Rothman Epidemiology An Introduction

A (LONG OVERDUE) CAUSAL APPROACH TO INTRODUCTORY EPIDEMIOLOGY Epidemiology is recognized as the science of public health, evidence-based medicine, and comparative effectiveness research. Causal inference is the theoretical foundation underlying all of the above. No introduction to epidemiology is complete without extensive discussion of causal inference; what's missing is a textbook that takes such an approach. Epidemiology by Design takes a causal approach to the foundations of traditional introductory epidemiology. Through an organizing principle of study designs, it teaches epidemiology through modern causal inference approaches, including potential outcomes, counterfactuals, and causal identification conditions. Coverage in this textbook includes: · Introduction to measures of prevalence and incidence (survival curves, risks, rates, odds) and measures of contrast (differences, ratios); the fundamentals of causal inference; and principles of diagnostic testing, screening, and surveillance · Description of three key study designs through the lens of causal inference: randomized trials, prospective observational cohort studies, and case-control studies · Discussion of internal validity (within a sample), external validity, and population impact: the foundations of an epidemiologic approach to implementation science For first-year graduate students and advanced undergraduates in epidemiology and public health fields more broadly, Epidemiology by Design offers a rigorous foundation in epidemiologic methods and an introduction to methods and thinking in causal inference. This new textbook will serve as a foundation not just for further study of the field, but as a head start on where the field is going.

The thoroughly revised and updated Third Edition of the acclaimed Modern Epidemiology reflects both the conceptual development of this evolving science and the increasingly focal role that epidemiology plays in dealing with public health and medical problems. Coauthored by three leading epidemiologists, with sixteen additional contributors, this Third Edition is the most comprehensive and cohesive text on the principles and methods of epidemiologic research. The book covers a broad range of concepts and methods, such as basic measures of disease frequency and associations, study design, field methods, threats to validity, and assessing precision. It also covers advanced topics in data analysis such as Bayesian analysis, bias analysis, and hierarchical regression. Chapters examine specific areas of research such as disease surveillance, ecologic studies, social epidemiology, infectious disease epidemiology, genetic and molecular epidemiology, nutritional epidemiology, environmental epidemiology, reproductive epidemiology, and clinical epidemiology.

This popular book is written by the award-winning teacher, Dr. Leon Gordis of the Bloomberg School of Public Health at Johns Hopkins University. He introduces the basic principles and 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 with answers reinforce the text and aid in comprehension. Utilizes new full-color format to enhance readability and clarity. Provides new and updated figures, references and concept examples to keep you absolutely current - new information has been added on Registration of Clinical Trials, Case-Cohort Design, Case-Crossover Design, and Sources and Impact of Uncertainty (disease topics include: Obesity, Asthma, Thyroid Cancer, Helicobacter 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. Illustrates textual information with clear and informative full-color illustrations, many created by the author and tested in the classroom.

The contents are not specifically nursing orientated but very neatly balanced to be of relevance to all working in the public health arena...the book is well written, the language is clear, and the concepts clearly and simply explained and easily understood Journal of Biosocial Science What are epidemiology and public health? What is the nature of public health evidence and knowledge? What strategies can be used to protect and improve health? The second edition of this bestselling book provides a multi-professional introduction to the key concepts in public health and epidemiology. It presents a broad, interactive account of contemporary public health, placing an emphasis on developing public health skills and stimulating the reader to think through the issues for themselves. The new edition features additional material on: Historical perspectives Public health skills for practice Evaluation of public health interventions The nature of evidence and public health knowledge Translating policy and evidence into practice An Introduction to Public Health and Epidemiologyis key reading for students of public health and healthcare professionals, including: nurses, doctors, community development workers and public health workers.

This is the second edition of the first book to provide a complete picture of the design, conduct and analysis of observational studies, the most common type of epidemiologic study. Stressing sample size estimation, sampling, and measurement error, the authors cover the full scope of observational studies, describing cohort studies, case-control studies, cross-sectional studies, and epidemic investigation. The use of statistical procedures is described in easy-to-understand terms.

