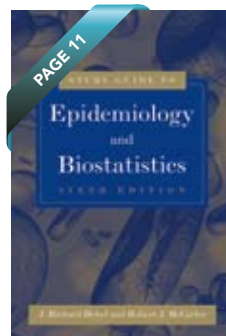
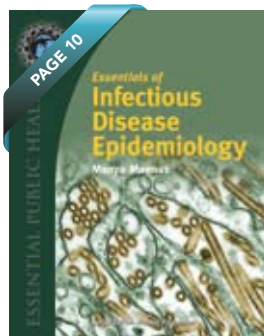
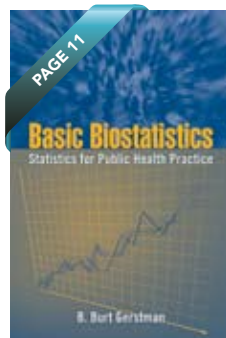
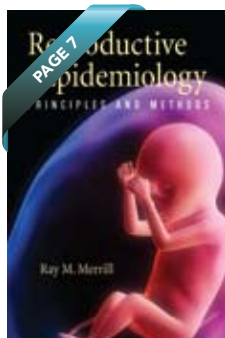
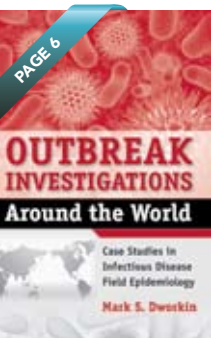
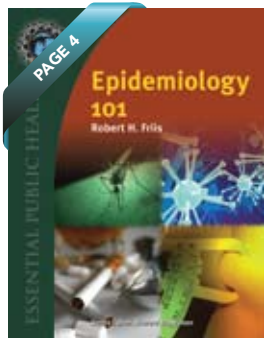
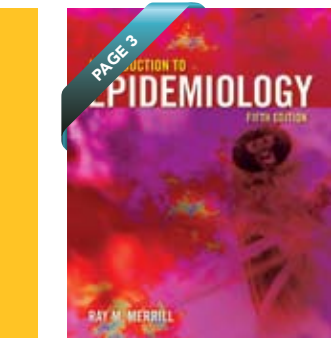


# EPIDEMIOLOGY AND BIOSTATISTICS

ACADEMIC CATALOG 2009–2010



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### A Note about Student and Instructor Resources

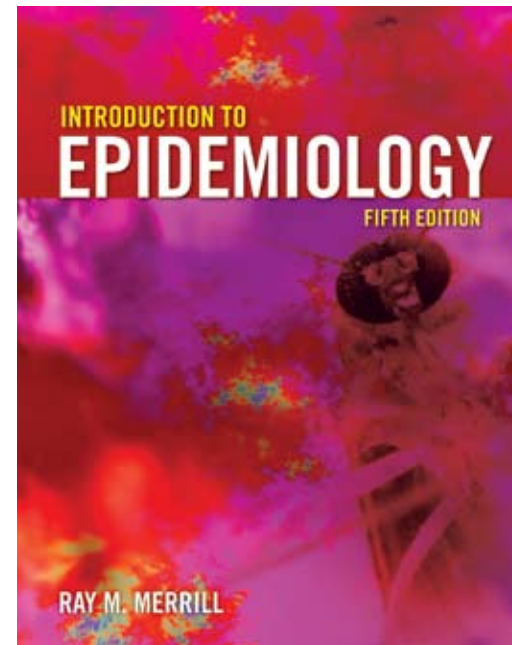
Many of our textbooks are accompanied by online instructor and student resources. Wherever these resources are available, they are noted as follows:

#### Instructor Resources:

IM = Instructor's Manual  
PP = PowerPoint Slides  
SL = Sample Syllabus  
TB = TestBank

#### Student Resources:

FL = Interactive Flashcards  
WL = Weblinks



## Introduction to Epidemiology

*Fifth Edition*

**Ray M. Merrill, PhD, MPH,**  
Professor, Department of Health Science, Brigham Young University, Utah

### Introduction to Epidemiology, Fifth Edition

is a reader-friendly exploration of the basic principles of epidemiology and their application in solving current public health issues. Readers will learn how to identify and describe problems, formulate research hypotheses, select appropriate research study designs, manage and analyze epidemiologic data, interpret study results, and apply the results to preventing and controlling disease and health-related events.

