Book Review:

Analysis of Clinical Trials Using SAS
A Practical Guide

Authors: Alex Dmitrienko,
Geert Molenberghs
Chirsty Chuang-Stein
Walter Offen

Reviewed by:
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Topics covered in this book...

1. Analysis of stratified data
2. Multiple comparisons and multiple endpoints
3. Analysis of safety and diagnostic data
4. Interim data monitoring
5. Analysis of incomplete data
This book bridges the gap between statistical methods and real-world clinical trial applications.

The authors cover the statistical issues that arise in both the design phase and in the analysis and reporting phase of a clinical trial.
Author: Alex Dmitrienko, PhD

- Principal research scientist
- Published papers on multiple testing, group sequential inferences, and analysis of categorical data with clinical trial applications
- Interested in software implementation of new and existing statistical methods
Author: Geert Molenberghs, PhD

- Professor of Biostatistics in Belgium
- Co-authored books and published papers on longitudinal data analysis, mixed models, and incomplete data
- Consultant for the government and several pharmaceutical companies and research institutes
Author: Christy Chuang-Stein, PhD

- Senior Director of the Statistical Research and Consulting Center at Pfizer
- 80+ paper in statistical and medical journals
- 20+ years of experience in pharmaceutical industry
Author: Walter Offen, PhD

- 23 years of experience in clinical trials
- Led a development team that created an analysis system for clinical trials that was based on SAS
- Involved with Pharmaceutical Research and Manufacturers of America
Strengths of the book

- Topics reflect common problems encountered while conducting clinical trials
  - Analysis of stratified data
  - Incomplete data
  - Issues arising in safety and efficacy monitoring
Strengths

- Topics are applicable to a large audience
- Well written
- Step-by-step instructions are provided
- Examples are from actual clinical trials and case studies
- SAS codes along with their descriptions are provided
Weakness

- Extensive use of complex equations
Recommend?

- Clinical statisticians
- Research scientists
- Graduate students in biostatistics and those involved in conducting clinical trials
Learning & Tips

- Analysis of stratified data
- Analysis of incomplete data
Other Books

- Glenn A. Walker - Common Statistical Methods for Clinical Research with SAS Examples
Questions?