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Nota di contenuto	Cross-over Trials in Clinical Research; Contents; Preface to the second edition; Preface to the first edition; 1 Introduction; 1.1 The purpose of this chapter; 1.2 An example; 1.3 Why are cross-over trials performed?; 1.4 What are the disadvantages of cross-over trials?; 1.5 Where are cross-over trials useful?; 1.6 What attitude to cross-over trials will be adopted in this book?; 1.7 Carry-over; 1.8 What may be done about carry-over?; 1.9 Other attitudes to be adopted; 1.10 Where else can one find out about cross-over trials? 2 Some basic considerations concerning estimation in clinical trials*2.1 The purpose of this chapter; 2.2 Assumed background knowledge; 2.3 Control in clinical trials; 2.4 Two purposes of estimation; 2.5 Some features of estimation; 2.6 Practical consequences for cross-over trials; 3 The AB/BA design with Normal data; 3.1 An example; 3.2 A simple analysis ignoring the effect of period; 3.3 Student's approach*; 3.4 Assumptions in the matched-pairs t approach; 3.5 Adjusting for a period effect: two-sample t approach; 3.6 Adjusting for a period effect: the Hills-Armitage approach

3.7 Examining period effects; 3.8 Testing for carry-over and/or treatment by period interaction\*; 3.9 A model for the AB/BA cross-over\*; 3.10 Carry-over or treatment by period interaction?\*; 3.11 Confidence intervals for carry-over\*; 3.12 Are unbiased estimators of the treatment effect available?\*; 3.13 Can we adjust for carry-over?\*; 3.14 The two-stage analysis\*; 3.15 Correcting the two-stage procedure\*; 3.16 Use of baseline measurements; 3.17 A Bayesian approach; 3.18 Computer analysis; 3.19 Further reading; 3.20 Recommendations; Appendix 3.1 Analysis with GenStat® Appendix 3.2 Analysis with S-Plus® 4 Other outcomes and the AB/BA design; 4.1 Introduction; 4.2 Transformations; 4.3 Non-parametric methods; 4.4 Binary outcomes; 4.5 Ordered categorical data; 4.6 Frequency data; 4.7 'Survival' data\*; 4.8 Final remarks; Appendix 4.1 Analysis with GenStat®; Appendix 4.2 Analysis with S-Plus®; 5 Normal data from designs with three or more treatments; 5.1 Why do we have designs with three or more treatments?; 5.2 Sequences for trials with three or more treatments; 5.3 Analyses ignoring the effect of period; 5.4 Allowing for period effects 5.5 Other miscellaneous issues 5.6 Recommendations; Appendix 5.1 Analysis with GenStat®; Appendix 5.2 Analysis with S-Plus®; 6 Other outcomes from designs with three or more treatments; 6.1 Introduction; 6.2 Analyses which take no account of period effects; 6.3 Non-parametric analyses adjusting for period effects; 6.4 Hodges-Lehmann type estimators\*; 6.5 A stratified period adjusted sign test; 6.6 Binary data; 6.7 Other analyses; Appendix 6.1 Analysis with GenStat®; Appendix 6.2 Analysis with S-Plus®; 7 Some special designs; 7.1 The scope of this chapter; 7.2 Factorial designs 7.3 Incomplete block designs

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## Sommario/riassunto

Cross-over trials are an important class of design used in the pharmaceutical industry and medical research, and their use continues to grow. Cross-over Trials in Clinical Research, Second Edition has been fully updated to include the latest methodology used in the design and analysis of cross-over trials. It includes more background material, greater coverage of important statistical techniques, including Bayesian methods, and discussion of analysis using a number of statistical software packages.\* Comprehensive coverage of the design and analysis of cross-over trials.\* Each techn

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