### Companion Web Site Resources

#### For Instructors

- Transition Guide
- Instructor's Manual
- TestBank
- PowerPoint Lecture Slides
- Answers to End-of-Chapter Questions

#### For Students

- Interactive Glossary

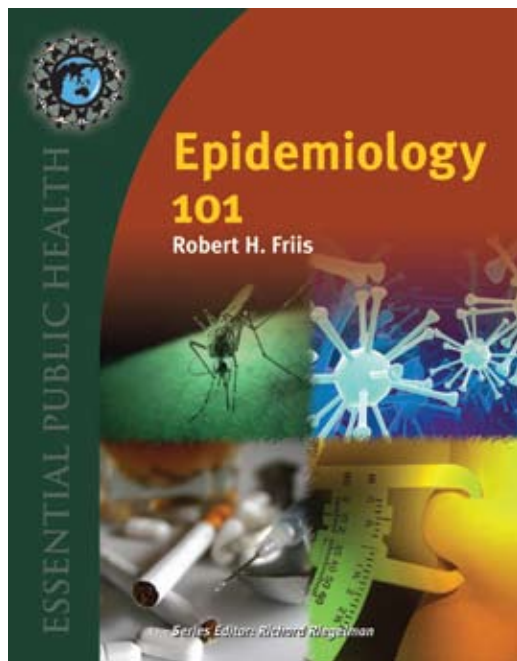
ISBN-13: 978-0-7637-6622-1 • Paperback • 418 Pages • © 2010 • Additional Format: CourseSmart

*The new Fifth Edition gives greater attention to real world, contemporary public health problems involving both infectious and chronic diseases.*

*An ideal introductory text for the epidemiology student with minimal training in the biomedical sciences and statistics.*

### Key Features

- Updated tables, figures, and examples throughout.
- Greater detail and explanation of descriptive and analytic study designs used in epidemiology.
- A new chapter on Clinical Epidemiology offers greater distinction between the clinicians focus on treating and caring for patients compared with the epidemiologist's focus on identifying sources, populations, and potential spread of public health problems.
- Expanded section on the history of epidemiology and the role of causal inference in epidemiology.
- A new section on cluster analysis and a completely revised chapter on chronic disease epidemiology.



## Epidemiology 101

**Robert H. Friis, PhD,**  
Department of Health Science, California State University, Long Beach

Designed to fulfill the four essential learning outcomes of Liberal Education and America's Promise (LEAP)—a campaign of the Association of American Colleges and Universities†—

*Epidemiology 101* is the ideal text for an undergraduate, general education course in epidemiology.

Using a clear, cohesive writing style, *Epidemiology 101* covers the basics of infectious disease epidemiology, environmental epidemiology, molecular epidemiology, and psychosocial/behavioral epidemiology. Numerous figures throughout the text capture the reader's interest and enhance learning.

The author uses many examples that are relevant to contemporary youth, such as youth violence, substance abuse, and the obesity epidemic making the text accessible and interesting to a wide range of young readers in the liberal arts, sciences, and other health-related disciplines.



Part the Essential Public Health series  
[www.essentialpublichealth.com](http://www.essentialpublichealth.com)

†To learn more about the AAC&U initiative or to download the curriculum guide, log on to: [www.aacu.org/public\\_health](http://www.aacu.org/public_health).

ISBN-13: 978-0-7637-5443-3 • Paperback • 220 Pages • © 2010

### Praise for this text:

“...seamlessly weaves epidemiologic concepts into a broader public health setting.”

—**Steven Valeika, DVM PhD,**  
Univ. of Georgia, College of Public Health

“... builds upon Robert Friis's many years of teaching and writing about Epidemiology, bringing alive the excitement of these fields.”

—**Richard Riegelman, MD, MPH, PhD,**  
George Washington U., School of Public Health & Health Services

### Key Features

- Follows the basic Epidemiology 101 curriculum framework as recommended by the AAC&U.
- Offers current, tangible examples from the field such as recent disease outbreaks, bioterrorism, and uses of epidemiology for policy development.
- Requires no prior familiarity with health-related fields or statistics.
- End-of-chapter exercises provide access to a laboratory component for college science courses that require a laboratory.

