

# BASIC STATISTICS AND PHARMACEUTICAL STATISTICAL APPLICATIONS

Second Edition



James E. De Muth

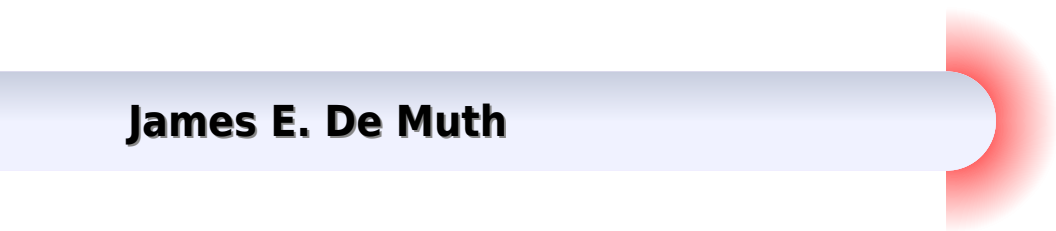


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# Basic Statistics And Pharmaceutical Statistical Applications Second Edition Pharmacy Education Series

**James E. De Muth**



## **Basic Statistics And Pharmaceutical Statistical Applications Second Edition Pharmacy Education Series:**

Basic Statistics and Pharmaceutical Statistical Applications, Third Edition James E. De Muth, 2014-04-28 Building on its best selling predecessors Basic Statistics and Pharmaceutical Statistical Applications Third Edition covers statistical topics most relevant to those in the pharmaceutical industry and pharmacy practice It focuses on the fundamentals required to understand descriptive and inferential statistics for problem solving Incorporating new material in virtually every chapter this third edition now provides information on software applications to assist with evaluating data New to the Third Edition Use of Excel and Minitab for performing statistical analysis Discussions of nonprobability sampling procedures determining if data is normally distributed evaluation of covariances and testing for precision equivalence Expanded sections on regression analysis chi square tests tests for trends with ordinal data and tests related to survival statistics Additional nonparametric procedures including the one sided sign test Wilcoxon signed ranks test and Mood's median test With the help of flow charts and tables the author dispels some of the anxiety associated with using basic statistical tests in the pharmacy profession and helps readers correctly interpret their results using statistical software Through the text's worked out examples readers better understand how the mathematics works the logic behind many of the equations and the tests outcomes

*Basic Statistics and Pharmaceutical Statistical Applications, Second Edition* James E. De Muth, 2006-05-10 The first edition of Basic Statistics and Pharmaceutical Statistical Applications successfully provided a practical easy to read basic statistics book This second edition not only updates the previous edition but expands coverage in the area of biostatistics and how it relates to real world professional practice Taking you on a roller coaster ride through the world of statistics Dr De Muth clearly details the methodology necessary to summarize data and make informed decisions about observed outcomes What's new or different in the Second Edition New chapters cover Measures of association primarily with nominal and ordinal data and more than 15 tests Survival statistics including actuarial analysis and an introduction to multiple regression with survival data using proportional hazards regression An introduction to the topic of evidence based practice with discussions of sensitivity and specificity predictive values and likelihood ratios Odds ratios and relative risk ratios that provide valuable information for dealing with probability odds and risk New sections address Power and sample size determination for two sample Z tests of proportions Clinical equivalence and noninferiority studies process capability and tolerance limits Methods for assessing repeatability and reproducibility Expanded information includes Chi square repeated measures designs Latin Square designs nine multiple comparison tests and outlier testing Inverse prediction with linear regression handling of multiple data points at different levels of independent variable and assessment of parallelism of slopes for two samples Additional types of bivariate correlations and various assessments for independence and randomness More nonparametric tests including new information on post hoc comparisons for a significant Kruskal Wallis test the Kolmogorov Smirnov goodness of fit test and the Anderson Darling test as well as runs and range tests Eight new tables useful for the

interpretation of some of the new inferential statistics De Muth provides concrete examples that enable you to effectively manage information in your day to day problem solving and reporting of findings By avoiding heavy duty mathematics and theory even the mathematically challenged can benefit and increase their confidence in using statistics procedures

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This updated resource is geared toward meeting and incorporating the current curricular guidelines on pharmaceuticals and laboratory skills mandated by the American Council for Pharmacy Education. It includes a number of student friendly features including chapter objectives and summaries, practical examples, case studies, numerous images and key concept text boxes. Two new chapters are included as well as a new end of chapter section covering critical reflections and practice applications. Divided into three sections: Physical Principles and Properties of Pharmaceuticals, Practical Aspects of Pharmaceuticals and Biological Applications of Pharmaceuticals, this new edition covers all aspects of pharmaceuticals and providing a single and compelling source for students. Facilitates an integrated and extensive coverage of the study of pharmaceuticals due to the clear and engaging language used by the authors. Includes chapter objectives and summaries to illustrate and reinforce key ideas. Meets curricular guidelines for pharmaceuticals and laboratory skills mandated by the Accreditation Council for Pharmacy Education (ACPE). Includes new practice questions, answers and case studies for experiential learning.

**A Basic Booklist and Core Journals for Pharmaceutical Education** Patricia A. Piermatti, Barbara M. Hill, 1986 *Drug Utilization Research* Monique Elseviers, Björn Wettermark, Tanja Mueller, Ria Benko, Marion Bennie, Katarina Gvozdanovic, Mikael Hoffmann, Irina Iaru, Verica Ivanovska, Sean MacBride-Stewart, Elisabetta Poluzzi, Lisa Pont, Hege Salvesen Blix, Gabriel Sanfelix-Gimeno, Gisbert Selke, Katja Taxis, Ana Tomas Petrovic, Indre Treciokiene, Sabine Vogler, 2024-08-12

Towards a better understanding of how medicines are used in society. Drug Utilization Research (DUR) is a discipline which combines aspects of pharmacotherapy, epidemiology and health services research into an interdisciplinary set of methods for analyzing and assessing the prescribing, dispensing and consumption of medicines. It combines both qualitative and quantitative approaches to facilitate the safe and effective use of pharmaceuticals. Drug Utilization Research: Methods and Applications provides a comprehensive introduction to this discipline, prepared by an international team of authors with broad experience in numerous fields. Now reorganized and updated to reflect the latest research and global challenges, it is an indispensable resource for understanding the use of pharmaceuticals. Readers of the second edition of Drug Utilization Research will find new chapters on methods, including more hands-on guidance on how to plan and conduct different types of drug utilization. A section on specific applications in areas such as psychotropics, opioids, cancer drugs, antibacterials and cardiovascular drugs. A new section with case studies illustrating applications of DUR in different continents. Detailed treatment of subjects including DUR and health policy, DUR in specific populations and many more. Drug Utilization Research is ideal for epidemiologists, pharmacists, physicians, nurses and others interested in drug use and its outcomes.

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