

1. Record Nr.	UNINA9910143579003321
Titolo	Tutorials in biostatistics . Volume 2 Statistical modelling of complex medical data [[electronic resource] /] / edited by R.B. D'Agostino
Pubbl/distr/stampa	Chichester, West Sussex ; ; Hoboken, N.J., : John Wiley & Sons, c2004
ISBN	1-280-28755-1 9786610287550 0-470-02372-4 0-470-02371-6
Descrizione fisica	1 online resource (498 p.)
Altri autori (Persone)	D'AgostinoRalph B
Disciplina	519.502461 610.727 610/.7/27
Soggetti	Medicine - Research - Statistical methods Medical statistics Biometry Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Tutorials in Biostatistics; Contents; Preface; Preface to Volume 2; Part I MODELLING A SINGLE DATA SET; 1.1 Clustered Data; Extending the Simple Linear Regression Model to Account for Correlated Responses: An Introduction to Generalized Estimating Equations and Multi-Level Mixed Modelling.; 1.2 Hierarchical Modelling; An Introduction to Hierarchical Linear Modelling.; Multilevel Modelling of Medical Data.; Hierarchical Linear Models for the Development of Growth Curves: An Example with Body Mass Index in Overweight /Obese Adults.; 1.3 Mixed Models Using the General Linear Mixed Model to Analyse Unbalanced Repeated Measures and Longitudinal Data.Modelling Covariance Structure in the Analysis of Repeated Measures Data.; Covariance Models for Nested Repeated Measures Data: Analysis of Ovarian Steroid Secretion Data.; 1.4 Likelihood Modelling; Likelihood Methods for Measuring Statistical Evidence.; Part II MODELLING MULTIPLE DATA SETS: META-ANALYSIS;

Meta-Analysis: Formulating, Evaluating, Combining, and Reporting.;
Advanced Methods in Meta-Analysis: Multivariate Approach and Meta-
Regression.

Part III MODELLING GENETIC DATA: STATISTICAL GENETICS Genetic
Epidemiology: A Review of the Statistical Basis.; Genetic Mapping of
Complex Traits.; A Statistical Perspective on Gene Expression Data
Analysis.; Part IV DATA REDUCTION OF COMPLEX DATA SETS; Statistical
Approaches to Human Brain Mapping by Functional Magnetic
Resonance Imaging.; Disease Map Reconstruction.; PART V SIMPLIFIED
PRESENTATION OF MULTIVARIATE DATA; Presentation of Multivariate
Data for Clinical Use: The Framingham Study Risk Score Functions.;
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 second of two volumes presenting the best tutorials published in SIM, focusing on statistical modeling of complex data. Topics include clustered data, hierarchical models, mixed models, genetic modeling, and meta-analysis. Each tutorial is focused on a medical problem, has been