### Companion Web Site Resources

#### For Instructors

- Instructor's Manual
- PowerPoint Lecture Slides
- TestBank

#### For Students

- Interactive Flashcards
- Interactive Glossary

Visit [www.essentialpublichealth.com](http://www.essentialpublichealth.com)



## Epidemiology for Public Health Practice Fourth Edition

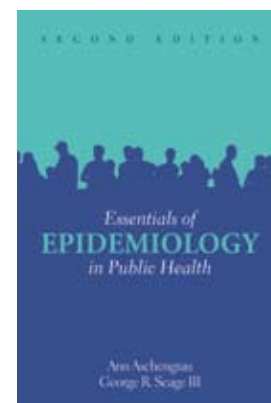
**Robert H. Friis, PhD,** Department of Health Science, California State University, Long Beach

Introduce your students to the most important and timely issues in epidemiology today. *Epidemiology for Public Health Practice* provides a comprehensive look at all the major topics from study designs and descriptive epidemiology, to quantitative measures and terminology. The *Fourth Edition* features new information on recent disease outbreaks, the natural history of disease, morbidity and mortality data, health disparities, and a new chapter on professional issues in epidemiology.

ISBN-13: 978-0-7637-5161-6 • Paperback • 712 Pages • © 2009

⊕ **Instructor Resources:** IM, PP, TB, SL

⊕ **Student Resources:** FL



## Essentials of Epidemiology in Public Health Second Edition

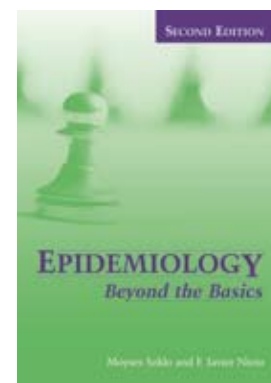
**Ann Aschengrau, ScD,** Boston University School of Public Health  
**George R. Seage, ScD,** Harvard School of Public Health

This text combines theory and practice in presenting traditional and new epidemiologic concepts. Broad in scope, the text opens with five chapters covering the basic epidemiologic concepts and data sources. A major emphasis is placed on study design, with separate chapters devoted to each of the three main analytic designs: experimental, cohort, and case-control studies. An entire chapter is devoted to the concept of effect measure modification. Up-to-date examples from the epidemiologic literature on diseases of public health importance are provided.

ISBN-13: 978-0-7637-4025-2 • Paperback • 516 Pages • © 2008

⊕ **Instructor Resources:** IM, PP, TB, SL

⊕ **Student Resources:** FL, WL

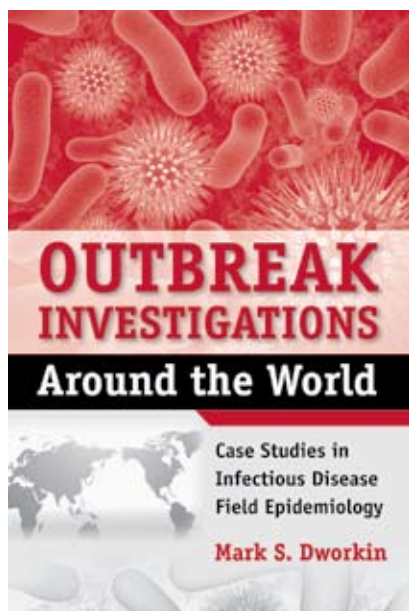


## Epidemiology Beyond the Basics, Second Edition

**Moyses Szklo, MD, DrPH,** Johns Hopkins School of Public Health  
**Javier Nieto, MD, PhD,** University of Wisconsin Medical School

Written for those who are familiar with the basic strategies of analytic epidemiology, *Epidemiology: Beyond the Basics* takes readers through a more rigorous discussion of key epidemiologic concepts and methods such as study design, measures of association, research assessment, and more. With real-life examples throughout, the book avoids complex statistical formulations and is an invaluable resource for intermediate students and practicing epidemiologists who wish to expand their knowledge of epidemiology and its role in the medical and public health sciences.

