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Holistic approach to understanding medical statistics This hands-on guide is much more than a basic medical statistics introduction. It equips you with the statistical tools required for evidence-based clinical research. Each chapter provides a clear step-by-step guide to each statistical test with practical instructions on how to generate and interpret the numbers, and present the results as scientific tables or graphs. Showing you how to: analyse data with the help of data set examples (Click here to download datasets) select the correct statistics and report results for publication or presenta-

tion understand and critically appraise results reported in the literature Each statistical test is linked to the research question and the type of study design used. There are also checklists for critically appraising the literature and web links to useful internet sites. Clear and concise explanations, combined with plenty of examples and tabulated explanations are based on the authors' popular medical statistics courses. Critical appraisal guidelines at the end of each chapter help the reader evaluate the statistical data in their particular contexts. Contains all you need to know to understand statistics in medicine. Medical Statistics Made Easy has been a perennial best-

seller since the first edition was published (it is consistently a #1 best-seller in medical statistics on Amazon). It is recommended worldwide on a variety of courses and programmes, from undergraduate medicine, through to professional medical qualifications. It is a book of key statistics principles for anyone studying or working in medicine and healthcare who needs a basic overview of the subject. It is ideal for non-statisticians who need to understand how statistics are used and applied in medicine and medical research. Using a consistent format, the authors describe the most common statistical methods in turn and then rate them on how difficult they are to

understand and how common they are. The worked examples that demonstrate the statistical method in action have been updated to include current articles from the medical literature and now feature a wider range of medical journals. This fourth edition continues with the same structure as the previous editions, with new sections on cut-off points and ROC curves, as well as a new chapter on choosing the right statistical test. It also features a completely revised and updated 'Statistics at work' section.

“Brilliant, funny . . . the best math teacher you never had.”—San Francisco Chronicle
Once considered tedious, the field of statistics is rapidly evolving into a discipline Hal Varian, chief economist at Google, has actually called “sexy.” From battling averages and political polls to game shows and medical research, the real-world application of statistics continues to grow by leaps and bounds. How can we catch schools that cheat on standardized tests? How does Netflix know which movies you’ll like? What is causing the rising incidence of autism? As best-selling author Charles Wheelan shows us in

Naked Statistics, the right data and a few well-chosen statistical tools can help us answer these questions and more. For those who slept through Stats 101, this book is a lifesaver. Wheelan strips away the arcane and technical details and focuses on the underlying intuition that drives statistical analysis. He clarifies key concepts such as inference, correlation, and regression analysis, reveals how biased or careless parties can manipulate or misrepresent data, and shows us how brilliant and creative researchers are exploiting the valuable data from natural experiments to tackle thorny questions. And in Wheelan’s trademark style, there’s not a dull page in sight. You’ll encounter clever Schlitz Beer marketers leveraging basic probability, an International Sausage Festival illuminating the tenets of the central limit theorem, and a head-scratching choice from the famous game show *Let’s Make a Deal*—and you’ll come away with insights each time. With the wit, accessibility, and sheer fun that turned *Naked Economics* into a bestseller, Wheelan defies the odds yet again by bringing another essential, formerly unglamorous discipline

to life.

This volume, representing a compilation of authoritative reviews on a multitude of uses of statistics in epidemiology and medical statistics written by internationally renowned experts, is addressed to statisticians working in biomedical and epidemiological fields who use statistical and quantitative methods in their work. While the use of statistics in these fields has a long and rich history, explosive growth of science in general and clinical and epidemiological sciences in particular have gone through a sea of change, spawning the development of new methods and innovative adaptations of standard methods. Since the literature is highly scattered, the Editors have undertaken this humble exercise to document a representative collection of topics of broad interest to diverse users. The volume spans a cross section of standard topics oriented toward users in the current evolving field, as well as special topics in much need which have more recent origins. This volume was prepared especially keeping the applied statisticians in mind, emphasizing application-oriented methods and techniques, including ref-

erences to appropriate software when relevant. · 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 modelling and longitudinal data analysis

Abstract: A textbook is intended to serve as a study guide for medical students for becoming well-informed regarding medical statistics for subsequent use in medical research. The theme of the text is to describe the statistical methodology frequently found in published medical research, particularly in the area of chronic diseases. Included are: basic concepts; text of significance; various statistical tests and tables; the use and comparison of survival curves; normally distributed data and their analysis; linear regression models for medical data; other regression models; the quality of data; clinical trial designs; and considerations of sam-

ple size. Specific applications to epidemiological studies also are described. Numerous tables, illustrations, and examples are given throughout the text.

