

## 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:

- `es 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

**Ray M. Merrill**



## **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.

*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 monitoring 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.

*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.

with the methodological background and extends to in depth knowledge that may serve as a reference for the trained epidemiologist The standard procedures and methods basic concepts and knowledge are presented as well as recent advances and new perspectives The list of references thus covers the whole range from introductory texts to publications for the advanced reader In particular the chapters on statistical methods are written for researchers in health sciences who do not have the background of theoretical statisticians and may be in need of application oriented tools These chapters offer numerous examples practical applications and illustrations Handbook of Epidemiology 3rd Edition is a relevant resource for professionals involved in health research health reporting health promotion disease prevention health services and health systems administration as well as those who need a reference book that covers all aspects of epidemiology as a comprehensive consultant for specific topics The Handbook also is a useful text for researchers and graduate students in all disciplines related to epidemiology and public health

**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

**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

*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

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

**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

*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 Epidemiology achieves just the right balance between the two approaches building an intuitive understanding of the methods most important to practitioners and the skills to use them effectively It develops the techniques for analyzing simple risk factors and disease data with step by step extensions that include the use of binary regression It covers the logistic regression model in detail and contrasts it with the Cox model for time to incidence data The author uses a few simple case studies to guide readers from elementary analyses to more complex regression modeling Following these examples through several chapters makes it easy to compare the interpretations that emerge from varying approaches Written by one of the top biostatisticians in the field Statistics for Epidemiology stands apart in its focus on interpretation and in the depth of understanding it provides It lays the groundwork that all public health professionals epidemiologists and biostatisticians need to successfully design conduct and analyze epidemiological studies *Quantitative Methods for Health Research* Nigel Bruce, Daniel Pope, Debbi Stanistreet, 2013-03-18 *Quantitative Research Methods for Health Professionals A Practical Interactive Course* is a superb introduction to epidemiology biostatistics and research methodology for the whole health care community Drawing examples from a wide range of health research this practical handbook covers important contemporary health research methods such as survival analysis Cox regression and meta analysis the understanding of which go beyond introductory concepts The book includes self assessment exercises throughout to help students explore and reflect on their understanding and a clear distinction is made between a knowledge and concepts that all students should ensure they understand and b those that can be pursued by students who wish to do so The authors incorporate a program of practical exercises in SPSS using a prepared data set that helps to consolidate the theory and develop skills and confidence in data handling analysis and interpretation **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 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 [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 **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

**Introduction to Epidemiology** Ray M. Merrill, 2013 This Sixth Edition is a introductory text for the epidemiology student with minimal training in the biomedical sciences and statistics With updated tables figures and examples throughout the Sixth Edition is a thorough revision that offers an all new real world examples to help better illustrate elusive concepts Learning objectives as well as study questions with descriptive answers in each chapter engage the student in further analysis and reflection New Features of the Sixth Edition Updated tables and figures Addition of several real world practical examples Added focus on setting up contingency tables and calculating and interpreting appropriate measures of association Greater detail and examples on conducting hypothesis testing Greater detail and examples on calculating age adjusting rates Greater detail and examples on calculating years of potential life lost Greater detail and examples on assessing clinical trials Updated case studies

*Concise Handbook of Epidemiology (Second Edition)* Jalal-Eddeen Abubakar Saleh, 2024-12-11 Concise Handbook of Epidemiology is an essential resource introducing readers to core principles models and research methods of modern epidemiology This comprehensive guide covers foundational concepts like health and disease disease occurrence epidemiological models and study designs It also talks about disease surveillance outbreak investigations statistical methods and advanced epidemiological techniques including the impact of genomics and community based epidemiology Each chapter incorporates real world case studies offering readers practical insights and applications Ethical considerations innovative methods and future directions in the field ensure readers are equipped with foundational knowledge and forward looking perspectives Key Features Foundational Overview Covers health disease occurrence and key epidemiological frameworks Practical Tools Offers research designs statistical methods and real world case studies Advanced Topics Explores genomics statistical advances and challenges in modern epidemiology Future Focus Discusses ethics and evolving innovations shaping epidemiological practices

[Biostatistics and Epidemiology](#) Sylvia Wassertheil-Smoller, 2014-01-15 *Modern Statistical Methods in Chronic Disease Epidemiology* Suresh H. Moolgavkar, Ross L. Prentice, 1986

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