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Statistical Design and Analysis of Clinical Trials: Principles and Methods (Chapman & Hall/CRC Biostatistics Series)

By Weichung Joe Shih, Joseph Aisner



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Statistical Design and Analysis of Clinical Trials: Principles and Methods

concentrates on the biostatistics component of clinical trials. Developed from the authors' courses taught to public health and medical students, residents, and fellows during the past 15 years, the text shows how biostatistics in clinical trials is an integration of many fundamental scientific principles and statistical methods.

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This text reflects the academic research, commercial development, and public health aspects of clinical trials. It gives students a multidisciplinary understanding of the concepts and techniques involved in designing and analyzing various types of trials. The book's balanced set of homework assignments and in-class exercises are appropriate for students in (bio)statistics, epidemiology, medicine, pharmacy, and public health.



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Editorial Review

About the Author

Weichung Joe Shih, PhD, is professor and chair of the Department of Biostatistics in the Rutgers School of Public Health at Rutgers University, and director of the Biometrics Division at the Rutgers Cancer Institute of New Jersey. He is an elected fellow of the American Statistical Association and an elected member of the International Statistical Institute. He served on the advisory board of the U.S. FDA for reviewing new drug applications and was associate editor of professional journals, including *Statistics in Medicine*, *Controlled Clinical Trials*, *Clinical Cancer Research*, *Statistics in Biopharmaceutical Research*, and *Statistics in Bioscience*. His research interests include adaptive designs and missing data issues.

Joseph Aisner, MD, is a professor of medicine and a professor of environmental and occupational medicine at the Robert Wood Johnson Medical School of Rutgers University, director of the Medical Oncology Unit at the Robert Wood Johnson University Hospital, and co-leader of the Clinical Investigations Program at the Rutgers Cancer Institute of New Jersey. He is a fellow of the American College of Physicians and the American Society of Clinical Oncology. He serves on and chairs several National Data Monitoring Committees and has served on the editorial board of multiple journals, including *Journal of Clinical Oncology*, *Cancer Therapeutics*, *Medical Oncology*, *Clinical Cancer Research*, and *Hematology-Oncology Today*. His research interests include cancer clinical trials and evaluation of therapeutic interventions.

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