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Clinical

**Biostatistics And
Epidemiology Made
Ridiculously Simple**

Sixth edition of the hugely

Read Book Clinical Biostatistics And Epidemiology Made Ridiculously Simple

successful, internationally recognised textbook on global public health and epidemiology comprehensively covering the scope, methods, and practice of the discipline.

This User's Guide is intended

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to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a

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patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease,

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condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve

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many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health

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care products and services, to measure or monitor safety and harm, and/or to measure quality of care. Registries are classified according to how their populations are defined. For example, product registries

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include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical

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encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or heart failure. The User's Guide was created by researchers affiliated with

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AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to

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multiple internal and external independent reviews.

The most important points in clinical biostatistics, presented intuitively with clinical examples. Valuable not only for biostatistics courses and

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medical Board review, but for providing a lasting clear approach to interpreting medical research reports.

Score your highest in biostatistics Biostatistics is a required course for students of

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medicine, epidemiology,
forestry, agriculture,
bioinformatics, and public
health. In years past this
course has been mainly a
graduate-level requirement;
however its application is

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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

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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

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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

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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

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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

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succeed in this difficult course.

Biostatistics Decoded

Basic & Clinical Biostatistics

Medical Statistics Made Easy

An Introduction to Clinical

Epidemiology

Practical Statistics for Medical

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Research

Epidemiology and Biostatistics
Secrets

***Bayesian analyses have
made important inroads
in modern clinical
research due, in part, to***

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***the incorporation of the
traditional tools of
noninformative priors as
well as the modern
innovations of adaptive
randomization and
predictive power.***

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***Presenting an
introductory perspective
to modern Bayesian
procedures, Elementary
Bayesian Biostatistics
explo
Basic Biostatistics is a***

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***concise, introductory text
that covers biostatistical
principles and focuses on
the common types of data
encountered in public
health and biomedical
fields. The text puts equal***

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***emphasis on exploratory
and confirmatory
statistical methods.***

***Sampling, exploratory
data analysis, estimation,
hypothesis testing, and
power and precision are***

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***covered through detailed,
illustrative examples. The
book is organized into
three parts: Part I
addresses basic concepts
and techniques; Part II
covers analytic***

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***techniques for
quantitative response
variables; and Part III
covers techniques for
categorical responses.
The Second Edition offers
many new exercises as***

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***well as an all new chapter
on "Poisson Random
Variables and the
Analysis of Rates." With
language, examples, and
exercises that are
accessible to students***

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***with modest
mathematical
backgrounds, this is the
perfect introductory
biostatistics text for
undergraduates and
graduates in various***

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fields of public health.

***Features: Illustrative,
relevant examples and
exercises incorporated
throughout the book.***

***Answers to odd-numbered
exercises provided in the***

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back of the book.

***(Instructors may requests
answers to even-
numbered exercises from
the publisher. Chapters
are intentionally brief and
limited in scope to allow***

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***for flexibility in the order
of coverage. Equal
attention is given to
manual calculations as
well as the use of
statistical software such
as StaTable, SPSS, and***

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***WinPepi. Comprehensive
Companion Website with
Student and Instructor's
Resources.***

***Includes fold-out
companion website
information guide.***

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***This workbook is
designed to teach the
major fundamental
concepts in Epidemiology,
Biostatistics, and clinical
research design alongside
the textbook***

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***"Epidemiology and
Biostatistics, 2nd
Edition". It is written in
concise and organized
fashion with many
examples to illustrate the
concepts deriving from a***

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***collection of written
materials created to teach
Epidemiology and
Biostatistics to medical
students. The major
differences from related
titles include a “story”***

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***based approach toward
teaching the material,
relative brevity while
maintaining focus on key
concepts, and taking the
perspective of first-time
learners (avoiding and/or***

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***clearly defining jargon,
using clear common-
sense language). It
features a variety of
questions: long, short,
and multiple choice
questions. The workbook***

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***is made to provide
students with the tools
necessary to form their
own informed conclusions
from the clinical research
literature.***

Essential Biostatistics

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***A Practical Interactive
Guide to Epidemiology
and Statistics
Clinical Epidemiology and
Biostatistics
Applied Mixed Model
Analysis***

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***Fundamentals of
Epidemiology and
Biostatistics
An Introduction to
Evidence-based Medicine***

This book marks the 50th
anniversary of the foundation of the

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International Epidemiological Association (IEA). It is a unique compendium by the world's leading epidemiologists of how the field has developed, and how it can be (and has been) applied to the control of common conditions and threats to

