

# Access PDF Medical Statistics Made Easy 2nd Edition

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## 61JMD7 - MAXWELL CHARLES

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

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.

Holistic approach to understanding medical statistics This hand-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 presentation 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.

Biostatistics for Practitioners: An Interpretative Guide for Medicine and Biology deals with several aspects of statistics that are indispensable for researchers and students across the biomedical sciences. The book features a step-by-step approach, focusing on standard statistical tests, as well as discussions of the most common errors. The book is based on the author's 40+ years of teaching statistics to medical fellows and biomedical researchers across a wide range of fields. Discusses how to use the standard statistical tests in the biomedical field, as well as how to make statistical inferences (t test, ANOVA, regression etc.) Includes non-standards tests, including equivalence or non-inferiority testing, extreme value statistics, cross-over tests, and simple time series procedures such as the runs test and Cusums Introduces procedures such as multiple regression, Poisson regression, meta-analysis and resampling statistics, and provides references for further studies

A unique resource, this book is designed to determine not only your level of expertise and applicability of knowledge but also serve as an up-to-date clinical resource in the practice of cardiac sonography. This powerful, long-needed resource presents the essentials of clinical echocardiography in a precise Q&A format fashioned after Clinical Echocardiography Review A Self-Assessment Tool edited by Allan L. Klein and Craig R. Asher. Whether you are just beginning your training, are already preparing for your examination, or simply want to review and increase your knowledge depth, this easy-to-use resource will help you develop the knowledge and skills you need for success. This is the tablet version which does not include access to the videos mentioned in the text.

SBA's and EMIs for the General Surgery FRCS is a key resource for

trainees preparing to face the challenging FRCS Section 1 examination. Featuring over 600 Single Best Answers (SBAs) and Extended Matching Items (EMIs) written by successful candidates of the General Surgery FRCS, this resource ensures high-quality self-assessment. Split into chapters on key sub-specialties, all questions are mapped to the surgical curriculum and mirror the level of detail required to succeed in the Section 1 examination. Each chapter is clearly structured with all SBA and EMI questions first, followed by corresponding answers, detailed explanations and relevant further reading sources. This layout enables trainees to assess their level of knowledge, and practise the technique and approach needed for the examination. Providing high-quality questions and expert guidance, this resource is a comprehensive revision tool for senior trainees in General Surgery.

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 sta-

tistical 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 evidence-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

Rev. ed. of: Physician assistant's guide to research and medical literature / [edited by] J. Dennis Blessing. 2nd ed. Philadelphia: F.A. Davis, c2006.

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 bestseller 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.

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 areas 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

Score your highest in biostatistics *Biostatistics* is a required course for students of medicine, epidemiology, forestry, agriculture, bioinformatics, and public health. In years past this course has been mainly a graduate-level requirement; however its application is growing and course offerings at the undergraduate level are exploding. *Biostatistics For Dummies* is an excellent resource

for those taking a course, as well as for those in need of a handy reference to this complex material. Biostatisticians—analysts of biological data—are charged with finding answers to some of the world's most pressing health questions: how safe or effective are drugs hitting the market today? What causes autism? What are the risk factors for cardiovascular disease? Are those risk factors different for men and women or different ethnic groups? *Biostatistics For Dummies* examines these and other questions associated with the study of biostatistics. Provides plain-English explanations of techniques and clinical examples to help Serves as an excellent course supplement for those struggling with the complexities of the biostatistics Tracks to a typical, introductory biostatistics course *Biostatistics For Dummies* is an excellent resource for anyone looking to succeed in this difficult course.

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

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 com-

panion 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 appraisal, 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.

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](http://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](http://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

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 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, post-graduates and all new researchers.

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

This title is directed primarily towards health care professionals outside of the United States. Written by authors with clinical and research experience, this book is intended for midwives and student midwives participating in Diploma, Advanced Diploma and

first level degree programmes. It aims to increase research awareness and develop the skills of critical appraisal of research evidence that are essential to evidence based practice.

