Record Nr. UNINA9910826704803321 Autore Mallinckrodt Craig H. <1958-> Titolo Preventing and treating missing data in longitudinal clinical trials: a practical guide / / Craig H. Mallinckrodt [[electronic resource]] Cambridge:,: Cambridge University Press,, 2013 Pubbl/distr/stampa 1-107-23773-4 **ISBN** 1-107-30590-X 1-107-30692-2 1-107-30912-3 1-107-30183-1 1-107-31467-4 1-139-38166-0 1-107-31247-7 1-299-00912-3 Descrizione fisica 1 online resource (xviii, 165 pages) : digital, PDF file(s) Collana Practical guides to biostatistics and epidemiology Classificazione MED090000 Disciplina 610.72/4 Soggetti Clinical trials Medical sciences - Statistical methods Regression analysis - Data processing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Title from publisher's bibliographic system (viewed on 05 Oct 2015). Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Machine generated contents note: Part I. Background and Setting: 1. Why missing data matter; 2. Missing data mechanisms; 3. Estimands; Part II. Preventing Missing Data: 4. Trial design considerations; 5. Trial conduct considerations: Part III. Analytic Considerations: 6. Methods of estimation; 7. Models and modeling considerations; 8. Methods of dealing with missing data; Part IV. Analyses and the Analytic Road Map: 9. Analyses of incomplete data; 10. MNAR analyses; 11. Choosing primary estimands and analyses; 12. The analytic road map; 13. Analyzing incomplete categorical data; 14. Example; 15. Putting principles into practice. Sommario/riassunto Recent decades have brought advances in statistical theory for missing data, which, combined with advances in computing ability, have

allowed implementation of a wide array of analyses. In fact, so many methods are available that it can be difficult to ascertain when to use which method. This book focuses on the prevention and treatment of missing data in longitudinal clinical trials. Based on his extensive experience with missing data, the author offers advice on choosing analysis methods and on ways to prevent missing data through appropriate trial design and conduct. He offers a practical guide to key principles and explains analytic methods for the non-statistician using limited statistical notation and jargon. The book's goal is to present a comprehensive strategy for preventing and treating missing data, and to make available the programs used to conduct the analyses of the example dataset.