Record Nr. UNINA9910876584003321 Applied Bayesian modeling and causal inference from incomplete-data **Titolo** perspectives: an essential journey with Donald Rubin's statistical family // edited by Andrew Gelman, Xiao-Li Meng Chichester, West Sussex, England;; Hoboken, NJ,: Wilev. c2004 Pubbl/distr/stampa **ISBN** 1-280-26898-0 9786610268986 0-470-09045-6 0-470-09044-8 Edizione [1st ed.] Descrizione fisica 1 online resource (437 p.) Collana Wiley series in probability and statistics Altri autori (Persone) RubinDonald B GelmanAndrew MengXiao-Li Disciplina 519.5/42 Bayesian statistical decision theory Soggetti Missing observations (Statistics) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references (p. 361-400) and index. Applied Bayesian Modeling and Causal Inference from Incomplete-Data Nota di contenuto Perspectives; Contents; Preface; I Casual inference and observational studies; 1 An overview of methods for causal inference from observational studies: 1.1 Introduction: 1.2 Approaches based on causal models; 1.3 Canonical inference; 1.4 Methodologic modeling; 1.5 Conclusion; 2 Matching in observational studies; 2.1 The role of matching in observational studies; 2.2 Why match?; 2.3 Two key issues: balance and structure; 2.4 Additional issues; 3 Estimating causal effects in nonexperimental studies; 3.1 Introduction 3.2 Identifying and estimating the average treatment effect3.3 The NSW data; 3.4 Propensity score estimates; 3.5 Conclusions; 4 Medication cost sharing and drug spending in Medicare; 4.1 Methods; 4.2 Results; 4.3 Study limitations; 4.4 Conclusions and policy implications; 5 A comparison of experimental and observational data analyses; 5.1

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## Sommario/riassunto

This book brings together a collection of articles on statistical methods relating to missing data analysis, including multiple imputation, propensity scores, instrumental variables, and Bayesian inference. Covering new research topics and real-world examples which do not feature in many standard texts. The book is dedicated to Professor Don Rubin (Harvard). Don Rubin has made fundamental contributions to the study of missing data. Key features of the book include:Comprehensive coverage of an imporant area for both research and applications. Adopts a pragmatic approach to describ