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public health. Five distinct sections guide the reader through the wealth of material: · Gives an historical account of the concepts and ideas, and current importance of epidemiology to global health issues and to organisations such as the

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WHO. · Illustrates the advances and contributions to epidemiologic knowledge and the control of disease in specific areas such as cancer, cardiovascular disease, respiratory disease, tuberculosis, maternal and child health, non-

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biologic disorders such as war and disasters, and new infectious diseases. · Outlines the use of epidemiology in areas such as public health, health services, occupational and environmental medicine, social epidemiology and

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nutrition. · Discusses methodological developments such as statistics, information sources, investigation of disease outbreaks and clinical epidemiology. · Looks at how the subject has developed internationally, with perspectives on

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regions such as the Americas, Poland, Spain, Eastern Mediterranean, New Zealand, China, Thailand and Japan. This remarkable insight into how epidemiology has developed is essential reading for both existing

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and aspiring epidemiologists.

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

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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

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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

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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

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have managed to read and understand" - Naveed Kirmani, Surgical Registrar, South London Healthcare HHS Trust, UK

Concise, fast-paced, intensive introduction to clinical research design for students and clinical

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research professionals Readers will gain sufficient knowledge to pass the United States Medical Licensing Examination part I section in Epidemiology Designing Clinical Research sets the standard for providing a practical

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guide to planning, tabulating, formulating, and implementing clinical research, with an easy-to-read, uncomplicated presentation. This edition incorporates current research methodology—including molecular and genetic clinical

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research—and offers an updated syllabus for conducting a clinical research workshop. Emphasis is on common sense as the main ingredient of good science. The book explains how to choose well-focused research questions and details the

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steps through all the elements of study design, data collection, quality assurance, and basic grant-writing. All chapters have been thoroughly revised, updated, and made more user-friendly.

Personal reports from those who

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were there

Designing Clinical Research

A Bite Sized Visual Guide

Biostatistics for Epidemiology and
Public Health Using R

Dental Statistics Made Easy

A User's Guide

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Board Review in Preventive
Medicine and Public Health
prepares physicians for
their initial and
recertification board exams
in the related specialties
of preventive, occupational
and aerospace medicine.

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Formatted in a question and answer based style that imitates material on specialty exams, each question is linked to a detailed answer. The book contains over 640 question and answer sets covering

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areas such as general public health, health management, health law, community health, infectious disease, clinical preventive medicine, occupational medicine, aerospace medicine, environmental

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medicine, correctional
(prison) medicine, emergency
preparedness, epidemiology
and biostatistics. The book
is an essential board
preparation for physicians
with a background in the
fields of preventive

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medicine, occupational
medicine, and aerospace
medicine. It is also useful
for medical students, public
health students and those
wishing to gain an
understanding of the key
points in these fields.

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Provides a question based format that imitates board exams in preventive, occupational and aerospace medicine Written by a specialist with board certification with the goal of elucidating the format,

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content and reasoning behind
the board certification exam
Enhances the reader's
understanding of material
with clear explanations of
answers

Since it first appeared in
1996, the open-source

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programming language R has become increasingly popular as an environment for statistical analysis and graphical output. This is the first textbook to present classical biostatistical analysis for

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epidemiology and related public health sciences to students using the R language. Based on the assumption that readers have minimal familiarity with statistical concepts, the author uses a step-by-step

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approach to building skills.
The text encompasses
biostatistics from basic
descriptive and quantitative
statistics to survival
analysis and missing data
analysis in epidemiology.
Illustrative examples,

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including real-life research problems drawn from such areas as nutrition, environmental health, and behavioral health, engage students and reinforce the understanding of R. These examples illustrate the

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replication of R for
biostatistical calculations
and graphical display of
results. The text covers
both essential and advanced
techniques and applications
in biostatistics that are
relevant to epidemiology.

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Also included are an instructor's guide, student solutions manual, and downloadable data sets. Key Features: First overview biostatistics textbook for epidemiology and public health that uses the open-

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source R program Covers
essential and advanced
techniques and applications
in biostatistics as relevant
to epidemiology Features
abundant examples to
illustrate the application
of R language for

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biostatistical calculations
and graphical displays of
results Includes
instructor's guide, student
solutions manual, and
downloadable data sets.