ISBN-13: 978-0-7637-2927-1 • Paperback • 489 Pages • © 2007



## Outbreak Investigations Around the World

*Case Studies in Infectious Disease Field Epidemiology*

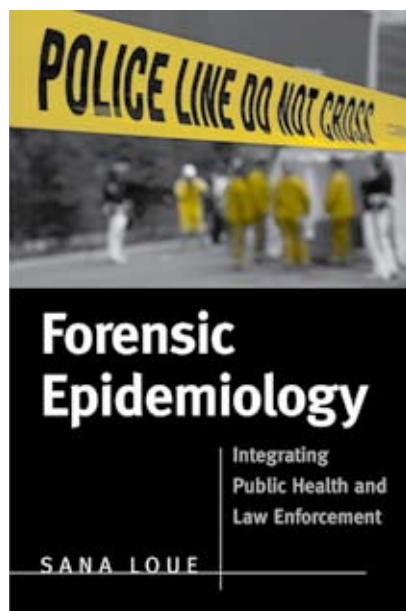
**Dr. Mark S. Dworkin**, MD, MPH, FACP, Associate Professor, University of Illinois at Chicago

*Outbreak Investigations Around the World* is a collection of 19 case studies that uncover the details of actual infectious disease outbreaks from within the United States and around the world. Each case study is retold by the investigator who recalls the critical issues considered along the way. Some of the most interesting investigations included in the text are:

- The discovery of legionnaire's disease during the 1976 outbreak of swine flu.
- The beginning of the AIDS epidemic.
- The anthrax investigations in New York City.
- An Ebola hemorrhagic fever outbreak in Africa.
- A syphilis outbreak associated with an Internet chat room.
- A deadly hepatitis B outbreak in an Israeli hospital.

These case studies bring to life the classic functions of field epidemiology and the application of epidemiological methods to unexpected health problems that require fast, on-site investigation and timely intervention.

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Paperback • 456 Pages © 2010



## Forensic Epidemiology

*Integrating Public Health and Law Enforcement*

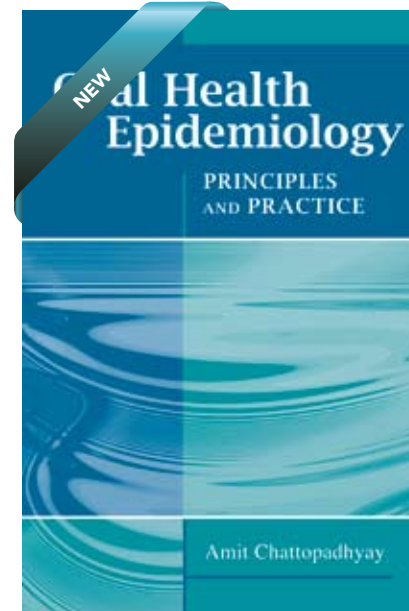
**Sana Loue**, JD, PhD, MPH, MSSA, Professor of Epidemiology and Biostatistics, Case Western Reserve University

*Forensic Epidemiology* explores the intersection of the principles and methods of epidemiology with law enforcement functions in the administrative and criminal contexts. Ideal for students and professionals in public health, criminology, and law, this book challenges readers to examine various policy questions and to contemplate their own values as scientists, legislators, policymakers, and individuals.

### Key Features

- Provides the reader with an overview of public health, administrative, and criminal law as well as the foundational concepts in the use of evidence in administrative and criminal proceedings.
- Case studies examine intersecting issues in communicable disease, mental health and substance use, partner violence, biological terrorism, and environmental concerns.
- Concludes with a look towards the future and suggestions for the training of professionals.

ISBN-13: 978-0-7637-3849-5  
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+ Instructor Resources: PP, TB



## Oral Health Epidemiology

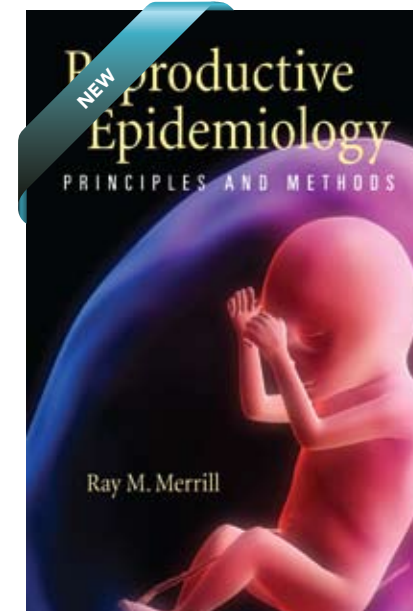
*Principles and Practice*

**Amit Chattopadhyay**, PhD, MPH, Assistant Professor of Epidemiology, College of Public Health, University of Kentucky

Thanks to scientific advancements and changing demographics in the United States and around the world, people of all ethnic groups and nationalities are retaining their teeth longer. Today's oral health professional must therefore be prepared to make educated and scientifically reasoned choices addressing a wide spectrum of oral diseases from children to the elderly, and for the ambulatory as well as non-ambulatory patients across all demographic profiles.