The fun and easy way to get down to business with statistics Stymied by statistics? No fear? this friendly guide offers clear, practical explanations of statistical ideas, techniques, formulas, and calculations, with lots of examples that show you how these concepts apply to your everyday life. Statistics For Dummies shows you how to interpret and critique graphs and charts, determine the odds with probability, guesstimate with confidence using confidence intervals, set up and carry out a hypothesis test, compute statistical formulas, and more. Tracks to a typical first semester statistics course Updated examples resonate with today's students Explanations mirror teaching methods and classroom protocol Packed with practical advice and real-world problems, Statistics For Dummies gives you everything you need to analyze and interpret data for improved classroom or on-the-job performance.

Do you want to know what a parametric test is and

when not to perform one? Do you get confused between odds ratios and relative risks? Want to understand the difference between sensitivity and specificity? Would like to find out what the fuss is about Bayes' theorem? Then this book is for you! Physicians need to understand the principles behind medical statistics. They don't need to learn the formula. The software knows it already! This book explains the fundamental concepts of medical statistics so that the learner will become confident in performing the most commonly used statistical tests. Each chapter is rich in anecdotes, illustrations, questions, and answers. Not enough? There is more material online with links to free statistical software, webpages, multimedia content, a practice dataset to get hands-on with data analysis, and a Single Best Answer questionnaire for the exam.

Medicine deals with treatments that work often but not always, so treatment success must be based on probability. Statistical methods lift medical research from the anecdotal to measured levels of probability. This book presents the common statistical methods used in 90% of medical research, along

with the underlying basics, in two parts: a textbook section for use by students in health care training programs, e.g., medical schools or residency training, and a reference section for use by practicing clinicians in reading medical literature and performing their own research. The book does not require a significant level of mathematical knowledge and couches the methods in multiple examples drawn from clinical medicine, giving it applicable context. Easy-to-follow format incorporates medical examples, step-by-step methods, and check yourself exercises. Two-part design features course material and a professional reference section. Chapter summaries provide a review of formulas, method algorithms, and check lists. Companion site links to statistical databases that can be downloaded and used to perform the exercises from the book and practice statistical methods. New in this Edition: New chapters on: multifactor tests on means of continuous data, equivalence testing, and advanced methods. New topics include: trial randomization, treatment ethics in medical research, imputation of missing data, and making evi-

dence-based medical decisions. Updated database coverage and additional exercises. Expanded coverage of numbers needed to treat and to benefit, and regression analysis including stepwise regression and Cox regression. Thorough discussion on required sample size.

This textbook is intended for everyone involved in the medical profession and all others concerned with medical data. The material covered includes all the statistical work that would be required for a course in medicine.

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 complete-

ly 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 NHS Trust, UK. How to Report Statistics in Medicine presents a comprehensive and comprehensible set of guidelines for reporting the statistical analyses and research designs and activities commonly used in biomedical research. Containing elements of a reference book, a style manual, a dictionary, an encyclopedia, and a text book, it is the standard guide in the fields of medical writing, scientific publications, and evidence-based medicine throughout the world. Features: Specific, detailed guidelines for reporting and interpreting statistics and research designs and activities in biomedical science. Sample presentations that guide you in reporting statistics correctly and completely. Coverage of current and emerging topics in statistics and trial design. Written by a

senior medical writer and a senior biostatistician, the text is both clear and accurate, and the information is complete and pragmatic. Designed for anyone who needs to interpret or report statistics in medicine.

Medical Statistics Made Easy has been a perennial bestseller since it was first published in 2003 (#1 bestseller in medical statistics on Amazon). It is widely recommended on a variety of courses and programmes, from undergraduate medicine, through to professional medical qualifications. It is a book of key statistics principles for anyone studying or working in medicine and healthcare who needs a basic overview of the subject. Using a consistent format, the authors describe the most common statistical methods in turn and then rate them on how difficult they are to understand and how common they are. The worked examples that demonstrate the statistical method in action have been updated to include current articles from the medical literature and now feature a much wider range of medical journals. This third edition continues with the same structure as the previous editions and also features a completely revised

"Statistics at work" section. Medical Statistics Made Easy 3e scores 99/100 and 5 stars on Doody's (Sept 2014)! Here's what the reviewer said: "This is a practical guide to the use of statistics in medical literature and their application in clinical practice. The numerous examples help make the conceptualization of complex ideas easy. It is a great resource for healthcare students and clinicians in the field."