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 under-

stand? 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

This book helps you to revise and prepare for the CSA part of the MRCGP exam. The new edition features an additional 11 clinical scenarios, all presented in the same standardised format to help you to improve your: \* data gathering – a broad range of appropriate questions to ask the patient are provided and red flags are highlighted where appropriate \* interpersonal skills – each clinical problem is described using terms that you can use in your explanations to patients \* clinical management – tells you which examinations to consider, which investigations to order, and how to manage each clinical problem based on the latest guidelines and current best practice \* consultations – to help you practise, every clinical case features a realistic role play scenario, all of which have been extended with additional information in the new edition. Every clinical scenario in this new edition has been updated and new appendices have been added to cover driving and the latest DVLA guidelines, and when to suspect child maltreatment. The book is designed to be used as a workbook, with wide margins to allow you to add in your own notes, questions and other aides-memoires. Used in this way, CSA Revision Notes for the MRCGP is the ideal book to help you successfully prepare for the exam. From reviews of the first edition: "Following the glowing reviews of this book I bought it for my CSA preparation. It is a very well written book and a good resource for the CSA. I like the lay out with different case scenarios presented in the CSA style of – data gathering, interpersonal skills and clinical management. I like the open ques-

tions and focused questions for each scenario and the role play idea at the end of each case scenario. Interestingly this is the recommended read from our VTS programme."

Designed for candidates preparing for the MCEM Part A exam, *Get Through MCEM Part A: MCQs* provides invaluable revision for this new exam, success in which is obligatory for entry into higher specialist training in Emergency Medicine. Over 400 practice questions are presented reflecting the format and content used in the actual exam. Useful revision tips and practical advice on the format of the exam, plus techniques for answering questions are provided to develop candidates' exam skills and build up confidence in readiness for the exam day. Three complete mock exams provide the ultimate last minute revision tool. All the answers are supported with detailed explanations to allow the candidate to assess and supplement their own level of knowledge, and target areas of weakness. *Get Through MCEM Part A: MCQs* is comprehensive and authoritative: all authors are practising emergency physicians. Featuring questions that specifically address all areas of the College of Emergency Medicine's curriculum, this is the essential revision book for all candidates preparing for the Part A exam. It also provides valuable revision for trainees sitting the FCEM exam and for medical students revising for clinical exams.

*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 maximum 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 over-burdening them with information and jargon. Building on the success of the other 'Made Easy' books (*Medical Statistics Made Easy*, *Healthcare Economics Made Easy*, *Prac-*

*tice 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.

*How to Read a Paper* describes the different types of clinical research reporting, and explains how to critically appraise the publications. The book provides the tools to find and evaluate the literature, and implement the findings in an evidence-based, patient-centered way. Written for anyone in the health care professions who has little or no knowledge of evidence-based medicine, it provides a clear understanding of the concepts and how to put them into practice at the basic, clinical level. Changes for the 4th edition The fourth edition will include two new chapters on important developments in health care research and delivery, but otherwise retains its original style, size, and scope. New chapter on quality improvement – describing papers on quality improvement projects using ebm methods; this will extend the readership to non clinical health care professionals working in hospitals and family practice, and to nurse specialists and practice nurses working in this field New chapter on complex interventions - how to set up research projects involving both qualitative and quantitative methodology (known as mixed methods) Thorough revision and updating of existing chapters and references New illustrations – diagrammatic representations of ebm concepts

From 'Abcissa' to 'Zygoty 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.

Featuring a wealth of practice questions, MRCP PART 2: 450 BOFs allows trainees to test themselves on everything they need to know to pass the MRCP Part 2 written exam.

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.

"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 batting 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. 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 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.

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. Tak-

ing 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.

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.

