



Jay Bartroff, Tze Leung Lai, Mei-Chiung Shih

Sequential Experimentation in Clinical Trials

Design and Analysis

Series: Springer Series in Statistics

- **Interdisciplinary approach that Statistics researchers and advanced students will use, in addition to Statisticians working in medical fields**
- **Includes recent work that provides a new class of adaptive designs which are both flexible and efficient - a new development for adaptive design literature**
- **Uses a unique approach to: early phase I and II trials, both information and time-sequential phase III trials, the analysis following a clinical trial, the interactions between each of the stages**

Sequential Experimentation in Clinical Trials: Design and Analysis is developed from decades of work in research groups, statistical pedagogy, and workshop participation. Different parts of the book can be used for short courses on clinical trials, translational medical research, and sequential experimentation. The authors have successfully used the book to teach innovative clinical trial designs and statistical methods for Statistics Ph.D. students at Stanford University. There are additional online supplements for the book that include chapter-specific exercises and information. Sequential Experimentation in Clinical Trials: Design and Analysis covers the much broader subject of sequential experimentation that includes group sequential and adaptive designs of Phase II and III clinical trials, which have attracted much attention in the past three decades. In particular, the broad scope of design and analysis problems in sequential experimentation clearly requires a wide range of statistical methods and models from nonlinear regression analysis, experimental design, dynamic programming, survival analysis, resampling, and likelihood and Bayesian inference. The background material in these building blocks is summarized in Chapter 2 and Chapter 3 and certain sections in Chapter 6 and Chapter 7.

2013, XVI, 240 p.

Printed book

Hardcover

109,99 € | £99.99 | \$139.99

^[1]117,69 € (D) | 120,99 € (A) | CHF 130,00

Softcover

109,99 € | £96.50 | \$139.00

^[1]117,69 € (D) | 120,99 € (A) | CHF 130,00

eBook

93,08 € | £77.00 | \$109.00

^[2]93,08 € (D) | 93,08 € (A) | CHF 104,00Available from your library or springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