Biostatistics for Clinical
and Public Health Research

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provides a concise overview of statistical analysis methods. Use of SAS and Stata statistical software is illustrated in full, including how to interpret results. Focusing on statistical models without

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all the theory, the book is complete with exercises, case studies, take-away points, and data sets. Readers will be able to maximize their statistical abilities in hypothesis testing, data

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interpretation, and application while also learning when and how to consult a biostatistician. This book will be an invaluable tool for students and clinical and public health practitioners.

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Study design and statistical methodology are two important concerns for the clinical researcher. This book sets out to address both issues in a clear and concise manner. The presentation of statistical

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theory starts from basic concepts, such as the properties of means and variances, the properties of the Normal distribution and the Central Limit Theorem and leads to more advanced topics such as maximum

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likelihood estimation,
inverse variance and
stepwise regression as well
as, time-to-event, and event-
count methods. Furthermore,
this book explores sampling
methods, study design and
statistical methods and is

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organized according to the areas of application of each of the statistical methods and the corresponding study designs. Illustrations, working examples, computer simulations and geometrical approaches, rather than

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mathematical expressions and formulae, are used throughout the book to explain every statistical method. Biostatisticians and researchers in the medical and pharmaceutical industry who need guidance on the

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design and analysis of
medical research will find
this book useful as well as
graduate students of
statistics and mathematics
with an interest in
biostatistics. Biostatistics
Decoded: Provides clear

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explanations of key statistical concepts with a firm emphasis on practical aspects of design and analysis of medical research. Features worked examples to illustrate each statistical method using

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computer simulations and geometrical approaches, rather than mathematical expressions and formulae. Explores the main types of clinical research studies, such as, descriptive, analytical and experimental

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studies. Addresses advanced modeling techniques such as interaction analysis and encoding by reference and polynomial regression.

Clinical Neuroanatomy Made
Ridiculously Simple
Basic Biostatistics

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Basic & Clinical

Biostatistics: Fifth Edition

A Guide to Design, Analysis
and Discovery

Epidemiology and
Biostatistics

Registries for Evaluating
Patient Outcomes

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***Here is a book for
clinicians, clinical
investigators, trainees,
and graduates who wish
to develop their
proficiency in the
planning, execution, and***

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***interpretation of clinical
and epidemiological
research. Emphasis is
placed on the design and
analysis of research
studies involving human
subjects where the***

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***primary interest concerns
principles of analytic
(cause-and- effect)
inference. The topic is
presented from the
standpoint of the
clinician and assumes no***

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***previous knowledge of
epidemiology, research
design or statistics.***

***Extensive use is made of
illustrative examples
from a variety of clinical
specialties and***

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subspecialties. The book is divided into three parts. Part I deals with epidemiological research design and analytic inference, including such issues as measurement,

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***rates, analytic bias, and
the main forms of
observational and
experimental
epidemiological studies.
Part II presents the
principles and***

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***applications of
biostatistics, with
emphasis on statistical
inference. Part III
comprises four chapters
covering such topics as
diagnostic tests, decision***

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analysis, survival (life-table) analysis, and causality.

CD-ROM contains:

Coverage of research and design methods --

Statistical software and

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data sets.

***It is not necessary to
know how to do a
statistical analysis to
critically appraise a
paper. However, it is
necessary to have a***

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***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,***

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***basic information without
becoming bogged down
in the***

***With its engaging and
conversational tone,
Essential Biostatistics: A
Nonmathematical***

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***Approach provides a clear
introduction to statistics
for students in a wide
range of fields, and a
concise statistics
refresher for scientists
and professionals who***

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***need to interpret
statistical results. It
explains the ideas behind
statistics in
nonmathematical terms,
offers perspectives on
how to interpret***

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***published statistical
results, and points out
common conceptual traps
to avoid. It can be used
as a stand-alone text or
as a supplement to a
traditional statistics***

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textbook.

***Oxford Textbook of
Global Public Health
Clinical Biostatistics
Clinical Biostatistics
Made Ridiculously Simple
A Nonmathematical***

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Approach

The Development of Modern Epidemiology Basic Statistics and Epidemiology

Quantitative Research Methods for
Health Professionals: A Practical

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Interactive Course is a superb introduction to epidemiology, biostatistics, and research methodology for the whole health care community. Drawing examples from a wide range of health research, this practical handbook

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covers important contemporary health research methods such as survival analysis, Cox regression, and meta-analysis, the understanding of which go beyond introductory concepts. The book includes self-assessment exercises

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throughout to help students explore and reflect on their understanding and a clear distinction is made between a) knowledge and concepts that all students should ensure they understand and b) those that can be pursued by students who wish to

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do so. The authors incorporate a program of practical exercises in SPSS using a prepared data set that helps to consolidate the theory and develop skills and confidence in data handling, analysis and interpretation.

