Common Statistical Methods for Clinical Research with SAS Examples

Glenn A. Walker
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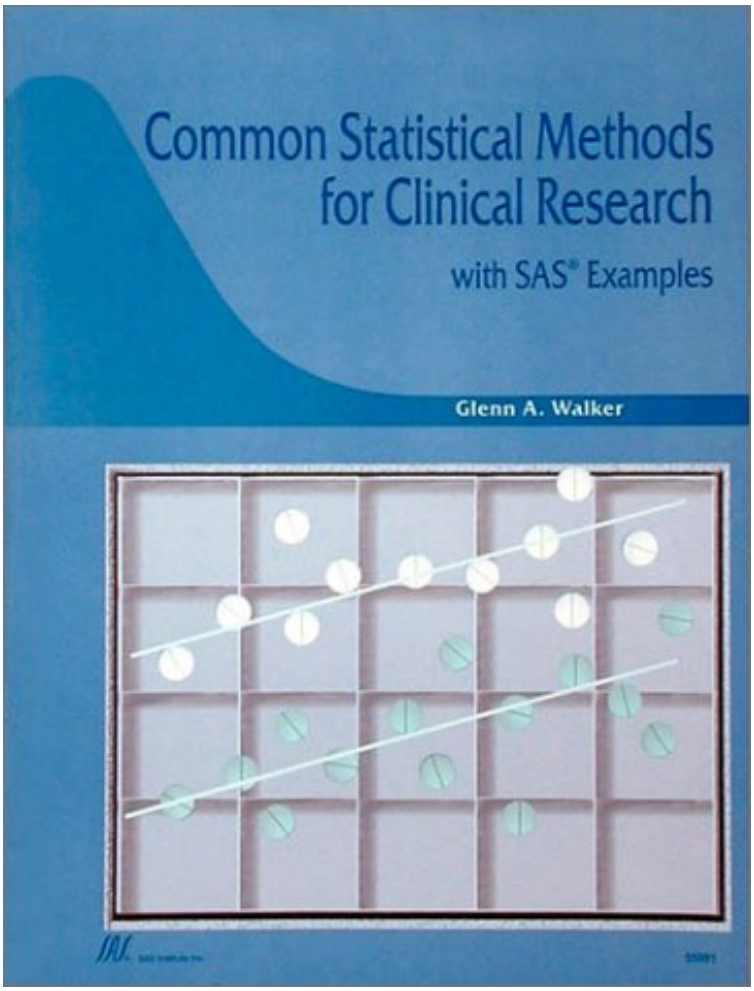

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Glenn A. Walker : Common Statistical Methods for Clinical Research with SAS Examples before purchasing it in order to gage whether or not it would be worth my time, and all praised Common Statistical Methods for Clinical Research with SAS Examples:

0 of 0 people found the following review helpful. OKay textBy M. EdwardsThis is an okay book that has examples of statistical methods in research. It is a good source for learning what methods to use in which situations.2 of 3 people found the following review helpful. A favoriteBy I Teach TypingI have been teaching biostatistics and data management for many years and on the first day of the year I always tell incoming MDs, masters and PhD level students who are not mathematicians to go out immediately and get this book. When they graduate, they frequently spontaneously tell me that it was excellent advice and they tell me the book "saved" them either in class or on their

projects. I have never heard a complaint about this book and that is REALLY unusual with a statistics book.Walker writes short chapters centered around common statistical methods. He gives a clean paragraph or two saying why you would use a statistic. Then he writes-up a little math, with the algebra usually worked out. After that the vast majority of the chapters are completed examples with datasets, code and output. The code and output are annotated with notes and numbered labels so you can quickly figure out what each part output and code means (in clear English).If you get stuck in an overly theoretical statistics class get this book and you will be able to actually do the work you need for biostatistics projects that use SAS.27 of 27 people found the following review helpful. great introduction to biostatistics in context of SAS implementationBy Michael R. ChernickThis book covers all the SAS procedures applicable in clinical trials. It provides excellent examples to illustrate the methodology and the precise way to produce the results in SAS. It also gives the reader a very clear and detailed presentation of the output. It is so good that when we were validating Version 9 of SAS we took some examples from Walker's book that we tried to replicate. We had to keep in mind some minor differences between Version 9 and Verson 6 which is th basis for Walker's examples.

Clinical researchers, with or without a statistical background, will find this book an invaluable aid in understanding the statistical methods cited most frequently in clinical protocols, statistical analysis plans, clinical and statistical reports, and medical journals. Written in a manner which leads the nonstatistician through each test by example, substantive details are presented which will benefit even the experienced data analysts. Introductory chapters provide elementary statistical concepts as applied to clinical trials and an overview of statistical inference, including discussions of power, sample size calculations, p-values and the logic behind hypothesis testing. Numerous examples from clinical research are worked through both manually and using SAS. Methods presented include t-tests, analysis of variance, repeated measures ANOVA, linear regression, analysis of covariance, non-parametric tests, binomial tests, chi-square test, Fisher's exact test, McNemar's test, Cochran-Mantel-Haenszel test, logistic regression, log-rank test, and Cox proportional hazards model. Supports releases 6.08 and higher of SAS software.

This book is an extension and improvement to the excellent first edition appearing in 1996. Each chapter has an introduction covering the specific method and gives examples of where the method is used. The introduction is followed by a synopsis presenting the necessary and significant information for the reader to get a good understanding of the statistical method. Excellent examples are given, including illustrations and followed by the SAS code for the example. Detailed annotations make the SAS output easy to understand. The book also gives numerous extensions for the methods. Dr. Walker has certainly used his many years of consulting experience, his teaching experience with the University of Florida, and his understanding of SAS to produce an even better book, equally understandable and helpful to the novice as well as the seasoned statistician. Each will benefit from this insightful journey into statistics and the use of SAS, whether as a teaching tool or a refresher. I can recommend this book wholeheartedly. --Stephan Ogenstad, Ph.D., Senior Director, Biometrics Vertex Pharmaceuticals, Inc.Are you tasked to use statistical methodology without sufficient statistical training? As part of your work do you interface with statisticians who use jargon that only slightly resembles English? Do you need to perform statistical analyses and present the results of statistical tests using SAS without a clear understanding of the procedures or their output? This book is for you. Although filled with examples relating to the clinical industry, this book provides a much broader reach and is appropriate for any setting that applies statistical methodology. With the second edition of Common Statistical Methods for Clinical Research with SAS Examples Glenn Walker has added almost 100 pages of new information. More importantly he has enhanced its readability for analysts and non-statisticians. The book's organization flows well not only from chapter to chapter but also within each chapter. --Art Carpenter, California Occidental ConsultantsAbout the AuthorGlenn A. Walker Glenn A. Walker is president of Accustat, Inc., a consulting firm providing statistical services to the biopharmaceutical industry. He received his PhD in statistics from the University of Florida where he taught courses as a graduate student in statistics and in SAS software.