new chapters on History of Epidemiological Methods and Concepts Cluster Randomized Trials Internet Based Epidemiology Misclassification Sensitivity Analysis and Bias Analysis Emergency and Disaster Health Surveillance Statistical Inference Data Management in Epidemiology Visual Display of Quantitative Information Bayesian Methods in Epidemiology Generalized Estimating Equations Directed Acyclic Graphs Life Course Epidemiology Molecular Epidemiology Physical Activity Radiation Epidemiology Epidemiology of Obesity Epidemiology of Respiratory Allergies and Asthma Epidemiology of Dental Diseases Epidemiology of Digestive Diseases Psychiatric Disorders Epidemiology of Diabetes All other chapters are extensively revised from the 1st edition This is a reference for epidemiological researchers and graduate students in public health

Epidemiological Research Methods Donald R. McNeil,1996-08-06 The concepts of epidemiology the science that uses statistical methods to investigate associations between risk factors and disease outcomes in human populations are developed using examples involving real data from published studies The relevant statistical methods are developed systematically to provide an integrated approach to observational and experimental studies After covering basic measurement study design and study credibility issues the author continues with basic statistical methods and techniques for adjusting risk estimates for confounders Statistical models including logistic regression and the proportional hazards model for survival analysis are explained in detail in the following chapters concluding with an explanation of the general methods for determining the sample size and power requirements for an epidemiological study Taking advantage of the power accessibility and user friendliness of modern computer packages the author uses a variety of interesting data sets and graphical displays to illustrate the methods Epidemiological Research Methods will be of interest to students and research workers who need to learn and appreciate modern approaches to the

subject Without unnecessary emphasis on mathematics or theory the book will enable the reader to gain a greater level of understanding of the underlying methods than is normally provided in books on epidemiology **Epidemiology and Medical Statistics** ,2007-11-21 This volume representing a compilation of authoritative reviews on a multitude of uses of statistics in epidemiology and medical statistics written by internationally renowned experts is addressed to statisticians working in biomedical and epidemiological fields who use statistical and quantitative methods in their work While the use of statistics in these fields has a long and rich history explosive growth of science in general and clinical and epidemiological sciences in particular have gone through a sea of change spawning the development of new methods and innovative adaptations of standard methods Since the literature is highly scattered the Editors have undertaken this humble exercise to document a representative collection of topics of broad interest to diverse users The volume spans a cross section of standard topics oriented toward users in the current evolving field as well as special topics in much need which have more recent origins This volume was prepared especially keeping the applied statisticians in mind emphasizing applications oriented methods and techniques including references to appropriate software when relevant Contributors are internationally renowned experts in their respective areas Addresses emerging statistical challenges in epidemiological biomedical and pharmaceutical research Methods for assessing Biomarkers analysis of competing risks Clinical trials including sequential and group sequential crossover designs cluster randomized and adaptive designs Structural equations modelling and longitudinal data analysis Statistics for Epidemiology Nicholas P. Jewell,2003-08-26 Statistical ideas have been integral to the development of epidemiology and continue to provide the tools needed to interpret epidemiological studies Although epidemiologists do not need a highly mathematical background in statistical theory to conduct and interpret such studies they do need more than an encyclopedia of recipes Statistics for E **Statistical Thinking in Epidemiology** Yu-Kang Tu,Mark Gilthorpe,2016-04-19 While biomedical researchers may be able to follow instructions in the manuals accompanying the statistical software packages they do not always have sufficient knowledge to choose the appropriate statistical methods and correctly interpret their results Statistical Thinking in Epidemiology examines common methodological and statistical problems *Biostatistics and Epidemiology* Sylvia Wassertheil-Smoller,2014-01-15

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