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The Biostatistics course is often found in the schools of public Health, medical schools, and, occasionally, in statistics and biology departments. The population of students in these courses is a diverse one, with varying preparedness. The

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book assumes the reader has at least two years of high school algebra, but no previous exposure to statistics is required. Written for individuals who might be fearful of mathematics, this book minimizes the technical difficulties and

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emphasizes the importance of statistics in scientific investigation. An understanding of underlying design and analysis is stressed. The limitations of the research, design and analytical techniques are discussed, allowing the reader to

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accurately interpret results. Real data, both processed and raw, are used extensively in examples and exercises. Statistical computing packages - MINITAB, SAS and Stata - are integrated. The use of the computer and software allows a

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sharper focus on the concepts,
letting the computer do the
necessary number-crunching. *

Emphasizes underlying statistical
concepts more than competing texts

* Focuses on experimental design
and analysis, at an elementary level

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* Includes an introduction to linear correlation and regression *

Statistics are central: probability is downplayed * Presents life tables and survival analysis * Appendix with solutions to many exercises *

Special instructor's manual with

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solution to all exercises

The ability to analyze and interpret enormous amounts of data has become a prerequisite for success in allied healthcare and the health sciences. Now in its 11th edition, **Biostatistics: A Foundation for**

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Analysis in the Health Sciences continues to offer in-depth guidance toward biostatistical concepts, techniques, and practical applications in the modern healthcare setting. Comprehensive in scope yet detailed in coverage,

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this text helps students understand—and appropriately use—probability distributions, sampling distributions, estimation, hypothesis testing, variance analysis, regression, correlation analysis, and other statistical tools fundamental to

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the science and practice of medicine. Clearly-defined pedagogical tools help students stay up-to-date on new material, and an emphasis on statistical software allows faster, more accurate calculation while putting the focus on the underlying

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concepts rather than the math.

Students develop highly relevant skills in inferential and differential statistical techniques, equipping them with the ability to organize, summarize, and interpret large bodies of data. Suitable for both

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graduate and advanced
undergraduate coursework, this text
retains the rigor required for use as a
professional reference.

Medicine is becoming increasingly
reliant on diagnostic, prognostic and
screening tests for the successful

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treatment of patients. With new tests being developed all the time, a more informed understanding of the benefits and drawbacks of these tests is crucial. Providing readers with the tools needed to evaluate and interpret these tests, numerous real-

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world examples demonstrate the practical application and relevance of the material. The mathematics involved are rigorously explained using simple and informative language. Topics covered include the diagnostic process, reliability and

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accuracy of tests, and quantifying treatment benefits using randomized trials, amongst others. Engaging illustrations act as visual representations of the concepts discussed in the book, complementing the textual

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explanation. Based on decades of experience teaching in a clinical research training program, this fully updated second edition is an essential guide for anyone looking to select, develop or market medical tests.

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A Primer for Clinical Investigators
and Decision-Makers

Elementary Bayesian Biostatistics

A Practical Guide

A Primer for Health Professionals

Biostatistics for Clinical and Public
Health Research

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Evidence-Based Diagnosis

**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**

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**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!**

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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

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**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**

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**anecdotes, illustrations,
questions, and answers.
Not enough? There is
more material online with
links to free statistical
software, webpages,
multimedia content, a**

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**practice dataset to get
hands-on with data
analysis, and a Single
Best Answer
questionnaire for the
exam.**

Publisher's Note:

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**product. Learn to
evaluate and apply
statistics in medicine,
medical research, and all
health-related fields
Basic & Clinical
Biostatistics provides**

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**medical students,
researchers, and
practitioners with the
knowledge needed to
develop sound judgment
about data applicable to
clinical care. This fifth**

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**edition has been updated
throughout to deliver a
comprehensive, timely
introduction to
biostatistics and
epidemiology as applied
to medicine, clinical**

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**practice, and research.
Particular emphasis is on
study design and
interpretation of results
of research. The book
features “Presenting
Problems” drawn from**

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**studies published in the
medical literature, end-of-
chapter exercises, and a
reorganization of content
to reflect the way
investigators ask
research questions. To**

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**facilitate learning, each
chapter contain a set of
key concepts
underscoring the
important ideas
discussed. Features: •
Key components include**

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**a chapter on survey
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psychology journals and only now
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