As the first text of its kind, *Oral Health Epidemiology* explores the full spectrum of epidemiological and translational clinical research including fundamental mechanisms of human disease, therapeutic intervention, clinical trials, and oral epidemiology. Topics that are unique to oral health such as the frequent use of split-mouth design on oral research, cross-over techniques and clustered nature of caries, periodontal, and other dental disease data, are all thoroughly addressed.

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Hardcover • 350 Pages © 2010



## Reproductive Epidemiology

*Principles and Methods*

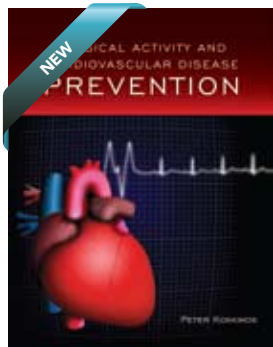
**Ray M. Merrill**, PhD, MPH, Brigham Young University

*Reproductive Epidemiology: Principles and Methods* explores the range of methodologies used to collect data and conduct analysis on the distribution and determinants of reproductive-related health states or events in human populations.

Challenging and sensitive research topics, including sexual behavior, abortion, illicit drug use, and sexual abuse are all thoroughly covered. Readers will come away with a clear understanding of the practical applications of epidemiology in the promotion of complete physical, mental, social, spiritual, emotional, and environmental health as they relate to the reproductive system.

Written for students with minimal training in the biomedical sciences and statistics, this text places emphasis on the application of the basic principles of epidemiology according to person, place, and time in order to solve current reproductive health problems.

ISBN-13: 978-0-7637-5869-1  
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+ Instructor Resources: IM, PP, TB



## Physical Activity and Cardiovascular Disease Prevention

**Peter Kokkinos**, PhD, FACSM, FAHA, Department of Cardiology, Georgetown University School of Medicine

*Physical Activity and Cardiovascular Disease Prevention* helps students understand the epidemiology behind the assertion that physical activity is associated with better health and quality of life. This text addresses the principles governing physical activity, the methods for measuring exertion, the cardiovascular and metabolic responses to physical activity, and cardiovascular disease and risk factors.

ISBN-13: 978-0-7637-5612-3 • Hardcover • 418 Pages • © 2010



## Epidemiology and Prevention of Cardiovascular Disease

*Second Edition*

**Darwin Labarthe**, MD, PhD

This book provides a comprehensive epidemiological perspective on cardiovascular diseases and analysis of measures for their prevention and control in community and clinical settings. Perfect for both students and practitioners, the *Second Edition* includes over 300 tables, figures, and exhibits; and has been thoroughly updated to reflect the most recent research in the field.

ISBN-13: 978-0-7637-4689-6 • Hardcover • 600 Pages • © 2011  
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## Clinical Epidemiology

*Principles, Methods, and Applications for Clinical Research*

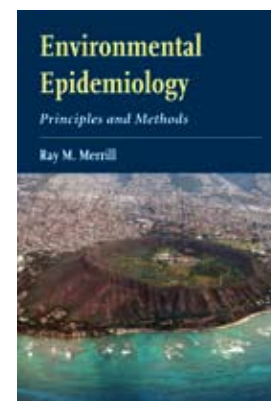
**Diederick E. Grobbee**, MD, PhD

**Arno W. Hoes**, MD, PhD

Both of the Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Netherlands

This comprehensive resource introduces the reader to the basics of clinical epidemiology and explores the principles and methods that can be used to obtain quantitative evidence on the effects of interventions and on the diagnosis, etiology, and prognosis of disease. The everyday challenges of clinical research and the quantitative knowledge required to practice medicine are also examined, making this book a valuable reference for both graduate and undergraduate students in medicine and related disciplines, as well as for professionals involved in the design and conduct of clinical research.