- * Emphasizes the latest trends in the field.
- * Includes a new chapter on evolving methods.
- * Provides updated or revised material in most of the chapters.

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

This new edition of Medical Statistics Made Easy 2nd edition enables readers to understand the key statistical techniques

used throughout the medical literature. Featuring a comprehensive updating of the 'Statistics at work' section, this new edition retains a consistent, concise, and user-friendly format. Each technique is graded for ease of use and frequency of appearance in the mainstream medical journals. Medical Statistics Made Easy 2nd edition is essential reading for anyone looking to understand:

- * confidence intervals and probability values
- * numbers needed to treat
- * t tests and other parametric tests
- * survival analysis

If you need to understand the medical literature, then you need to read this book. Reviews: "This book helps medical students understand the basic concepts of medical statistics starting in a 'step-by-step' approach'. The authors have designed the book assuming that the reader has no prior knowledge. It focuses on the most common statistical concepts that are likely to be faced in medical literature. All chapters are concise and simple to understand. Each chapter starts with an introduction which consists of "how important" that particular statistical concept is, using a 'star' system. A 'thumbs-up' system shows how easy the statistical

concept is to understand. Both these systems indicate time-efficient learning allowing yourself to focus on areas you find most difficult. Following this, there are worked out examples with exam-tips at the end of some chapters. The last chapter, 'Statistics at Work', shows how medical statistics is put into practice using worked out examples from renowned journals. This helps in assessing the reader's own knowledge and gives them confidence in analysis of statistics of a journal. In conclusion, we would recommend this book as an introduction into medical statistics before plunging into the deep 'statistical' waters! It gives confidence to the reader in taking up the challenge of understanding statistics and [being] able to apply knowledge in analysing medical literature." Stefanie Zhao Lin Lip & Louise Murchison, Scottish Medical Journal, June 2010 "If ever there was a book that completely lived up to its title, this is it...Perhaps above everything, it is the chapter layout and design that makes this book stand out head and shoulders above the crowd. At the beginning of each chapter two questions are posed – how

important is the subject in question and how difficult is it to understand? The first is answered on the basis of how often the subject is mentioned / used in papers published in mainstream medical journals. A star rating is then given from one to five with five stars implying use in the majority of papers published. The second question is answered by means of a 'thumbs up' grading system. The more thumbs, the easier the concept is to understand (maximum of five). This, of course, provides a route into statistics for even the most idle of uneducated individuals! Five stars and five thumbs must surely indicate time-efficient learning! At the end of each chapter exam tips (light bulb icon!) are given – I doubt anyone could ask for more! The whole way in which the authors have written this book is commendable; the chapters are succinct, easy to follow and a pleasure to read...Is it value for money? – a definite yes even at twice the price. Of course I never exaggerate but if you breathe, you should own this book!" Ian Pearce, Urology News, June 2010 Medical Statistics Made Easy 2nd edition continues to provide the easiest

possible explanations of the key statistical techniques used throughout the medical literature. Featuring a comprehensive updating of the 'Statistics at work' section, this new edition retains a consistent, concise, and user-friendly format. Each technique is graded for ease of use and frequency of appearance in the mainstream medical journals. Medical Statistics Made Easy 2nd edition is essential reading for anyone looking to understand: * confidence intervals and probability values * numbers needed to treat * t tests and other parametric tests * survival analysis If you need to understand the medical literature, then you need to read this book. Reviews: "This book helps medical students understand the basic concepts of medical statistics starting in a 'step-by-step approach'. The authors have designed the book assuming that the reader has no prior knowledge. It focuses on the most common statistical concepts that are likely to be faced in medical literature. All chapters are concise and simple to understand. Each chapter starts with an introduction which consists of "how important" that particular statistical concept is, us-

ing a 'star' system. A 'thumbs-up' system shows how easy the statistical concept is to understand. Both these systems indicate time-efficient learning allowing yourself to focus on areas you find most difficult. Following this, there are worked out examples with exam-tips at the end of some chapters. The last chapter, 'Statistics at Work', shows how medical statistics is put into practice using worked out examples from renowned journals. This helps in assessing the reader's own knowledge and gives them confidence in analysis of statistics of a journal. In conclusion, we would recommend this book as an introduction into medical statistics before plunging into the deep 'statistical' waters! It gives confidence to the reader in taking up the challenge of understanding statistics and [being] able to apply knowledge in analysing medical literature." Stefanie Zhao Lin Lip & Louise Murchison, Scottish Medical Journal, June 2010 "If ever there was a book that completely lived up to its title, this is it...Perhaps above everything, it is the chapter layout and design that makes this book stand out head and shoulders above

