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***fundamentals, twin and family epigenetic study design, and the broader role of epigenetics in answering questions on the developmental origins of health and disease. Throughout the volume, twin and family studies are employed to examine causes of epigenetic variation, the relationship between epigenetic modifications and mental illness, cancers, cardiovascular disease, diabetes, obesity, high blood pressure, and more. Emerging research methods applied in***



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*continued his research in epidemiology. Since 1999 he has also held an adjunct faculty position in the Department of Family and Preventive Medicine at the University of Utah. In 2001, he spent a sabbatical working in the Unit of Epidemiology for Cancer Prevention at the International Agency for Research on Cancer Administration, Lyon, France. He has won various awards for his research in cancer epidemiology.*

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*researchers. The text includes an overview of Bayesian statistics, a discussion of many of the methods biostatisticians frequently use, such as rates and proportions, regression models, clinical trial design, and methods for evaluating diagnostic tests. Key Features Applies a Bayesian perspective to applications in biomedical science Highlights advances in clinical trial design Goes beyond standard statistical models in the book by introducing Bayesian nonparametric methods and illustrating their uses in data analysis Emphasizes estimation of biomedically relevant quantities and assessment of the uncertainty in this estimation Provides programs in the BUGS language, with variants for JAGS and Stan, that one*

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*can use or adapt for one's own research The intended audience includes graduate students in biostatistics, epidemiology, and biomedical researchers, in general*

*Authors Gary L. Rosner is the Eli Kennerly Marshall, Jr., Professor of Oncology at the Johns Hopkins School of Medicine and Professor of Biostatistics at the Johns Hopkins Bloomberg School of Public Health.*

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*Wesley O. Johnson is professor Emeritus in the Department of Statistics at the University of California, Irvine.*

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*Education, Managing Stress and Burnout, and many other topics.*

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*organized into three parts: Part I addresses basic concepts and techniques; Part II covers analytic techniques for quantitative response variables; and Part III covers techniques for categorical responses. The Second Edition offers many new exercises as 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 with modest mathematical backgrounds, this is the perfect introductory biostatistics text for undergraduates and graduates in various fields of public health. Features: Illustrative, relevant examples and exercises incorporated throughout the book. Answers to odd-numbered exercises provided in the back of the book. (Instructors may request answers to even-numbered exercises from the publisher.*



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*Chapters are intentionally brief and limited in scope to allow 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 WinPepi.*

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*As an increasing number of colleges and universities call for an epidemiologic content into liberal arts programs. This title is designed to meet the needs of instructors teaching and overview or introductory course of epidemiology. In an easy-to-read and understandable format, the text demonstrates applied approaches in everyday life and also to specific health outcomes. Key Features: Numbers case studies Text boxes and vignettes throughout Exhibits Photographs Figures*

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*concepts of epidemiology in clear, concise writing and his inimitable style. This book provides an understanding of the key concepts in the following 3 fully updated sections: Section I: The Epidemiologic Approach to Disease and Intervention; Section II: Using Epidemiology to Identify the Causes of Disease; Section III: Applying Epidemiology to Evaluation and Policy. Clear, practical graphs and charts, cartoons, and review questions*

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*Pylori and gastric/duodenal ulcer and gastric cancer, Mammography for women in their forties) - expanded topics include Person-time. Please note: electronic rights were not granted for several images in this product. Introduces both the underlying concepts as well as the practical uses of epidemiology in public health and in clinical practice. Systemizes learning and review with study questions in each section and an answer key and index.*



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Basic epidemiology provides an introduction to the core principles and methods of epidemiology, with a special emphasis on public health applications in developing countries. This edition includes chapters on the nature and uses of epidemiology; the epidemiological approach to defining and measuring the occurrence of health-related states in populations; the strengths and limitations of epidemiological study designs; and the role of epidemiology in evaluating the effectiveness and efficiency of health

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care. The book has a particular emphasis on modifiable environmental factors and encourages the application of epidemiology to the prevention of disease and the promotion of health, including environmental and occupational health.

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Rosner minimizes the amount of mathematical formulation (algebra-based) while still giving complete explanations of all the important concepts. As in previous editions, a major strength of this book is that every new concept is developed systematically through completely worked out examples from current medical research problems. Most methods are illustrated with specific instructions as to implementation using software either from SAS, Stata, R, Excel or Minitab.