Essentials of the U.S. Health Care System, Fifth Edition is a clear and concise distillation of the major topics covered in the best-selling Delivering Health Care in America by the same authors. Designed for undergraduate and graduate students in programs across the health disciplines, Essentials of the U.S. Health Care System is a reader-friendly, well

organized resource that covers the major characteristics, foundations, and future of the U.S. health care system. The text clarifies the complexities of health care organization and finance and presents a solid overview of how the various components fit together.

Today, the public worries about emerging diseases and rapid changes of the frequency of well known diseases like autism, diabetes and obesity making the word epidemic part of the general discussion. Epidemiology should therefore be a basic component of medical training, yet often it is undertaught or even neglected. Concise and readable while also rigorous and thorough, An Introduction to Epidemiology for Health Professionals goes beyond standard textbook content to ground the reader in scientific methods most relevant to the current health landscape and the evolution of evidence-based medicine—valuable keys to better understanding of disease process, effective prevention, and targeted treatment.

A practical guide to the most important techniques available for longitudinal data analysis, essential for non-statisticians and researchers.

Are you studying a course in veterinary epidemiology? Do you need a book that explains epidemiology in an understandable way? Dirk Pfeiffer is Professor of Veterinary Epidemiology at the Royal Veterinary College in London, UK. He has designed and taught international training courses in epidemiology all over the developed and developing world, from Australia to Vietnam. He currently provides scientific expertise to the European Food Safety Authority, the European Commission, DEFRA, the United Nation's Food and Agriculture Organization and various national governments. He has over 20 year's practical experience in the field and continues to work on some of the most high profile cases of global animal health. Dirk brings his wealth of knowledge to this concise introduction to the subject. This book covers all the core principles you need to know for your epidemiology course, including: The basic epidemiological concepts Understanding and designing epidemiological studies Measuring cause-effect relationships Statistical analysis and bias Sampling methodology Interpreting diagnostic tests The basic concepts of disease control and eradication The book will also be of use to animal health professionals who need an easy-to-understand introduction to the subject

A thorough, practical reference on the social patterns behind health outcomes Methods in Social Epidemiology provides students and professionals with a comprehensive reference for studying the social distribution and social determinants of health. Covering the theory, models, and methods used to measure and analyze these phenomena, this book serves as both an introduction to the field and a practical manual for data collection and analysis. This new second edition has been updated to reflect the field's tremendous growth in recent years, including advancements in statistical modeling and study designs. New chapters delve into genetic methods, structural cofounding, selection bias, network methods, and more, including new discussion on qualitative data collection with disadvantaged populations. Social epidemiology studies the way society's innumerable social interactions, both past and present, yields different exposures and health outcomes between individuals within populations. This book provides a thorough, detailed overview of the field, with expert guidance toward the real-world methods that fuel the latest advances. Identify, measure, and track health patterns in the population Discover how poverty, race, and socioeconomic factors become risk factors for disease Learn qualitative data collection techniques and methods of statistical analysis Examine up-to-date models, theory, and frameworks in the social epidemiology sphere As the field continues to evolve, researchers continue to identify new disease-specific risk factors and learn more about how the social system promotes and maintains well-known exposure disparities. New technology in data science and genomics allows for more rigorous investigation and analysis, while the general thinking in the field has become more targeted and attentive to causal inference and core assumptions behind effect identification. It's an exciting time to be a part of the field, and Methods in Social Epidemiology provides a solid reference for any student, researcher, or faculty in public health.

What is epidemiology? What are the causes of a new disease? How can pandemics be prevented? Epidemiology is the study of the changing patterns of disease and its main aim is to improve the health of populations. It's a vital field, central to the health of society, to the identification of causes of disease, and to their management and prevention. Epidemiology has had an impact on many areas of medicine; from discovering the relationship between tobacco smoking and lung cancer, to the origin and spread of new epidemics. However, it is often poorly understood, largely due to misrepresentations in the media. In this Very Short Introduction Rodolfo Saracci dispels some of the myths surrounding the study of epidemiology. He provides a general explanation of the principles behind clinical trials, and explains the nature of basic statistics concerning disease. He also looks at the ethical and political issues related to obtaining and using information concerning patients, and trials involving placebos. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Public Health Research Methods, edited by Greg Guest and Emily Namey, provides a comprehensive foundation for planning, executing, and monitoring public health research of all types. The book goes beyond traditional epidemiologic research designs to cover state-of-the-art, technology-based approaches emerging in the new public health landscape. Written by experts in the field, each chapter includes a description of the research method covered, examples of its application in public health, clear instructions on how to execute the method, and a discussion of emerging issues and future directions. In addition, each chapter addresses the topic in the context of global health and health disparities. Such breadth provides readers with practical tools they can use in the field, as well as a current understanding of conceptual discussions. Illustrated with engaging case studies that enhance understanding of the concepts presented, Public Health Research Methods is a comprehensive, must-have reference ideal for researchers in all sectors—government, academia, and non-profit.

