

Essentials Of Statistics In Health Information Technology 1st Edition

From the author of Statistical Applications for Health Information Management, this text provides a solid foundation of the fundamentals of statistics in health information technology in an accessible and reader-friendly format. A single case study is woven throughout the book to serve as an example for each statistical process covered. Attention is given to morbidity and mortality measures, graphical display of data, measurement, central tendency and variability, normal distribution and statistical inference, and inferential statistics. Written specifically for health information technology students who need a basic understanding of the topic, this text is ideal for those with a modest background in mathematics and no prior training in statistics. Features: • Introduces students to how statistical techniques can be used to describe and make inferences from healthcare data. • Includes traditional hospital statistics such as average length of stay and total inpatient service days. • Uses examples in both SPSS and Microsoft Excel.

The must-have statistics guide for students of health services Statistics for Health Care Management and Administration is a unique and invaluable resource for students of health care administration and public health. The book introduces students to statistics within the context of health care, focusing on the major data and analysis techniques used in the field. All hands-on instruction makes use of Excel, the most common spreadsheet software that is ubiquitous in the workplace. This new third edition has been completely retooled, with new content on proportions, ANOVA, linear regression, chi-squares, and more, Step-by-step instructions in the latest version of Excel and numerous annotated screen shots make examples easy to follow and understand. Familiarity with statistical methods is essential for health services professionals and researchers, who must understand how to acquire, handle, and analyze data. This book not only helps students develop the necessary data analysis skills, but it also boosts familiarity with important software that employers will be looking for. Learn the basics of statistics in the context of Excel Understand how to acquire data and display it for analysis Master various tests including probability, regression, and more Turn test results into usable information with proper analysis Statistics for Health Care Management and Administration gets students off to a great start by introducing statistics in the workplace context from the very beginning.

Master the essential statistical skills used in social andbehavioral sciences Essentials of Statistics for the Social and Behavioral Sciencesdistills the overwhelming amount of material covered inintroductory statistics courses into a handy, practical resourcefor students and professionals. This accessible guide covers basicso advanced concepts in a clear, concrete, and readablestyle. Essentials of Statistics for the Social and Behavioral Sciencesguides you to a better understanding of basic concepts ofstatistical methods. Numerous practical tips are presented forselecting appropriate statistical procedures. In addition, thisuseful guide demonstrates how to evaluate and interpret statisticaldata, provides numerous formulas for calculating statistics fromtables of summary statistics, and offers a variety of workedexamples. As part of the Essentials of Behavioral Science series, this bookoffers a thorough review of the most relevant statistical conceptsand techniques that will arm you with the tools you'll need tobecome knowledgeable, informed practice. Each concise chapter featuresnumerous callout boxes highlighting key concepts, bulleted points,and extensive illustrative material, as well as "Test Yourself"questions that help you gauge and reinforce your grasp of the information covered.

The 5th edition of this popular introduction to statistics for the medical and health sciences has undergone a significant revision, with several new chapters added and examples refreshed throughout the book. Yet it retains its central philosophy to explain medical statistics with as little technical detail as possible, making it accessible to a wide audience. Helpful multi-choice exercises are included at the end of each chapter, with answers provided at the end of the book. Each analysis technique is carefully explained and the mathematics kept to a minimum. Written in a style suitable for statisticians and clinicians alike, this edition features many real and original examples, taken from the authors' combined many years' experience of designing and analysing clinical trials and teaching statistics. Students of the health sciences, such as medicine, nursing, dentistry, physiotherapy, occupational therapy, and radiography should find the book useful, with examples relevant to their disciplines. The aim of training courses in medical statistics pertinent to these areas is not to turn the students into medical statisticians but rather to help them interpret the published scientific literature and appreciate how to design studies and analyse data arising from their own projects. However, the reader who is about to design their own study and collect, analyse and report on their own data will benefit from a clearly written book on the subject which provides practical guidance to such issues. The practical guidance provided by this book will be of use to professionals working in and/or managing clinical trials, in academic, public health, government and industry settings, particularly medical statisticians, clinicians, trial co-ordinators. Its practical approach will appeal to applied statisticians and biomedical researchers, in particular those in the biopharmaceutical industry, medical and public health organisations.