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## Environmental Epidemiology

*Principles and Methods*

**Ray M. Merrill**, PhD, MPH,

Department of Health Science, Brigham Young University

From the author of the bestselling *Introduction to Epidemiology*, this book presents basic concepts and research methods used in environmental epidemiology and the application of environmental epidemiology to influencing human health and well-being.

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⊕ **Instructor Resources:** IM, PP, TB



## Fundamentals of Cancer Epidemiology

*Second Edition*

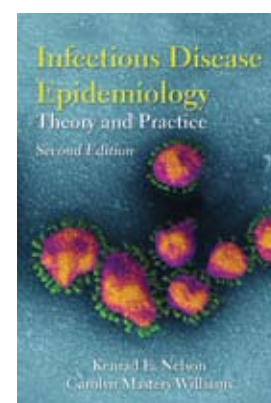
**Phillip C. Nasca**, PhD, Dean, School of Public Health, State University of New York, Albany

**Harris Pastides**, PhD, MPH, President, University of South Carolina

Using a unique framework, *Fundamentals of Cancer Epidemiology, Second Edition*, helps readers develop an in-depth understanding of the current body of knowledge on cancer—what it is, how it is defined, how it develops in biological and genetic terms, which groups are at highest risk, and what causes it.

ISBN-13: 978-0-7637-3618-7 • Hardcover • 541 Pages • © 2008

⊕ **Instructor Resources:** PP



## Infectious Disease Epidemiology

*Theory and Practice, Second Edition*

**Kenrad E. Nelson**, MD,

Johns Hopkins Bloomberg School of Public Health

**Carolyn Masters Williams**, PhD, MPH,

National Institute of Allergy and Infectious Diseases, NIH

*“Indeed, [the authors] have accomplished an almost impossible task: a far-reaching review of infectious disease epidemiology including state-of-the-art chapters on methodological issues, pathogenesis, and comprehensive reviews of virtually all known infectious diseases. Overall, the book is an excellent synthesis. ...the major strength of this textbook is the collective expertise and experience of its editors and contributing authors. ... an outstanding textbook for students and scholars of epidemiology and related biomedical fields. In addition, it is a fantastic reference book for the informed lay public who want to learn more about infectious diseases and their epidemiology and control.”*

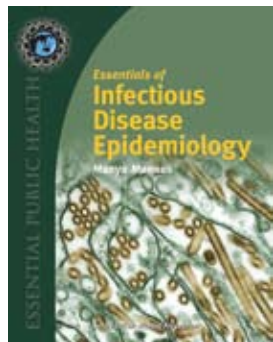
—American Journal of Epidemiology, Vol. 167, No. 8, © 2008

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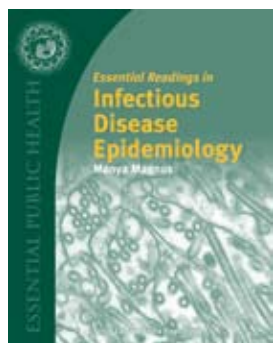
### Essentials of Infectious Disease Epidemiology

**Manya Magnus**, PhD, MPH,  
George Washington University

Infectious disease epidemiology is one of the most exciting applications of epidemiologic methodology, yet obtaining the requisite tools to engage in the field can be difficult. *Essentials of Infectious Disease Epidemiology* makes critical concepts intuitive and readily understandable.

ISBN-13: 978-0-7637-3444-2 • Paperback • 227 Pages • © 2008

⊕ Instructor Resources: IM, PP, TB, SL



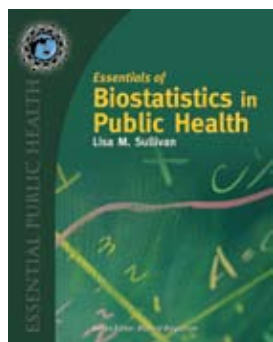
### Essential Readings in Infectious Disease Epidemiology

**Manya Magnus**, PhD, MPH, George Washington University

This collection of readings and practice exercises is designed to complement the methods training presented in the main text, *Essentials of Infectious Disease Epidemiology*. Where the parent text focuses on methods, this book provides actual examples to practice new skills. It may also be used in tandem with any introductory or intermediate epidemiology text to give the student critical skills in reading and interpretation. Each excerpt includes an introduction to the historic or cultural context; a description of the “take-home” message of the passage, excerpt, or graph. Suggested study questions or practice problems are also included.