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This essential textbook presents the basics of dental statistics in an accessible way, combining explanation in non-technical language with key messages, practical examples, suggestions for further reading and exercises complete with detailed solutions. There is an emphasis on the principles and application of statistics without the use of algebra. The statistical material is strongly rooted in practical examples drawn from a wide range of journal articles representing both dental health care delivery and clinical dentistry. The perspective is international, with papers drawn from a variety of settings around the world. Many articles are recent and report contemporary developments in dental care. The intended audience includes dental students and practitioners, those engaged in dental research and other health care professionals. For students and tutors, it covers the undergraduate curriculum, and the exercises and solutions make it ideal for course use. For practitioners and researchers it provides the first principles of study design, accessing the dental literature, and the preparation and publication of original dental research.

BASIC ALLIED HEALTH STATISTICS AND ANALYSIS, 4th Edition is the comprehensive resource for future health care professionals in a variety of Health Information Management careers. Designed to explain common statistical computations and their practical uses in health care settings, the book's hands-on approach requires students to think through problems and then apply the proper method of statistical analysis. Topics explore the current health care industry, basic math and statistical computations, vital statistics and mortality rates, census and occupancy rates, and more, all in accordance with CAHIIM curriculum standards and competencies. Chapter learning features include examples, tables and figures, and even a separate column for note-taking, along with a brand new chapter on the fundamentals of research. Plenty of case studies and self-assessment opportunities keep students engaged in the material, while ensuring a practical and discerning knowledge of key data and statistical concepts. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook

version.

Contraception Made Easy provides a concise overview of the subject and is especially written for non-specialists. The main audience for the book will be those working or training in primary care who want an easy-to-access, brief reference on the subject. Building on the success of the other Made Easy books (Medical Statistics Made Easy, Clinical Evidence Made Easy, Healthcare Economics Made Easy, Practice Accounts Made Easy), this book provides concise and easy access to the key areas of contraception required by primary care professionals. About the authors: Laura Percy is a Specialist Registrar in Community Sexual and Reproductive Health. Diana Mansour is a Consultant in Community Gynaecology and Reproductive Healthcare and Head of the Integrated Sexual Health Services for Newcastle upon Tyne, UK. She is also a Faculty Officer and Treasurer for the Faculty of Sexual and Reproductive Health Care, UK.

A concise, straightforward introduction to medical statistics, this book covers all the topics which a medical student or research worker is likely to encounter in routine work. It can

be used for self-teaching, as a reference text, and as a useful companion to basic courses in medical statistics. The book consists of twenty short chapters, each including worked examples, the chapter order reflecting a logical progression of practical concepts rather than a formal mathematical development.

This book answers all your students' questions on the nursing research process. Restructured to follow their progress from being a novice nurse researcher to an experienced one, it gives them the knowledge to understand evidence-based practice and critical appraisal and to succeed in their own projects. Key features of the book are: Updated practical coverage of key methods such as conducting a survey and a section on the Research Excellence Framework International research examples in action Reflective exercises A companion website including access to journal articles and flashcards. It is essential reading for nursing undergraduates, postgraduates and all new researchers.

The majority of medical research involves quantitative methods and so it is essential to be able to un-

derstand and interpret statistics. This book shows readers how to develop the skills required to critically appraise research evidence effectively, and how to conduct research and communicate their findings.