Medical Statistics

Medical Statistics Made Easy

ESSENTIALS OF BIostatISTICS

A Statistical Guide to Clinical Practice

Essentials of Statistics for the Social and Behavioral Sciences

Designed to teach Health, Physical Education, Exercise Science, and Recreation students how to be consumers of research in their fields, this text is ideal for upper level and graduate level research courses in Exercise Science, Kinesiology, and Physical Education. New to the Second Edition are expanded statistics problems and data sets, additional statistics and application examples, and computer applications for data analysis. Key concepts are highlighted, and unique and humorous cartoons are used to help illustrate selected points.

Correctly understanding and using medical statistics is a key skill for all medical students and health professionals. In an informal and friendly style, Medical Statistics from Scratch provides a practical foundation for everyone whose first interest is probably not medical statistics. Keeping the level of mathematics to a minimum, it clearly illustrates statistical concepts and practice with numerous real-world examples and cases drawn from current medical literature. Medical Statistics from Scratch is an ideal learning partner for all medical students and health professionals needing an accessible introduction, or a friendly refresher, to the fundamentals of medical statistics.

You are bombarded with statistical data each and every day, and healthcare professionals are no exception. All sectors of healthcare rely on data provided by insurance companies, consultants, research firms, and government to help them make a host of decisions regarding the delivery of medical services. But while these health professionals rely on data, do they really make the best use of the information? Not if they fail to understand whether the assumptions behind the formulas generating the numbers make sense. Not if they don't understand that the world of healthcare is flooded with inaccurate, misleading, and often dangerous statistics. Statistical Analysis for Decision Makers in Healthcare: Understanding and Evaluating Critical Information in a Competitive Market, Second Edition explains the fundamental concepts of statistics, as well as their common uses and misuses. Without jargon or mathematical formulas, nationally renowned healthcare expert and author, Jeff Bauer, presents a clear verbal and visual explanation of what statistics really do. He provides a practical discussion of scientific methods and data to show why statistics should never be allowed to compensate for bad science or bad data. Relying on real-world examples, Dr. Bauer stresses a conceptual understanding that empowers readers to apply a scientifically rigorous approach to the evaluation of data. With the tools he supplies, you will learn how to dismantle statistical evidence that goes against common sense. Easy to understand, practical, and even entertaining, this is the book you wish you had when you took statistics in college – and the one you are now glad to have to defend yourself against the abundance of bad studies and misinformation that might otherwise corrupt your decisions.

This singular text provides nursing students as well as students in all other health-related disciplines with a solid foundation for understanding data and specific statistical techniques. In this newest edition, outstanding faculty contributors focus on the most current and most frequently used statistical methods in today's health care literature, covering essential material for a variety of program levels including in-depth courses beyond the basic statistics course. Well-organized and clear text discussions and great learning tools help you cut through the complexities and fully comprehend the concepts of this often intimidating area of study. Book jacket.

Essentials of Applied Quantitative Methods for Health Services Management shows students how to use statistics in all aspects of health care administration. Offering careful, step-by-step instructions for calculations using Microsoft Excel, this hands-on resource begins with basic foundational competencies in statistics, and then walks the reader through forecasting, designing and analyzing systems, and project analysis. The text stresses the application of concepts, models, and techniques and provides problems involving all of the methods. It is intended to build a student management and planning tools repertoire. Ideal for junior and seniors in baccalaureate level health administration programs as well as first year graduate students in non-MBA health administration programs, this book requires limited previous knowledge of statistics; its mathematical dimension is equal to basic high school algebra.