ISBN-13: 978-0-7637-3878-5 • Paperback • 289 Pages • © 2009

⊕ Instructor Resources: PP



### Essentials of Biostatistics in Public Health

**Lisa M. Sullivan**, PhD, Boston University School of Public Health

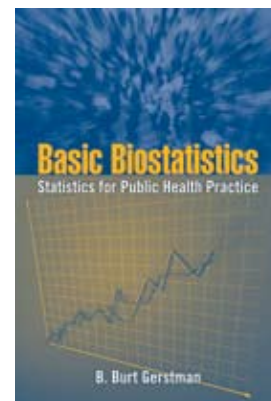
Drawing on the author's remarkable clinical experiences with the Framingham Heart Study, this book provides a fundamental and engaging background for students learning to apply and appropriately interpret biostatistical applications in the field of public health. The text uses examples that are real, relevant, and manageable in size so that students can focus on applications rather than become overwhelmed by computations. It includes sections on study design and sample size computations, as well as an introduction to multivariable statistical methods that is accessible to first-year students and those with little background in math.

Lisa Sullivan is the recipient of the 2008 ASPH/Pfizer Award for Teaching Excellence.

The text comes bundled with the workbook: *Statistical Computing Using Excel*.

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⊕ Instructor Resources: PP, TB, SL, other



### Basic Biostatistics

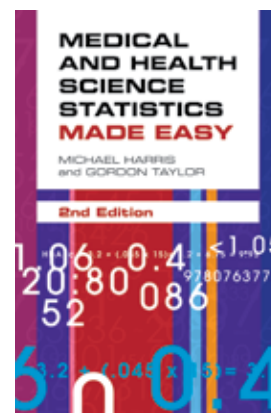
*Statistics for Public Health Practice*

**B. Burt Gerstman**, MPH, PhD, San Jose State University

With language, examples, and exercises that are accessible to students with modest mathematical backgrounds, this is the perfect introductory biostatistics text for undergraduates and graduates in various fields of public health. *Basic Biostatistics* text puts equal emphasis on exploratory and confirmatory statistical methods. Sampling, exploratory data analysis, estimation, hypothesis testing, and power and precision are covered through detailed, illustrative examples.

ISBN-13: 978-0-7637-3580-7 • Paperback • 557 Pages • © 2008

⊕ Instructor Resources: PP



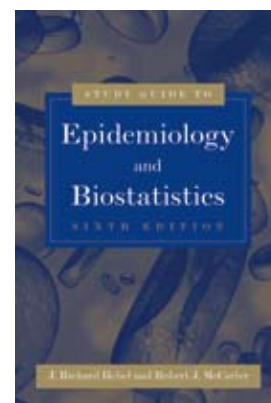
### Medical and Health Science Statistics Made Easy

*Second Edition*

**Michael Harris**  
**Gordon Taylor**

*Medical and Health Science Statistics Made Easy* provides health professionals and students with easy-to-understand explanations of key statistical techniques used in medical literature. Readers will gain a firm knowledge of medical statistics, including confidence intervals and probability values, numbers needed to treat, parametric tests, survival analysis, and more. Highlighted examples, exam tips, and items of difficulty make this an ideal primer for all medical and health-related students and professionals.

ISBN-13: 978-0-7637-7265-9 • Paperback • 115 Pages • © 2009



### Study Guide to Epidemiology and Biostatistics

*Sixth Edition*

**J. Richard Hebel**, PhD  
**Robert McCarter**, ScD

Both of the University of Maryland, School of Medicine

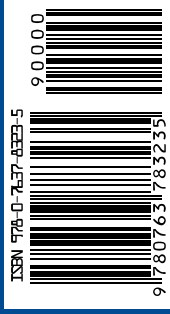
This essential guide clarifies difficult concepts such as person-time incidence rates, confounding, effect modification, *P* values, and survival analysis. Newer topics such as attributable risk, the use of odds and the application of probabilistic concepts in epidemiology, the reliability of screening tests, and longitudinal regression models are also discussed. Features objectives, study notes, chapter exercises, and practice exams.

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