A practical introduction to epidemiology, biostatistics, and research methodology for the whole health care community. This comprehensive text, which has been extensively revised with new material and additional topics, utilizes a practical slant to introduce health professionals and students to epidemiology, biostatistics, and research methodology. It draws examples from a wide range of topics, covering all of the main contemporary health research methods, including survival analysis, Cox regression, and systematic reviews and meta-analysis—the explanation of which go beyond introductory concepts. This second edition of *Quantitative Methods for Health Research: A Practical Interactive Guide to Epidemiology and Statistics* also helps develop critical skills that will prepare students to move on to more advanced and specialized methods. A clear distinction is made between knowledge and concepts

that all students should ensure they understand, and those that can be pursued further by those who wish to do so. Self-assessment exercises throughout the text help students explore and reflect on their understanding. A program of practical exercises in SPSS (using a prepared data set) helps to consolidate the theory and develop skills and confidence in data handling, analysis, and interpretation. Highlights of the book include: Combining epidemiology and biostatistics to demonstrate the relevance and strength of statistical methods. Emphasis on the interpretation of statistics using examples from a variety of public health and health care situations to stress relevance and application. Use of concepts related to examples of published research to show the application of methods and balance between ideals and the realities of research in practice. Integration of practical data analysis exercises to develop skills and confidence. Supplementation by a student companion website which provides guidance on data handling in SPSS and study data sets as referred to in the text. *Quantitative Methods for Health Research*,

Second Edition is a practical learning resource for students, practitioners and researchers in public health, health care and related disciplines, providing both a course book and a useful introductory reference.

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 Medi-*

cal 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 at www.blackwellpublishing.com/essentialmedstats. This useful online resource provides statistical datasets to download, as well as sample chapters and future updates.

In this "important and comprehensive" guide to statistical thinking (New Yorker), discover how data literacy is changing the world and gives you a better understanding of life's biggest problems. Statistics are everywhere, as integral to science as they are to business, and in the popular media hundreds of times a day. In this age of big data, a basic grasp of statistical literacy is more important than ever if we want to separate the fact from the fiction, the ostentatious embellishments from the raw evidence -- and even more so if we hope to participate in the future, rather than being simple bystanders. In *The Art of Statistics*, world-renowned statistician David Spiegelhalter shows readers how to derive knowledge from raw data by focusing on the concepts and connections behind the math. Drawing on real world examples to introduce com-

plex issues, he shows us how statistics can help us determine the luckiest passenger on the Titanic, whether a notorious serial killer could have been caught earlier, and if screening for ovarian cancer is beneficial. *The Art of Statistics* not only shows us how mathematicians have used statistical science to solve these problems -- it teaches us how we too can think like statisticians. We learn how to clarify our questions, assumptions, and expectations when approaching a problem, and -- perhaps even more importantly -- we learn how to responsibly interpret the answers we receive. Combining the incomparable insight of an expert with the playful enthusiasm of an aficionado, *The Art of Statistics* is the definitive guide to stats that every modern person needs.

A clear and concise introduction and reference for anyone new to the subject of statistics.

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. The author draws on twenty years of experience as a consulting medical statistician to provide clear explanations to key statistical concepts, with a firm emphasis on practical aspects of designing and analyzing medical research. The text gives special attention to the presentation and interpretation of results and the many real problems that arise in medical research. This highly popular introduction to confidence intervals has been thoroughly updated and expanded. It includes methods for using confidence intervals, with illustrative worked examples and extensive guidelines and checklists to help the novice.

From 'Abcissa' to 'Zygosity determination' - this accessible introduction to the terminology of medical statistics describes

more than 1500 terms all clearly explained, illustrated and defined in non-technical language, without any mathematical formulae! With the majority of terms revised and updated and the addition of more than 100 brand new definitions, this new edition will enable medical students to quickly grasp the meaning of any of the statistical terms they encounter when reading the medical literature. Furthermore, annotated comments are used judiciously to warn the unwary of some of the common pitfalls that accompany some cherished biomedical statistical techniques. Wherever possible, the definitions are supplemented with a reference to further reading where the reader may gain a deeper insight, so whilst the definitions are easily digestible, they also provide a stepping stone to a more sophisticated comprehension. Statistical terminology can be quite bewildering for clinicians: this guide will be a life-saver.

