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| Titolo | Randomized clinical trials : design, practice and reporting // David Machin, Peter M. Fayers, Bee Choo Tai |
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| ISBN | 1-119-52467-9 1-119-52468-7 1-119-52465-2 |
| Edizione | [2nd edition.] |
| Descrizione fisica | 1 online resource (553 pages) |
| Disciplina | 610.724 |
| Soggetti | Clinical trials Clinical trials - Statistical methods |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Design Features -- The Trial Protocol -- Measurement and Data Capture -- Randomisation -- Trial Initiation -- Trial Conduct and Completion -- Basics for Analysis -- Trial Size -- Data and Safety Monitoring -- Reporting -- More than Two Interventions -- Paired and Matched Designs -- Repeated Measures Design -- Non-Inferiority and Equivalence Trials -- Cluster Designs -- Stepped Wedge Designs -- Genomic Targets -- Feasibility and Pilot Studies -- Further Topics. |
| Sommario/riassunto | "It is now more than ten years since the first edition of this book was published. In the intervening years, while many things have remained unchanged, there have also been many new developments over the period. This second edition refreshes the first, refining some of the sections to better explain their contents and, at the same time, replacing some examples with more current illustrations. To reflect the changes, we have created new chapters by splitting and then expanding old chapters. Thus, we now include full chapters on data and safety monitoring including interim analyses of accumulating data, cluster designs, repeated measures, and non-inferiority designs as there has been a rapid increase in the use of such trial designs along with some methodological developments and improvements in |

statistical software available for analysis. In addition, we have included entirely new chapters on stepped wedge designs, genomic targets and, feasibility and pilot studies. The chapter on stepped wedge designs reflects the growing importance of such complex intervention designs while that on genomic targets highlights the research focus directed towards more individualised medicine. In contrast the new chapter concerned with feasibility and pilot studies brings us back to the early planning stages of the clinical trial which is planned. The chapter is included as there is increasing recognition that perhaps a more structured approach is required at the planning stage of any proposed trial. The intention is to help avoid the conduct of clinical trials which fail due to the basic assumptions made at the planning stage being inappropriate. This edition is divided into three sections: I Basic Considerations, II Adaptions of the Basic Design, and III Further Topics. As the title suggests, the first section is intended to cover topics that are relevant to all randomised trials of whatever design and complexity. Thus, it may be the key section for those who are new to clinical trials and an aide-memoire for those more experienced in this area. For this purpose, it concentrates on the parallel two-group controlled trial with a single outcome measure where patients are randomised individually to one of the two interventions concerned. The second section expands on the individually randomised design in several ways by considering paired designs, repeated assessments of the (same) outcome measure over time, more than two interventions, and non-inferiority trials. It also includes cluster trials, and stepped wedge designs in which groups rather than individuals are randomised to the interventions concerned. The final section deals with genomic targets, feasibility and pilot studies, and a final chapter on miscellaneous topics including adaptive designs, large simple trials and very small trials with new additions describing alpha spending functions and the predictive probability test for use in interim analyses"--
