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Nota di contenuto	Tutorials in Biostatistics; Contents; Preface; Preface to Volume 1; Part I OBSERVATIONAL STUDIES/EPIDEMIOLOGY; 1.1 Epidemiology; Computing Estimates of Incidence, Including Lifetime Risk: Alzheimer's Disease in the Framingham Study. The Practical Incidence Estimators (PIE) Macro.; The Applications of Capture-Recapture Models to Epidemiological Data.; 1.2 Adjustment Methods; Propensity Score Methods for Bias Reduction in the Comparison of a Treatment to a Non-Randomized Control Group.; 1.3 Agreement Statistics; Kappa Coe cients in Medical Research. Helen Chmura Kraemer,; 1.4 Survival Models Survival Analysis in Observational Studies.Methods for Interval-Censored Data.; Analysis of Binary Outcomes in Longitudinal Studies Using Weighted Estimating Equations and Discrete-Time Survival Methods: Prevalence and Incidence of Smoking in an Adolescent Cohort.; Part II PROGNOSTIC/CLINICAL PREDICTION MODELS; 2.1

Prognostic Variables; Categorizing a Prognostic Variable: Review of Methods, Code for Easy Implementation and Applications to Decision-Making about Cancer Treatments.; 2.2 Prognostic/Clinical Prediction Models
Development of Health Risk Appraisal Functions in the Presence of Multiple Indicators: The Framingham Study Nursing Home Institutionalization Model.Multivariable Prognostic Models: Issues in Developing Models, Evaluating Assumptions and Adequacy, and Measuring and Reducing Errors.; Development of a Clinical Prediction Model for an Ordinal Outcome: The World Health Organization Multicentre Study of Clinical Signs and Etiological Agents of Pneumonia, Sepsis and Meningitis in Young Infants.; Using Observational Data to Estimate Prognosis: An Example Using a Coronary Artery Disease Registry.
Part III CLINICAL TRIALS3.1 Design; Designing Studies for Dose Response.; 3.2 Monitoring; Bayesian Data Monitoring in Clinical Trials.; 3.3 Analysis; Longitudinal Data Analysis (Repeated Measures) in Clinical Trials.; Repeated Measures in Clinical Trials: Simple Strategies for Analysis Using Summary Measures.; Strategies for Comparing Treatments on a Binary Response with Multi-Centre Data.; A Review of Tests for Detecting a Monotone Dose-Response Relationship with Ordinal Response Data.; Index

Sommario/riassunto

The Tutorials in Biostatistics have become a very popular feature of the prestigious Wiley journal, Statistics in Medicine (SIM). The introductory style and practical focus make them accessible to a wide audience including medical practitioners with limited statistical knowledge. This book represents the first of two volumes presenting the best tutorials published in SIM, focusing on statistical methods in clinical studies. Topics include the design and analysis of clinical trials, epidemiology, survival analysis, and data monitoring. Each tutorial is focused on a medical probl