Epidemiologic Research. Principles and Quantitative Methods

Description:
Epidemiologic Research Principles and Quantitative Methods David G. Kleinbaum, Ph.D. Lawrence L. Kupper, Ph.D. Hal Morgenstern, Ph.D.

Epidemiologic Research covers the principles and methods of planning, analysis and interpretation of epidemiologic research studies. It supplies the applied researcher with the most up-to-date methodological thought and practice. Specifically, the book focuses on quantitative (including statistical) issues arising from epidemiologic investigations, as well as on the questions of study design, measurement and validity. Epidemiologic Research emphasizes practical techniques, procedures and strategies. It presents them through a unified approach which follows the chronology of issues that arise during the investigation of an epidemic. The book's viewpoint is multidisciplinary and equally useful to the epidemiologic researcher and to the biostatistician. Theory is supplemented by numerous examples, exercises and applications. Full solutions are given to all exercises in a separate solutions manual. Important features

- Thorough discussion of the methodology of epidemiologic research
- Stress on validity and hence on reliability
- Balanced approach, presenting the most important prevailing viewpoints
- Three chapters with applications of mathematical modeling

Contents:
Key Issues in Epidemiologic Research: An Overview.

OBJECTIVES AND METHODS OR EPIDEMIOLOGIC RESEARCH.

Fundamentals of Epidemiologic Research.
Types of Epidemiologic Research.
Design Options in Observational Studies.
Typology of Observational Study Designs.
Measures of Disease Frequency: Incidence.
Other Measures of Disease Frequency.
Measures of Association.
Measures of Potential Impact and Summary of the Measures.

VALIDITY OF EPIDEMIOLOGIC RESEARCH.

Validity: General Considerations.
Selection Bias.
Information Bias.
Confounding.
Confounding Involving Several Risk Factors.

PRINCIPLES AND PROCEDURES OF EPIDEMIOLOGIC ANALYSIS.

Statistical Inferences About Effect Measures: Simple Analysis.
Overview of Options for Control of Extraneous Factors.

Stratified Analysis.

Matching in Epidemiologic Studies.

Interaction, Effect Modification, and Synergism.

Modeling: Theoretical Considerations.

Modeling: Analysis Strategy.

Applications of Modeling with No Interaction.

Applications of Logistic Regression with Interaction, Using Unconditional ML Estimation.

Applications of Modeling: Conditional Likelihood Estimation.

Appendices.

Index.

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