As health care and public health continue to evolve, the field of Health Information Systems (HIS) has revealed an overwhelming universe of new, emerging, competing, and conflicting technologies and services. Even seasoned HIS professionals, as well as those new to the field, are often confounded by these myriad systems. Essentials of Health Information Systems and Technology unravels the mysteries of HIS by breaking these technologies down to their component parts, while articulating intricate concepts clearly and carefully in simple, reader-friendly language. The book provides a thorough yet unintimidating introduction to this complex and fascinating field. This book will provide undergraduate and early graduate students with a solid understanding not only of what is needed for a successful healthcare career in HIS, but also of the vast frontier that lies before us as we develop new tools to support improved methods of care, analytics, policy, research, and public health.

Contents Include: • HIS overview • Systems and management • Biomedical Informatics • Data and analytics • Research, policy, and public health • Future directions of HIS

Essential Statistical Methods for Medical Statistics

Essentials of Biostatistics in Public Health

Statistics for Health Care Management and Administration

Fundamentals of Statistics in Health Administration

Essentials of Planning and Evaluation for Public Health

This long awaited second edition of this bestseller continues to provide a comprehensive, user friendly, down-to-earth guide to elementary statistics. The book presents a detailed account of the most important procedures for the analysis of data, from the calculation of simple proportions, to a variety of statistical tests, and the use of regression models for modeling of clinical outcomes. The level of mathematics is kept to a minimum to make the material easily accessible to the novice, and a multitude of illustrative cases are included in every chapter, drawn from the current research literature. The new edition has been completely revised and updated and includes new chapters on basic quantitative methods, measuring survival, measurement scales, diagnostic testing, bayesian methods, meta-analysis and systematic reviews. ". After years of trying and failing, this is the only book on statistics that I have managed to read and understand" - Naveed Kirmani, Surgical Registrar, South London Healthcare HHS Trust, UK

Statistical Methods for Health Services Management presents only key contributions which have been selected from the volume in the Handbook of Statistics: Medical Statistics, Volume 27 (2009). While the use of statistics in these fields has a long and rich history, the explosive growth of science in general, and of clinical and epidemiological sciences in particular, has led to the development of new methods and innovative adaptations of standard methods. This volume is appropriately focused for individuals working in these fields. Contributors are internationally renowned experts in their respective areas. Contributors are internationally renowned experts in their respective areas. Addresses emerging statistical challenges in epidemiological, biomedical, and pharmaceutical research. Methods for assessing Biomarkers, analysis of competing risks. Clinical trials including sequential and group sequential, crossover designs, cluster randomized, and adaptive designs. Structural equations modeling and longitudinal data analysis

The aim of this book is to equip biostatisticians and other quantitative scientists with the necessary skills, knowledge, and habits to collaborate effectively with clinicians in the healthcare field. The book provides valuable insight on where to look for information and material on sample size and statistical techniques commonly used in clinical research, and on how best to communicate with clinicians. It also covers the best practices to adopt in terms of project, time, and data management; relationship with collaborators; etc.

Successfully tested in the authors' courses at Boston University and Harvard University, this text combines theory and practice in presenting traditional and new epidemiologic concepts. Broad in scope, the text opens with five chapters covering the basic epidemiologic concepts and data sources. A major emphasis is placed on study design, with separate chapters devoted to each of the three main analytic designs: experimental, cohort, and case-control studies. Full chapters on bias, confounding, and random error, including the role of statistics in epidemiology, ensure that students are well-equipped with the necessary information to interpret the results of epidemiologic studies. An entire chapter is also devoted to the concept of effect measure modification, an often-neglected topic in introductory textbooks. Up-to-date examples from the epidemiological literature on diseases of public health importance are provided throughout the book. The Third Edition is a thorough update that offers: New examples, the latest references, and public health statistics. Nearly 50 new review questions. Updated discussion of certain epidemiologic methods. New figures depicting epidemiologic concepts.*