The most important points in clinical biostatistics, presented intuitively with clinical examples. Valuable not only for biostatistics courses and medical board review, but for providing a lasting clear approach to interpreting medical research reports.

This volume presents a comprehensive and comprehensible set of guidelines for reporting the statistical analyses and research designs and activities commonly used in biomedical research.

*Statistics for Nursing: A Practical Approach, Second Edition* is designed in accordance with the Conversation Theory of Gordon Pask and presents the complicated topic of statistics in an understandable manner for entry level nurses. The underlying principle of this design is to give students the opportunity to practice statis-

tics while they learn statistics. The text accomplishes this through the inclusion of relevant clinical examples followed by end of chapter application exercises. The Second Edition focuses on topics around Nursing Practice and was selected based on a review of the current statistical techniques used most frequently in nursing literature. The top ten statistical techniques used throughout nursing are covered very clearly in the text and without any irrelevant complicating concepts. This text meets the needs of both undergraduate nursing research students who need to learn how to critically analyze literature as well as graduate DNP students who must also be familiar with statistics for nursing in accordance with the rigor of the DNP program. Key Features: Designed in accordance with the Conversation Theory of Gordon Pask Clinically Relevant examples found in each chapter Review questions at the end of each chapter Three comprehensive appendices featuring nursing research articles Opportunity for review and application of statistics via an online resource Instructor Resources include: Recorded Lectures SPSS Video Written Tutorials Homework Review Videos Test Bank

**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.

**Fundamentals of Radiation Oncology: Physical, Biological, and Clin-**

**ical Aspects, Third Edition** continues to provide current, concise, and a readily available source of clinical information for busy practicing radiation oncologists. The book consists of 26 chapters, divided into four parts: Part I describes the basic science of radiation oncology, with discussions of radiation physics, radiation protection, and radiation biology, as well as molecular biology. Part II describes techniques and modalities of radiation oncology including brachytherapy, intensity-modulated radiation therapy (IMRT), stereotactic radiotherapy (SRS), stereotactic body radiation therapy (SBRT), and proton therapy. Significant recent advances made in the areas of immunotherapy and combined modality therapy; as such, these chapters have also been added to this new edition. Part III describes the clinical science of radiation oncology including risk factors, symptoms/signs, and investigations needed for the cancer diagnosis and up-to-date treatment recommendations in accordance with the new AJCC staging system. In addition, radiation treatment techniques, with an emphasis on IMRT, have been expanded to all the chapters. Also included in this version of the book is a chapter on benign diseases. Updated annotated bibliographies of latest landmark studies providing evidence-based rationale for the recommended treatments are presented at the end of each chapter. Part IV describes palliative radiation treatments to improve the quality of life for cancer patients and the management of side effects from radiation treatment. This book is a must-have for all radiation oncology residents, radiation oncologists and all professionals engaged in the care of cancer patients. New chapters on brachytherapy, IMRT/IGRT, SRS, SBRT, proton therapy, immunotherapy, combined modality therapy, and benign diseases Eighth edition of the AJCC staging system IMRT techniques for all common cancer sites, along with up-to-date treatment recommendations Relevant, landmark studies that provide evidence-based rationale for recommended treatments

**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."

This work is aimed at healthcare professionals, doctors and medical students who need to know how to interpret statistical techniques commonly used in mainstream medical journals. It describes key statistical techniques, when to use them, and common pitfalls.

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

**MRCP Part 2: 450 BOFs, Second Edition** offers a comprehensive selection of practice questions for trainees preparing for the MRCP Part 2 exam. Chapters are arranged by specialty and the weighting of questions is proportional to the exam. Thoroughly updated and featuring a wealth of practice questions that will test your ability to apply clinical understanding and make clinical judgements, this book is an essential revision tool to maximise the chances of exam success. Key points Gives practical advice on how to approach revision and useful tips to help improve exam technique Contains questions that accurately reflect the format and the range of difficulty in the exam Includes image interpretation questions in full colour