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8.5, 8.7-8.11, 9.1-9.5: 5: Comparing Means Among Two (or More) Independent Populations : Practical Statistics for Medical Research, Douglas Altman. Sections: 9.6-9.11 (Skip 9.9) 6: Comparing Proportions Between Two Independent Populations

Statistical Reasoning I : Readings - JHSPH OCW

Centre for Statistics in Medicine, University of Oxford - Cited by 575,784 - biostatistics - statistics - medical statistics ... Practical statistics for medical research. DG Altman. CRC press, 1990. 21951: 1990:

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some background in statistics as undergraduates. However, it is most often brief, a long time ago, and largely forgotten by the time it is needed. Furthermore, many introductory texts fall short of adequately explaining the underlying concepts of statistics, and often are divorced

Most medical researchers, whether clinical or non-clinical, receive some background in statistics as undergraduates. However, it is most often brief, a long time ago, and largely forgotten by the time it is needed. Furthermore, many introductory texts fall short of adequately explaining the underlying concepts of statistics, and often are divorced from the reality of conducting and assessing medical research. Practical Statistics for Medical Research is a problem-based text for medical researchers, medical students, and others in the medical arena who need to use statistics but have no specialized mathematics background.

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Nursing is a growing area of higher education, in which an introduction to statistics is an essential component. There is currently a gap in the market for a 'user-friendly' book which is contextualised and targeted for nursing. Practical Statistics for Nursing and Health Care introduces statistical techniques in such a way that readers will easily grasp the fundamentals to enable them to gain the confidence and understanding to perform their own analysis. It also provides sufficient advice in areas such as clinical trials and epidemiology to enable the reader to critically appraise work published in journals such as the Lancet and British Medical Journal. * Covers all basic statistical concepts and tests * Is user-friendly - avoids excessive jargon *

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Includes relevant examples for nurses, including case studies and data sets * Provides information on further reading * Starts from first principles and progresses step by step * Includes 'advice on' sections for all of the tests described

This straightforward primer in basic statistics emphasises its practical use in epidemiology and public health, providing an understanding of essential topics such as study design, data analysis and statistical methods used in the execution of medical research.

Evidence-based medicine aims to apply the best available evidence gained from the scientific method to medical decision making. It is a practice that uses statistical analysis of scientific methods and outcomes to drive further experimentation and diagnosis. The profusion of

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evidence-based medicine in medical practice and clinical research has produced a need for life scientists and clinical researchers to assimilate biostatistics into their work to meet efficacy and practical standards. Practical Biostatistics provides researchers, medical professionals, and students with a friendly, practical guide to biostatistics. With a detailed outline of implementation steps complemented by a review of important topics, this book can be used as a quick reference or a hands-on guide to effectively incorporate biostatistics in clinical trials. Customized presentation for biological investigators with examples taken from current clinical trials in multiple disciplines Clear and concise definitions and examples provide a pragmatic guide to bring clarity to the applications of statistics in improving human health Addresses the challenge of assimilation of mathematical concepts to better interpret literature, to build stronger studies, to present research

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effectively, and to improve communication with supporting biostatisticians

Clinical trials have become essential research tools for evaluating the benefits and risks of new interventions for the treatment and prevention of diseases, from cardiovascular disease to cancer to AIDS. Based on the authors' collective experiences in this field, *Introduction to Statistical Methods for Clinical Trials* presents various statistical topics relevant to the design, monitoring, and analysis of a clinical trial. After reviewing the history, ethics, protocol, and regulatory issues of clinical trials, the book provides guidelines for formulating primary and secondary questions and translating clinical

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questions into statistical ones. It examines designs used in clinical trials, presents methods for determining sample size, and introduces constrained randomization procedures. The authors also discuss how various types of data must be collected to answer key questions in a trial. In addition, they explore common analysis methods, describe statistical methods that determine what an emerging trend represents, and present issues that arise in the analysis of data. The book concludes with suggestions for reporting trial results that are consistent with universal guidelines recommended by medical journals. Developed from a course taught at the University of Wisconsin for the past 25 years, this textbook provides a solid understanding of the statistical approaches used in the design, conduct, and analysis of clinical trials.

Provides an excellent introductory text for students on the principles

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and methods of statistical analysis in the life sciences, helping them choose and analyse statistical tests for their own problems and present their findings. An understanding of statistical principles and methods is essential for any scientist but is particularly important for those in the life sciences. The field biologist faces very particular problems and challenges with statistics as "real-life" situations such as collecting insects with a sweep net or counting seagulls on a cliff face can hardly be expected to be as reliable or controllable as a laboratory-based experiment. Acknowledging the peculiarities of field-based data and its interpretation, this book provides a superb introduction to statistical analysis helping students relate to their particular and often diverse data with confidence and ease. To enhance the usefulness of this book, the new edition incorporates the more advanced method of multivariate analysis, introducing the nature of multivariate problems and

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describing the the techniques of principal components analysis, cluster analysis and discriminant analysis which are all applied to biological examples. An appendix detailing the statistical computing packages available has also been included. It will be extremely useful to undergraduates studying ecology, biology, and earth and environmental sciences and of interest to postgraduates who are not familiar with the application of multiivariate techniques and practising field biologists working in these areas.

Uses practical examples to teach laboratory scientists and research clinicians how to accomplish statistical tasks confidently.

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