Medical Statistics from Scratch

A Foundation for Analysis in the Health Sciences

Essentials of Biostatistics Workbook

A Textbook for the Health Sciences

Essentials of Applied Quantitative Methods for Health Services

Blackwell Publishing is delighted to announce that this book has been Highly Commended in the 2004 BMA Medical Book Competition.Here is the judges' summary of this book: *"This is a technical book on a technical subject but presented in a delightful way. There are many books on statistics for doctors but there are few that are excellent and this is certainly one of them. Statistics is not an easy subject to teach or write about. The authors have succeeded in producing a book that is as good as it can get. For the keen student who does not want a book for mathematicians, this is an excellent first book on medical statistics."* **Essential Medical Statistics is a classic amongst medical statisticians. An introductory textbook, it presents statistics with a clarity and logic that demystifies the subject, while providing a comprehensive coverage of advanced as well as basic methods. The second edition of Essential Medical Statistics has been comprehensively revised and updated to include modern statistical methods and modern approaches to statistical analysis, while retaining the approachable and non-mathematical style of the first edition. The book now includes full coverage of the most commonly used regression models, multiple linear regression, logistic regression, Poisson regression and Cox regression, as well as a chapter on general issues in regression modelling. In addition, new chapters introduce more advanced topics such as meta-analysis, likelihood, bootstrapping and robust standard errors, and analysis of clustered data. Aimed at students of medical statistics, medical researchers, public health practitioners and practising clinicians using statistics in their daily work, the book is designed as both a teaching and a reference text. The format of the book is clear with highlighted formulae and worked examples, so that all concepts are presented in a simple, practical and easy-to-understand way. This second edition enhances the emphasis on choice of appropriate methods with new chapters on strategies for analysis and measures of association and impact. Essential Medical Statistics is supported by a web site www.blackwellpublishing.com/essentialmedstats. This useful online resource provides statistical datasets to download, as well as sample chapters and future updates.**

Now in its Fourth Edition, An Introduction to Medical Statistics continues to be a "must-have" textbook for anyone who needs a clear logical guide to the subject. Written in an easy-to-understand style and packed with real life examples, the text clearly explains the statistical principles used in the medical literature. Taking readers through the common statistical methods seen in published research and guidelines, the text focuses on how to interpret and analyse statistics for clinical practice. Using extracts from real studies, the author illustrates how data can be employed correctly and incorrectly in medical research helping readers to evaluate the statistics they encounter and appropriately implement findings in clinical practice. End of chapter exercises, case studies and multiple choice questions help readers to apply their learning and develop their own interpretative skills. This thoroughly revised edition includes new chapters on meta-analysis, missing data, and survival analysis.

Basic Statistical Techniques for Medical and Other Professionals

Statistical Applications for Health Information Management

Fundamentals of Biostatistics

Essentials of Rehabilitation Research

Essential Medical Statistics

The ability to analyze and interpret enormous amounts of data has become a prerequisite for success in allied healthcare and the health sciences. Now in its 11th edition, *Biostatistics: A Foundation for Analysis in the Health Sciences* continues to offer in-depth guidance toward biostatistical concepts, techniques, and practical applications in the modern healthcare setting. Comprehensive in scope yet detailed in coverage, this text helps students understand—and appropriately use—probability distributions, sampling distributions, estimation, hypothesis testing, variance analysis, regression, correlation analysis, and other statistical tools fundamental to the science and practice of medicine. Clearly-defined pedagogical tools help students stay up-to-date on new material, and an emphasis on statistical software allows faster, more accurate calculation while putting the focus on the underlying concepts rather than the math. Students develop highly relevant skills in inferential and differential statistical techniques, equipping them with the ability to organize, summarize, and interpret large bodies of data. Suitable for both graduate and advanced undergraduate coursework, this text retains the rigor required for use as a professional reference.

