



Introduction to Randomized Controlled Clinical Trials, Second Edition (Chapman & Hall/CRC Texts in Statistical Science)

By John N.S. Matthews

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Evidence from randomized controlled clinical trials is widely accepted as the only sound basis for assessing the efficacy of new medical treatments. Statistical methods play a key role in all stages of these trials, including their justification, design, and analysis. This second edition of *Introduction to Randomized Controlled Clinical Trials* provides a concise presentation of the principles applied in this area. It details the concepts behind randomization and methods for designing and analyzing trials and also includes information on meta-analysis and specialized designs, such as cross-over trials, cluster-randomized designs, and equivalence studies.

This latest edition features new and revised references, examples, exercises, and a new chapter dedicated to binary outcomes and survival analysis. It also presents numerous examples taken from the medical literature, contains exercises at the end of each chapter, and offers solutions in an appendix. The author uses Minitab and R software throughout the text for implementing the methods that are presented.

Comprehensive and accessible, *Introduction to Randomized Controlled Clinical Trials* is well-suited for those familiar with elementary statistical ideas and methods who want to further their knowledge of the subject.

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- Sales Rank: #1997432 in Books
- Brand: Brand: Chapman and Hall/CRC
- Published on: 2006-06-26
- Released on: 2006-06-26
- Original language: English
- Number of items: 1
- Dimensions: 9.13" h x .69" w x 6.13" l, .96 pounds
- Binding: Paperback
- 302 pages

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Editorial Review

Review

"This remarkably well written book is both concise and thorough in covering the material that it chooses to present. Both statistical concepts and medical examples are explained in clear prose. This is the sort of book that I wish I had had when I first learned about clinical trials. . . . I particularly like Matthews' thoughtful philosophy, which carefully balances the many statistical and medical concerns in the design and analysis of clinical trials. . . . The exercises at the end of each chapter are quite helpful for testing the reader's understanding, and thorough solutions are given in the back of the book. . . . In a sea of overpriced textbooks, it is well worth the low price . . . this book will provide readers with a broad statistical foundation and hopefully whet their interest to learn more about clinical trials." -- *JASA*

About the Author

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