

1. Record Nr.	UNINA9910817367003321
Autore	Twisk Jos W. R. <1962->
Titolo	Applied longitudinal data analysis for epidemiology [[electronic resource] ] : a practical guide / / Jos W.R
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2013
ISBN	1-107-06535-6 1-316-09031-0 1-107-05691-8 1-107-05475-3 1-107-05804-X 1-107-05931-3 1-139-34283-5 1-107-05581-4
Edizione	[Second edition.]
Descrizione fisica	1 online resource (xiv, 321 pages) : digital, PDF file(s)
Collana	Cambridge medicine Applied longitudinal data analysis for epidemiology
Classificazione	MED028000
Disciplina	614.4
Soggetti	Epidemiology - Research - Statistical methods Epidemiology Epidemiology - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine generated contents note: Preface; Acknowledgements; 1. Introduction; 2. Study design; 3. Continuous outcome variables; 4. Continuous outcome variables - relationships with other variables; 5. The modelling of time; 6. Other possibilities for modelling longitudinal data; 7. Dichotomous outcome variables; 8. Categorical and 'count' outcome variables; 9. Analysis data from experimental studies; 10. Missing data in longitudinal studies; 11. Sample size calculations; 12. Software for longitudinal data analysis; 13. One step further; References; Index.
Sommario/riassunto	This book discusses the most important techniques available for longitudinal data analysis, from simple techniques such as the paired t-test and summary statistics, to more sophisticated ones such as

generalized estimating of equations and mixed model analysis. A distinction is made between longitudinal analysis with continuous, dichotomous and categorical outcome variables. The emphasis of the discussion lies in the interpretation and comparison of the results of the different techniques. The second edition includes new chapters on the role of the time variable and presents new features of longitudinal data analysis. Explanations have been clarified where necessary and several chapters have been completely rewritten. The analysis of data from experimental studies and the problem of missing data in longitudinal studies are discussed. Finally, an extensive overview and comparison of different software packages is provided. This practical guide is essential for non-statisticians and researchers working with longitudinal data from epidemiological and clinical studies.

---