Bernard Rosner's **FUNDAMENTALS OF BIostatISTICS** is a practical introduction to the methods, techniques, and computation of statistics with human subjects. It prepares students for their future courses and careers by introducing the statistical methods most often used in medical literature. Rosner minimizes the amount of mathematical formulation (algebra-based) while still giving complete explanations of all the important concepts. As in previous editions, a major strength of this book is that every new concept is developed systematically through completely worked out examples from current medical research problems. Most methods are illustrated with specific instructions as to implementation using software either from SAS, Stata, R, Excel or Minitab. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

There is a vast need for statistical analysis and applications in health care administration. However, students typically have weak quantitative skills. Yet students typically come armed with weak quantitative skills and a poor understanding of statistics. Statistics are a key element of many health administration courses – financial management, quantitative methods etc. but texts in this area presume skills in this area often leaving students adrift. *Statistics in Health Administration Kept Simple* covers essential fundamentals in a user-friendly way with a strong emphasis on practical applica

It is not necessary to know how to do a statistical analysis to critically appraise a paper. However, it is necessary to have a grasp of the basics, of whether the right test has been used and how to interpret the resulting figures. Short, readable, and useful, this book provides the essential, basic information without becoming bogged down in the

Essential Public Health

Essentials of a Successful Biostatistical Collaboration

Essentials of Statistics

The Essentials of Biostatistics for Physicians, Nurses, and Clinicians

Essentials of Statistics for the Behavioral Sciences

Filled with cases and examples from across the spectrum of Public Health specialties, Essentials of Planning and Evaluation for Public Health provides a basic understanding of the importance of and the key approaches used to conduct and evaluate effective public health programs. Organized in a step-by-step process, the chapters provide an accessible and engaging overview of topics needed to review published literature, collect primary data, analyze data using basic statistics, and present results in written or verbal formats for their intended audiences. Examples and case studies are woven throughout, from a broad array of public health applications such as global health, environmental health, community health, and social science. Key Features: Offers a clear, easy-to-read foundational overview of the process of Public Health program evaluation Includes an easy explication of basic statistics using Microsoft Excel Uses many examples and cases specific to field of Public Health Authored by an award-winning Professor in undergraduate public health studies Instructor Resources: Instructor's Manual, PowerPoint slides, TestBank

This new edition of the book will be produced in two versions. The textbook will include a CD-Rom with two videotaped lectures by the authors. This book translates biostatistics in the health sciences literature with clarity and irreverence. Students and practitioners alike, applaud Biostatistics as the practical guide that exposes them to every statistical test they may encounter, with careful conceptual explanations and a minimum of algebra. What's New? The new Bare Essentials recent advances in statistics, as well as time-honored methods. For example, "hierarchical linear modeling" which first appeared in psychology journals and only now is described in medical literature. Also new, is a chapter on testing for equivalence and non-inferiority. As well as a chapter with information to get started with the computer statistics program, SPSS. Free of calculations and jargon, Bare Essentials speaks so plainly that you won't need a technical dictionary. No math, concepts. The objective is to enable you to determine if the research results are applicable to your own patients. Throughout the guide, you'll find highlights of areas in which researchers misuse or misinterpret statistical tests. We have labeled these "C.R.A.P. Detectors" (Convoluted Reasoning and Anti-Intellectual Pomposity), which help you to identify faulty methodology and misuse of statistics.

Enhance your clinical practice and your understanding of rehabilitation literature through applied statistics! Step-by-step, this interactive learning experience makes clinically relevant statistical procedures easier to understand, organize, interpret, and use when evaluating patients and the effectiveness of your practice. Only statistical procedures with direct clinical application have been selected to guide you through patient assessments, selecting the best tools for your practice, enhancing your understanding of predicting prognosis and responders to treatment, and outlining a method to critique clinical practice guidelines. With this reader-friendly, real-world approach you'll be able to meet the need for evidence to support your practice, gain a deeper understanding of clinical research, and systematically evaluate patient outcomes.