Clinical Evidence Made Easy is a concise and accessible introduction for any healthcare professional looking to understand clinical evidence and data sources. Clinical Evidence Made Easy scores maxi-

mum 100 and 5 stars on Doody's (Sept 2014)! Here's what the reviewer said: "The authors present the concepts in a unique and simple way that is easy to read and understand." From other reviews: "The chapters are succinct. The text is simple and easy to follow..... I really like this text. The title says it all - Clinical Evidence Made Easy" Ulster Medical Journal "...the book will be useful for anyone who is interested in evidence based practice and who wants to be able to read published research papers and to pose appropriate questions of them." Nursing Times As clinical evidence becomes increasingly important in healthcare it is vital that healthcare professionals can read, analyse and understand the clinical data being presented. This book will equip the reader with the core skills and knowledge to make sense of the clinical evidence, without overburdening them with information and jargon. Building on the success of the other 'Made Easy' books (Medical Statistics Made Easy, Healthcare Economics Made Easy, Practice Accounts Made Easy), this is a book for non-specialists who need knowledge of the key tools and

techniques so they can understand the clinical data, but who have no need to become experts in the subject. *Clinical Evidence Made Easy* will enable healthcare workers in all fields to understand and implement the results from clinical trials, clinical journals and other data sources with confidence.

Required reading in many medical and healthcare institutions, *How to Read a Paper* is a clear and wide-ranging introduction to evidence-based medicine and healthcare, helping readers to understand its central principles, critically evaluate published data, and implement the results in practical settings. Author Trisha Greenhalgh guides readers through each fundamental step of inquiry, from searching the literature to assessing methodological quality and appraising statistics. *How to Read a Paper* addresses the common criticisms of evidence-based healthcare, dispelling many of its myths and misconceptions, while providing a pragmatic framework for testing the validity of healthcare literature. Now in its sixth edition, this informative text includes new and expanded discussions of study bias, political interference in published reports, medical

statistics, big data and more. Offers user-friendly guidance on evidence-based healthcare that is applicable to both experienced and novice readers. Authored by an internationally recognised practitioner and researcher in evidence-based healthcare and primary care. Includes updated references, additional figures, improved checklists and more. *How to Read a Paper* is an ideal resource for healthcare students, practitioners and anyone seeking an accessible introduction to evidence-based healthcare.

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 prac-

tical approach will appeal to applied statisticians and biomedical researchers, in particular those in the biopharmaceutical industry, medical and public health organisations.

Now in its fourth edition, *Medical Statistics at a Glance* is a concise and accessible introduction to this complex subject. It provides clear instruction on how to apply commonly used statistical procedures in an easy-to-read, comprehensive and relevant volume. This new edition continues to be the ideal introductory manual and reference guide to medical statistics, an invaluable companion for statistics lectures and a very useful revision aid. This new edition of *Medical Statistics at a Glance: Offers guidance on the practical application of statistical methods in conducting research and presenting results Explains the underlying concepts of medical statistics and presents the key facts without being unduly mathematical Contains succinct self-contained chapters, each with one or more examples, many of them new, to illustrate the use of the methodology described in the chapter. Now provides templates for critical ap-*

praisal, checklists for the reporting of randomized controlled trials and observational studies and references to the EQUATOR guidelines for the presentation of study results for many other types of study Includes extensive cross-referencing, flowcharts to aid the choice of appropriate tests, learning objectives for each chapter, a glossary of terms and a glossary of annotated full computer output relevant to the examples in the text Provides cross-referencing to the multiple choice and structured questions in the companion Medical Statistics at a Glance Workbook Medical Statistics at a Glance is a must-have text for undergraduate and post-graduate medical students, medical researchers and biomedical and pharmaceutical professionals.

If you think that statistics has nothing to say about what you do or how you could do it better, then you are either wrong or in need of a more interesting job. Stephen Senn explains here how statistics determines many decisions about medical care, from allocating resources for health, to determining which drugs to license, to cause-and-effect in relation to disease. He tackles

big themes: clinical trials and the development of medicines, life tables, vaccines and their risks or lack of them, smoking and lung cancer and even the power of prayer. He entertains with puzzles and paradoxes and covers the lives of famous statistical pioneers. By the end of the book the reader will see how reasoning with probability is essential to making rational decisions in medicine, and how and when it can guide us when faced with choices that impact on our health and even life.

