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| 1. Record Nr. | UNIORUON00138844 |
| Titolo | Maqaleha-ye 'elmi-e siminar-e beyno 'l-melali-e tahqiqt-e kusani
1357/1978 / Ministry of Information and Culture |
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| 2. Record Nr. | UNINA9911020066103321 |
| Autore | Pintilie Melania |
| Titolo | Competing risks : a practical perspective / / Melania Pintilie |
| Pubbl/distr/stampa | Chichester, England ; ; Hoboken, NJ, : John Wiley & Sons, c2006 |
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| Descrizione fisica | 1 online resource (242 p.) |
| Collana | Statistics in practice |
| Disciplina | 519.2 |
| Soggetti | Competing risks |
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Nota di bibliografia	Includes bibliographical references (p. 209-213) and index.
Nota di contenuto	<p>Competing Risks; Contents; Preface; Acknowledgements; 1 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: log-rank and Wilcoxon tests; 2.3.3 Proportional hazards model; 2.4 Software for survival analysis; 2.5 Closing remarks; 3 Competing risks - definitions; 3.1 Recognizing competing risks; 3.1.1 Practical approaches; 3.1.2 Common endpoints in medical research; 3.2 Two mathematical definitions; 3.2.1 Competing risks as bivariate random variable; 3.2.2 Competing risks as latent failure times 3.3 Fundamental concepts 3.3.1 Competing risks as bivariate random variable; 3.3.2 Competing risks as latent failure times; 3.3.3 Discussion of the two approaches; 3.4 Closing remarks; 4 Descriptive methods for competing risks data; 4.1 Product-limit estimator and competing risks; 4.2 Cumulative incidence function; 4.2.1 Heuristic estimation of the CIF; 4.2.2 Nonparametric maximum likelihood estimation of the CIF; 4.2.3 Calculating the CIF estimator; 4.2.4 Variance and confidence interval for the CIF estimator; 4.3 Software and examples; 4.3.1 Using R; 4.3.2 Using SAS; 4.4 Closing remarks</p> <p>5 Testing a covariate 5.1 Introduction; 5.2 Testing a covariate; 5.2.1 Gray's method; 5.2.2 Pepe and Mori's method; 5.3 Software and examples; 5.3.1 Using R; 5.3.2 Using SAS; 5.4 Closing remarks; 6 Modelling in the presence of competing risks; 6.1 Introduction; 6.2 Modelling the hazard of the cumulative incidence function; 6.2.1 Theoretical details; 6.2.2 Model-based estimation of the CIF; 6.2.3 Using R; 6.3 Cox model and competing risks; 6.4 Checking the model assumptions; 6.4.1 Proportionality of the cause-specific hazards; 6.4.2 Proportionality of the hazards of the CIF 6.4.3 Linearity assumption 6.5 Closing remarks; 7 Calculating the power in the presence of competing risks; 7.1 Introduction; 7.2 Sample size calculation when competing risks are not present; 7.3 Calculating power in the presence of competing risks; 7.3.1 General formulae; 7.3.2 Comparing cause-specific hazards; 7.3.3 Comparing hazards of the subdistributions; 7.3.4 Probability of event when the exponential distribution is not a valid assumption; 7.4 Examples; 7.4.1 Introduction; 7.4.2 Comparing the cause-specific hazard; 7.4.3 Comparing the hazard of the subdistribution; 7.5 Closing remarks</p> <p>8 Other issues in competing risks</p>
Sommario/riassunto	<p>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.</p>