Record Nr. UNINA9911020066103321 Autore Pintilie Melania **Titolo** Competing risks: a practical perspective / / Melania Pintilie Chichester, England;; Hoboken, NJ,: John Wiley & Sons, c2006 Pubbl/distr/stampa **ISBN** 9786612123863 9786610722228 9781280722226 1280722223 9781282123861 1282123866 9780470870709 0470870702 9780470870693 0470870699 Descrizione fisica 1 online resource (242 p.) Collana Statistics in practice Disciplina 519.2 Soggetti Competing risks 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 (p. 209-213) and index. Competing Risks; Contents; Preface; Acknowledgements; 1 Nota di contenuto Introduction; 1.1 Historical notes; 1.2 Defining competing risks; 1.3 Use of the Kaplan-Meier method in the presence of competing risks; 1.4 Testing in the competing risk framework; 1.5 Sample size calculation; 1.6 Examples; 1.6.1 Tamoxifen trial; 1.6.2 Hypoxia study; 1.6.3 Follicular cell lymphoma study; 1.6.4 Bone marrow transplant study; 1.6.5 Hodgkin's disease study; 2 Survival - basic concepts; 2.1 Introduction; 2.2 Definitions and background formulae; 2.2.1 Introduction; 2.2.2 Basic mathematical formulae 2.2.3 Common parametric distributions 2.2.4 Censoring and assumptions; 2.3 Estimation and hypothesis testing; 2.3.1 Estimating the hazard and survivor functions; 2.3.2 Nonparametric testing: logrank and Wilcoxon tests; 2.3.3 Proportional hazards model; 2.4

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Sommario/riassunto

The need to understand, interpret and analyse competing risk data is key to many areas of science, particularly medical research. There is a real need for a book that presents an overview of methodology used in the interpretation and analysis of competing risks, with a focus on practical applications to medical problems, and incorporating modern techniques. This book fills that need by presenting the most up-to-date methodology, in a way that can be readily understood, and applied, by the practitioner.