Intermediate Epidemiology: Methods That Matter provides masters-level public health students with a solid foundation in the epidemiologic methods necessary for implementing successful public health programs. This book stands apart from other intermediate texts in that it focuses on conceptual learning of basic methods without relying on extensive jargon. The book uniquely uses a self-learning approach, with exercises embedded in each page to reinforce concepts and application. The book creates a bridge from student to professional with lively descriptions of career paths for the MPH-level epidemiologist. Complete chapters on program evaluation and implementation and analysis of studies are also provided. Key Features: Examines the methodological skill set unique to epidemiology at an intermediate level Provides practice problems, case studies, discussion sections, and datasets in which to practice the methods learned Offers boxed examples from sources such as peer reviewed literature, governmental resources, and lay sources"

This edition is a reprint of the second edition published in 2000 by Brooks/Cole and then Cengage Learning. Principles of Biostatistics is aimed at students in the biological and health sciences who wish to learn modern research methods. It is based on a required course offered at the Harvard School of Public Health. In addition to these graduate students, many health professionals from the Harvard medical area attend as well. The book is divided into three parts. The first five chapters deal with collections of numbers and ways in which to summarize, explore, and explain them. The next two chapters focus on probability and introduce the tools needed for the subsequent investigation of uncertainty. It is only in the eighth chapter and thereafter that the authors distinguish between populations and samples and begin

to investigate the inherent variability introduced by sampling, thus progressing to inference. Postponing the slightly more difficult concepts until a solid foundation has been established makes it easier for the reader to comprehend them. All supplements, including a manual for students with solutions for odd-numbered exercises, a manual for instructors with solutions to all exercises, and selected data sets, are available at http://www.crcpress.com/9781138593145. Marcello Pagano is Professor of Statistical Computing in the Department of Biostatistics at the Harvard School of Public Health. His research in biostatistics is on computer intensive inference and surveillance methods that involve screening methodologies, with their associated laboratory tests, and in obtaining more accurate testing results that use existing technologies. Kimberlee Gauvreau is Associate Professor in the Department of Biostatistics and Associate Professor of Pediatrics at Harvard Medical School. Dr. Gauvreau's research focuses on biostatistical issues arising in the field of pediatric cardiology. She also works on the development and validation of methods of adjustment for case mix complexity.

Under the direction of new lead editors, Leiyu Shi and James A. Johnson, the new Third Edition of Public Health Administration: Principles for Population-Based Management examines the many events, advances, and challenges in the United States and the world since the publication of the prior edition of the book.With contributions from experts in areas ranging from workforce to community-based prevention to emergency preparedness, this timely and thorough revision offers detailed, comprehensive coverage of current, relevant issues for students as well as practicing public health administrators. This edition also addresses new perspectives of evidence-based public health, systems thinking, accountable care organizations, social entrepreneurship, integrated information management, disaster preparedness and response, and social media.New to this Edition:* New team of seasoned co-editors, Leiyu Shi and James A. Johnson.* Streamlined chapters with new chapter objectives and discussion questions to enhance the classroom experience for students. * New chapters on public health policy, social determinants of health, public health systems research, social marketing, social entrepreneurship for public health, and global health.* New student Navigate Companion Website with interactive learning materials to engage students in learning.Instructor Resources: Instructor Manual, PowerPoint, Test BankStudent Resources: Companion Website