Experts estimate that as many as 98,000 people die in any given year from medical errors that occur in hospitals. That's more than die from motor vehicle accidents, breast cancer, or AIDS—three causes that receive far more public attention. Indeed, more people die annually from medication errors than from workplace injuries. Add the financial cost to the human tragedy, and medical error easily rises to the top ranks of urgent, widespread public problems. *To Err Is Human* breaks the silence that has surrounded medical errors and their consequence—but not by pointing fingers at caring health care professionals

who make honest mistakes. After all, to err is human. Instead, this book sets forth a national agenda "with state and local implications" for reducing medical errors and improving patient safety through the design of a safer health system. This volume reveals the often startling statistics of medical error and the disparity between the incidence of error and public perception of it, given many patients' expectations that the medical profession always performs perfectly. A careful examination is made of how the surrounding forces of legislation, regulation, and market activity influence the quality of care provided by health care organizations and then looks at their handling of medical mistakes. Using a detailed case study, the book reviews the current understanding of why these mistakes happen. A key theme is that legitimate liability concerns discourage reporting of errors "which begs the question, "How can we learn from our mistakes?" Balancing regulatory versus market-based initiatives and public versus private efforts, the Institute of Medicine presents wide-ranging recommendations for improving patient safety, in the ar-

reas of leadership, improved data collection and analysis, and development of effective systems at the level of direct patient care. To Err Is Human asserts that the problem is not bad people in health care "it is that good people are working in bad systems that need to be made safer. Comprehensive and straightforward, this book offers a clear prescription for raising the level of patient safety in American health care. It also explains how patients themselves can influence the quality of care that they receive once they check into the hospital. This book will be vitally important to federal, state, and local health policy makers and regulators, health professional licensing officials, hospital administrators, medical educators and students, health caregivers, health journalists, patient advocates "as well as patients themselves. First in a series of publications from the Quality of Health Care in America, a project initiated by the Institute of Medicine

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 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 effectively, and to improve communication with supporting biostatisticians

Statistics can be an intimidating subject for many students and clinicians. This concise text introduces basic concepts that underpin medical statistics and, using everyday clinical examples, highlights the importance of statistical principles to understanding and implementing research findings in routine clinical care.

This comprehensive workbook contains a variety of self-assessment methods that allow readers to test their statistical knowledge, put it into practice, and apply it in a medical context, while also providing guidance when critically appraising published literature. It is designed to support the best-selling third edition of *Medical Statistics at a Glance*, to which it is fully cross-referenced, but may be used independently of it. Ideal for medical students, junior doctors, researchers and anyone working in the biomedical and pharmaceutical disciplines who wants to feel more confident in basic medical statistics, the title includes: Over 80 MCQs, each testing knowledge of a single statistical concept or aspect of study interpretation 29 structured questions to explore in greater depth several statistical techniques or principles,

including the choice of appropriate statistical analyses and the interpretation of study findings Templates for the appraisal of clinical trials and observational studies, plus full appraisals of two published papers to demonstrate the use of these templates in practice Detailed step-by-step analyses of two substantial data sets (also available at www.medstatsaag.com) to demonstrate the application of statistical procedures to real-life research *Medical Statistics at a Glance Workbook* is the ideal resource to test statistical knowledge and improve analytical and interpretational skills. Additional resources are available at

www.medstatsaag.com, including: Excel datasets to accompany the data analysis section Downloadable PDFs of two templates for critical appraisal Links to online further reading Supplementary MCQs

Now in its Second Edition, this book helps to unravel the process of evidence-based practice, which requires clinicians to evaluate and collate information from the journals they read. *Understanding Clinical Papers, Second Edition* uses actual papers to illustrate how to understand and evalu-

ate published research, but goes beyond this to provide an explanation of a range of important research-related topics. *Understanding Clinical Papers, Second Edition: Covers everything necessary to understand a clinical research paper* Examples are illustrated and based uniquely on tables, abstracts and excerpts from published clinical research papers Amazingly clear, lively, accessible style The new edition has been markedly improved and extended, containing, for example, new material on measurement scales, systematic reviews, writing a paper, statistics software and critical appraisal "What strikes the reader... straight away is clarity... promises to become a recommended text for undergraduate and postgraduate courses." *JOURNAL OF TROPICAL PEDIATRICS* "The writing style is amazingly clear and does not require formal course work in biostatistics or epidemiology... We strongly recommend it for beginners and for easy entry into a complex domain and to experts who we think will enjoy it and who will find it useful as they teach, advise and help others." *QUALITY IN HEALTH CARE* "What makes this book unique is that each pointp-

resented is illustrated with excerpts from actual papers, oftenthree or four per chapter... this is a very effective teachingdevice." JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION "This book should be an essential ad-

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