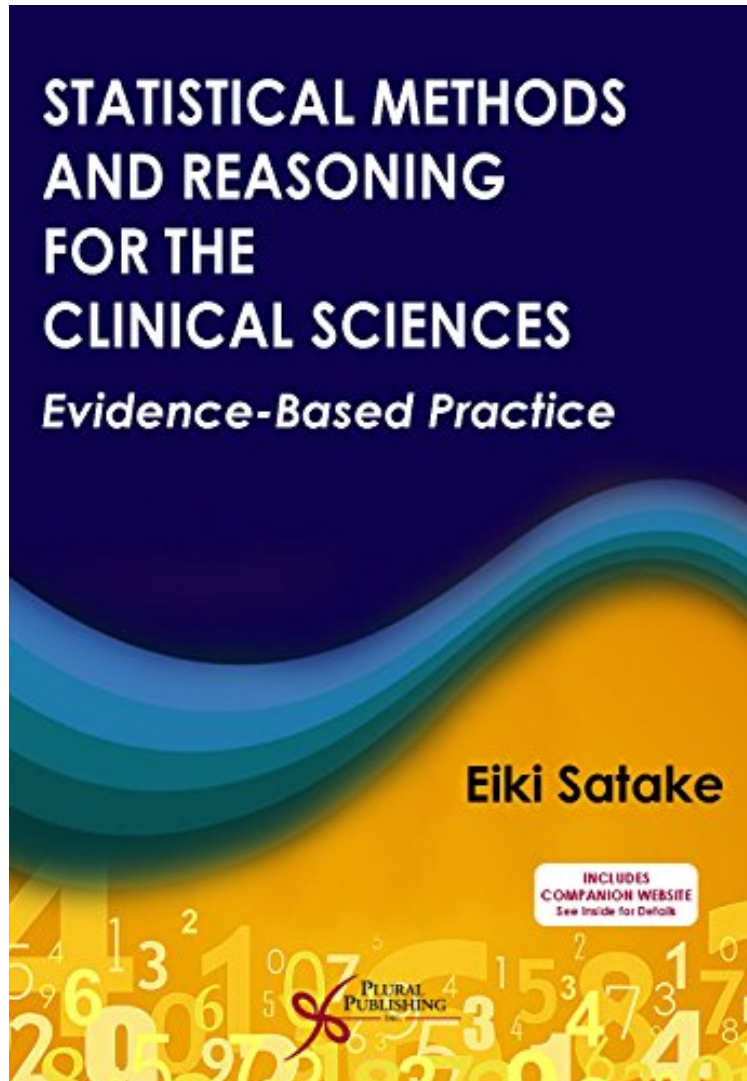


Statistical Methods and Reasoning for the Clinical Sciences: Evidence-Based Practice

Eiki Satake

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used copy of the printed book, the code to access the website printed inside the book may have been previously redeemed/used or be incorrect and you will not be able to use it. To guarantee access to the website, it is recommended you purchase a new copy of this book directly from Amazon or the publisher, Plural Publishing. The growing emphasis on evidence-based practice has increased the importance of using clinical studies for empirical demonstration of the efficacy of clinical interventions. As a result, speech-language pathologists and audiologists must be well-versed in research methods and statistical analysis. In fact, a demonstrated knowledge of statistics (including a stand-alone course in statistics) is a requirement of ASHA certification effective September 1, 2014. *Statistical Methods and Reasoning for the Clinical Sciences* is the ideal textbook to meet the need for a solid understanding of statistics for communication sciences and disorders. The author clearly defines and illustrates the foundational concepts of statistics, including statistical vocabulary, population parameters, sampling methods, and descriptive methods like measures, correlation, and regression. Emphasis is placed on the topic of probability because a firm grasp of the probabilistic approach is essential for any clinician to generate a precise diagnosis. The readers of this textbook will: -Comprehend how clinical research reflects a series of steps that conform with the scientific method of problem solving (observation, hypothesis formation, hypothesis testing, verification, and evaluation) -Appreciate the importance of including rationales in a research study that entail three interrelated tasks: description (why it was done), explanation (what was done and to whom), contextualization (how the results relate to other bodies of knowledge) - Distinguish between statistical significance and clinical significance. -Value the importance of scientific literacy as a major ingredient of evidence practice -With its comprehensive scope and timely content *Statistical Methods and Reasoning for the Clinical Sciences* is the ideal text for students of communication sciences and disorders who wish to engage in truly evidence-based practice.

"The material is presented in the best style and depth, and is written in the most clear, explanatory way that I have ever seen in 30 years in this field. Dr. Satake provides the first truly excellent text in the area. Bravo!" --Amir Aczel, PhD, Research Fellow at the Boston University Center for Philosophy and History of Science "The book is designed primarily for readers without a statistical background who would like to grasp the important aspects of statistics required for the appropriate interpretation of medical literature. The author has contributed to many statistics books...Each chapter ends with multiple-choice questions which serve as feedback and reinforcement. Some statistical processes, such as the organization of data into graphs and the calculation of simple statistical measures, etc., are explained in a stepwise fashion which is very helpful for beginners. This is an excellent resource for the proper understanding and interpretation of basic statistical concepts used in the medical literature from the perspective of evidence-based practice." --Pooja Sethi, MD, Doody's Service About the Author Eiki Satake, PhD, is an associate professor of mathematics and statistics at Emerson College in Boston, Massachusetts. He has written numerous scholastic articles and instructional textbooks on statistical methods and statistics education. He has also conducted several research seminars and short courses on evidence-based statistics at national and international academic conferences. His research interests include Bayesian statistical methods and probabilistic approaches to evidence-based practice.