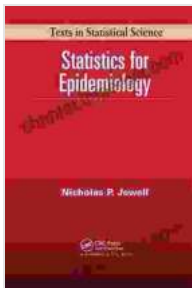


# Statistics For Epidemiology: The Essential Guide

Epidemiology, the study of the distribution and determinants of health-related states or events in specified populations, plays a pivotal role in public health. Statistics, as a powerful tool, enables epidemiologists to make sense of complex data, draw inferences, and make informed decisions to improve population health.



## Statistics for Epidemiology (Chapman & Hall/CRC Texts in Statistical Science Book 58) by Nicholas P. Jewell

★★★★☆ 4.7 out of 5

Language : English

File size : 4881 KB

Print length : 352 pages

X-Ray for textbooks : Enabled



In this comprehensive guide, "Statistics for Epidemiology," authors James F. Jekel, Joel Abramson, and William J. Willett provide a thorough exploration of the field, empowering readers with the statistical knowledge and skills essential for successful epidemiological research.

### Key Features

- **Comprehensive Coverage:** Covers the full spectrum of statistical methods used in epidemiology, from descriptive statistics to advanced modeling techniques.

- **Practical Applications:** Provides numerous real-world examples and case studies to illustrate the practical application of statistical methods in epidemiological research.
- **Step-by-Step Guidance:** Offers clear and concise explanations of statistical concepts, with step-by-step instructions for conducting data analysis.
- **Accompanying Website:** Includes access to an online supplement featuring additional resources, such as datasets, exercises, and interactive simulations.

## Target Audience

This book is an invaluable resource for:

- Students pursuing degrees in epidemiology, public health, and related fields.
- Researchers conducting epidemiological studies.
- Public health professionals involved in disease surveillance, outbreak investigation, and health policy development.

## Content Overview

The book is organized into 15 chapters, covering the following key topics:

1. **to Epidemiology and Statistics:** Provides an overview of the field and the role of statistics in epidemiological research.
2. **Descriptive Statistics:** Introduces measures of central tendency, dispersion, and distribution, and their use in summarizing data.

3. **Probability:** Discusses the basic concepts of probability theory, including events, probabilities, and conditional probability.
4. **Inferential Statistics:** Explains the principles of inferential statistics, hypothesis testing, and confidence intervals.
5. **Regression Analysis:** Covers linear regression, logistic regression, and other regression techniques used to model relationships between variables.
6. **Analysis of Variance:** Explores the analysis of variance (ANOVA) and its applications in comparing group means.
7. **Survival Analysis:** Introduces survival analysis methods, including life tables and Kaplan-Meier curves, for studying the time to occurrence of events.
8. **Cohort Studies:** Describes the design, conduct, and analysis of cohort studies, a common type of observational study.
9. **Case-Control Studies:** Discusses the principles and methods of case-control studies, another important observational study design.
10. **Meta-Analysis:** Covers the statistical techniques for combining results from multiple studies.
11. **Ethical Issues in Epidemiology:** Examines the ethical considerations in conducting epidemiological research, including privacy, confidentiality, and informed consent.
12. **Communicating Epidemiological Findings:** Provides guidance on effectively presenting and interpreting epidemiological results to diverse audiences.

13. **Special Topics:** Explores advanced topics, such as Bayesian statistics, spatial epidemiology, and genetic epidemiology.

## Benefits of Using This Book

By using "Statistics for Epidemiology," readers will gain a comprehensive understanding of:

- The principles and methods of statistical analysis.
- The proper design, conduct, and analysis of epidemiological studies.
- The interpretation and communication of epidemiological findings.
- The ethical considerations in epidemiological research.

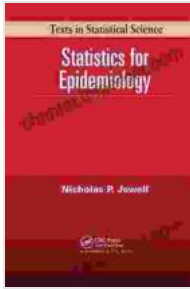
This knowledge will empower readers to effectively contribute to the field of epidemiology and make a meaningful impact on public health.

"Statistics for Epidemiology" is an indispensable guide for anyone seeking to master the statistical tools essential for successful epidemiological research. Its comprehensive content, practical examples, and step-by-step approach make it an invaluable resource for students, researchers, and professionals alike. By harnessing the power of statistics, epidemiologists can unlock the secrets of disease distribution and determinants, enabling them to make informed decisions that improve population health.

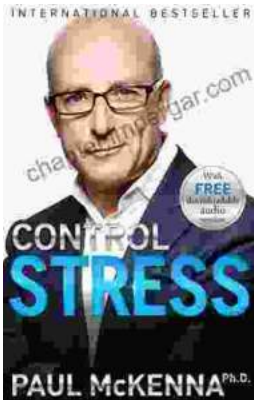
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