Essentials of Statistics raises the bar with every edition by incorporating an unprecedented amount of real and interesting data that will help instructors connect with students today, and help them connect statistics to their daily lives. The 5th Edition contains more than 1,585 exercises, 89% of which use real data and 86% of which are new. Hundreds of examples are included, 92% of which use real data and 85% of which are new.

Understanding and Evaluating Critical Information in Changing Times

FOR UNDERGRADUATE, POSTGRADUATE STUDENTS OF MEDICAL SCIENCE, BIOMEDICAL SCIENCE AND RESEARCHERS

Practical Statistics for Medical Research

A Guide for Healthcare Professionals

Biostatistics

Americans are bombarded with statistical data each and every day, and healthcare professionals are no exception. All segments of healthcare rely on data provided by insurance companies, consultants, research firms, and the federal government to help them make a host of decisions regarding the delivery of medical services. But while these health professionals rely on data, do they really make the best use of the information? Not if they fail to understand whether the assumptions behind the formulas generating the numbers make sense. Not if they don't understand that the world of healthcare is flooded with inaccurate, misleading, and even dangerous statistics. Statistical Analysis for Decision Makers in Healthcare: Understanding and Evaluating Critical Information in a Competitive Market, Second Edition explains the fundamental concepts of statistics, as well as their common uses and misuses. Without jargon or mathematical formulas, nationally renowned healthcare expert and author, Jeff Bauer, presents a clear verbal and visual explanation of what statistics really do. He provides a practical discussion of scientific methods and data to show why statistics should never be allowed to compensate for bad science or bad data. Relying on real-world examples, Dr. Bauer stresses a conceptual understanding that empowers readers to apply a scientifically rigorous approach to the evaluation of data. With the tools he supplies, you will learn how to dismantle statistical evidence that goes against common sense. Easy to understand, practical, and even entertaining, this is the book you wish you had when you took statistics in college – and the one you are now glad to have to defend yourself against the abundance of bad studies and misinformation that might otherwise corrupt your decisions.

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Contents Include: • HIS overview • Systems and management • Biomedical Informatics • Data and analytics • Research, policy, and public health • Future directions of HIS

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Blackwell Publishing is delighted to announce that this book has been Highly Commended in the 2004 BMA Medical Book Competition.Here is the judges' summary of this book: *"This is a technical book on a technical subject but presented in a delightful way. There are many books on statistics for doctors but there are few that are excellent and this is certainly one of them. Statistics is not an easy subject to teach or write about. The authors have succeeded in producing a book that is as good as it can get. For the keen student who does not want a book for mathematicians, this is an excellent first book on medical statistics."* **Essential Medical Statistics is a classic amongst medical statisticians. An introductory textbook, it presents statistics with a clarity and logic that demystifies the subject, while providing a comprehensive coverage of advanced as well as basic methods. The second edition of Essential Medical Statistics has been comprehensively revised and updated to include modern statistical methods and modern approaches to statistical analysis, while retaining the approachable and non-mathematical style of the first edition. The book now includes full coverage of the most commonly used regression models, multiple linear regression, logistic regression, Poisson regression and Cox regression, as well as a chapter on general issues in regression modelling. In addition, new chapters introduce more advanced topics such as meta-analysis, likelihood, bootstrapping and robust standard errors, and analysis of clustered data. Aimed at students of medical statistics, medical researchers, public health practitioners and practising clinicians using statistics in their daily work, the book is designed as both a teaching and a reference text. The format of the book is clear with highlighted formulae and worked examples, so that all concepts are presented in a simple, practical and easy-to-understand way. This second edition enhances the emphasis on choice of appropriate methods with new chapters on strategies for analysis and measures of association and impact. Essential Medical Statistics is supported by a web site www.blackwellpublishing.com/essentialmedstats. This useful online resource provides statistical datasets to download, as well as sample chapters and future updates.**

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