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material, and an emphasis on statistical software allows faster, more accurate calculation while putting the focus on the underlying concepts rather than the math. Students develop highly relevant skills in inferential and differential statistical techniques, equipping them with the ability to organize, summarize, and interpret large bodies of data. Suitable for both graduate and advanced undergraduate coursework, this text retains the rigor required for use as a professional reference. From the Department of Epidemiology at Johns Hopkins University and continuing in the tradition of award-winning educator and epidemiologist Dr. Leon Gordis, comes the fully revised 6th Edition of Gordis Epidemiology. This bestselling text provides a solid introduction to basic epidemiologic



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principles as well as practical applications in public health and clinical practice, highlighted by real-world examples throughout. New coverage includes expanded information on genetic epidemiology, epidemiology and public policy, and ethical and professional issues in epidemiology, providing a strong basis for understanding the role and importance of epidemiology in today's data-driven society. Covers the basic principles and concepts of epidemiology in a clear, uniquely memorable way, using a wealth of full-color figures, graphs, charts, and cartoons to help you understand and retain key information. Reflects how epidemiology is practiced today, with a new chapter organization progressing from observation and developing hypotheses to data collection and analyses.

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Maintaining the same accessible and hands-on presentation, *Introductory Biostatistics, Second Edition* continues to provide an organized introduction to basic statistical concepts commonly applied in research across the health sciences. With plenty of real-world examples, the new edition provides a practical, modern approach to the statistical topics found in the

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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 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.

Written by the best-selling author of Introduction to Epidemiology, this interactive workbook will engage your students in learning and prepare them to

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successfully evaluate public health programs and effectively communicate information that can inform public health officials and individuals. Divided into five chapters, the book covers assessment, disease etiology and investigation, clinical topics, evaluation, and communication. Definitions of statistical concepts and terms used in medical and epidemiologic literature are provided throughout. Perfect as a companion resource to any introductory Epidemiology text, Principles of Epidemiology Workbook provides an introduction to epidemiologic methodology for conducting public health

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and why we care about which one is used, measures of association, random error and bias, confounding and effect modification, and screening. Concepts are illustrated with numerous examples drawn from contemporary and historical public health issues.

With continued progress in mapping and sequencing of the human genome, and increasing recognition of the role of genes in disease etiology, there is a need for a more sophisticated approach to the investigation of the causes of complex chronic diseases. This text integrates the principles, methods and

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approaches of epidemiology and genetics in the study of disease etiology. After a brief historical overview of genetics and epidemiology and their gradual rapprochement, the authors define the central theme of genetic epidemiology as the study of the role of genetic factors and their interaction with environmental factors in the occurrence of disease in populations. They describe fundamental research strategies of genetic epidemiology including population and family studies. Among the former are the study of the distribution of genetic traits and the role of nonspecific genetic indicators (such as

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inbreeding and admixture) in the occurrence of diseases. Among the latter are the analysis of familial aggregation of disease and its causes by epidemiologic methods as well as techniques of formal genetic analysis (variance components, segregation and linkage analysis). Finally, the authors discuss the increasing applications of genetic epidemiology in preventive medicine, public health surveillance, and the emerging ethical issues regarding use of genetic information in society.

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estimation, the front-door method, instrumental variables estimation, and propensity score methods. It also covers effect-measure modification, precision variables, mediation analyses, and time-dependent confounding. Several real data examples, simulation studies, and analyses using R motivate the methods throughout. The book assumes familiarity with basic statistics and probability, regression, and R and is suitable for seniors or graduate students in statistics, biostatistics, and data science as well as PhD students in a wide variety of other disciplines, including

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epidemiology, pharmacy, the health sciences, education, and the social, economic, and behavioral sciences. Beginning with a brief history and a review of essential elements of probability and statistics, a unique feature of the book is its focus on real and simulated datasets with all binary variables to reduce complex methods down to their fundamentals. Calculus is not required, but a willingness to tackle mathematical notation, difficult concepts, and intricate logical arguments is essential. While many real data examples are included, the book also features the Double What-If Study, based on simulated

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data with known causal mechanisms, in the belief that the methods are best understood in circumstances where they are known to either succeed or fail. Datasets, R code, and solutions to odd-numbered exercises are available at [www.routledge.com](http://www.routledge.com).

Striking a balance between theory, application, and programming, *Biostatistics in Public Health Using STATA* is a user-friendly guide to applied statistical analysis in public health using STATA version 14. The book supplies public health practitioners and students with the opportunity to gain expertise in the

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application of statistics in epidemiology. Now in its Fifth Edition, *Clinical Epidemiology: The Essentials* is a comprehensive, concise, and clinically oriented introduction to the subject of epidemiology. Written by expert educators, this text introduces students to the principles of evidence-based medicine that will help them develop and apply methods of clinical observation in order to form accurate conclusions. The Fifth Edition includes more complete coverage of systematic reviews and knowledge management, as well as other key topics such as abnormality,



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diagnosis, frequency and risk, prognosis,  
treatment, prevention, chance, studying cases  
and cause.