Epidemiology is a population science that underpins health improvement and health care, by exploring and establishing the pattern, frequency, trends, and causes of a disease. Concepts of Epidemiology comprehensively describes the application of core epidemiological concepts and principles toreaders interested in population health research, policy making, health service planning, health promotion, and clinical care. The book provides an overview of study designs and practical framework for the geographical analysis of diseases, including accounting for error and bias within studies. It discusses the ways in which epidemiological data are presented, explains the distinction between association and causation, aswell as relative and absolute risks, and considers the theoretical and ethical basis of epidemiology both in the past and the future. This new edition places even greater emphasis on interactive learning. Each chapter includes learning objectives, theoretical and numerical exercises, questions and answers, a summary of the key points, and exemplar panels to illustrate the concepts and methods under consideration.Written in an accessible and engaging style, with a specialized glossary to explain and de\'1fne technical terminology, Concepts of Epidemiology is ideal for postgraduate students in epidemiology, public health, and health policy. It is also perfect for clinicians, undergraduate students andresearchers in medicine, nursing and other health disciplines who wish to improve their understanding of fundamental epidemiological concepts.

Research in Medical and Biological Sciences covers the wide range of topics that a researcher must be familiar with in order to become a successful biomedical scientist. Perfect for aspiring as well as practicing professionals in the medical and biological sciences, this publication discusses a broad range of topics that are common yet not traditionally considered part of formal curricula, including philosophy of science, ethics, statistics, and grant applications. The information presented in this book also facilitates communication across conventional disciplinary boundaries, in line with the increasingly multidisciplinary nature of modern research projects. Covers the breadth of topics that a researcher must understand in order to be a successful experimental scientist Provides a broad scientific perspective that is perfect for students with various professional backgrounds Contains easily accessible, concise material about diverse methods Includes extensive online resources such as further reading suggestions, data files, statistical tables, and the StaTable application package Emphasizes the ethics and statistics of medical and biological sciences

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 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. Features new end-of-chapter questions for quick self-assessment, and a glossary of genetic terminology. Provides more than 200 additional multiple-choice epidemiology self-assessment questions online. Evolve Instructor Resources, including a downloadable image and test bank, are available to instructors through their Elsevier sales rep or via request at: https://evolve.elsevier.com

This book is specifically designed to expand reader knowledge while avoiding complex statistical formulations. Emphasizing the quantitative issues of epidemiology, this book focuses on study design, measures of association, interaction, research assessment, and other methods and practice. The Second Edition takes readers who have a good understanding of basic epidemiological principles through more rigorous discussions of concepts and methods.

Harvard Medical School, Boston. Textbook for medical and public health students.

This text for advanced undergraduate and graduate students can also serve as a reference for epidemiologists working in the field, industrial hygienists, infectious disease nurses, and staff epidemiologists. Coverage progresses from foundations, disease concepts, and epidemiological measures of heal

The new edition of this popular textbook remains a clear and practical introduction to epidemiology for students in all areas of health. By emphasising the role of epidemiology across a broad range of health monitoring and research, it gives students an understanding of the fundamental principles common to all areas of epidemiology. It also integrates the study of infectious and chronic diseases as well as public health and clinical epidemiology. Avoiding complex mathematics, it steps through the methods and potential problems underlying health data and reports, while maintaining a balance of rigour and clarity. The nuts-and-bolts of epidemiology are embedded in the wider international health perspective through recent and classical examples across different areas of health to engage students from a range of backgrounds. Concepts are illustrated with charts and graphs, and end-of-chapter questions test understanding (with answers provided). Online resources include further exercises, slides for teaching and useful weblinks.

This is the first introductory statistics text to use an estimation approach from the start to help readers understand effect sizes, confidence intervals (CIs), and meta-analysis ('the new statistics'). It is also the first text to explain the new and exciting Open Science practices, which encourage replication and enhance the trustworthiness of research. In addition, the book explains NHST fully so students can

understand published research. Numerous real research examples are used throughout. The book uses today's most effective learning strategies and promotes critical thinking, comprehension, and retention, to deepen users' understanding of statistics and modern research methods. The free ESCI (Exploratory Software for Confidence Intervals) software makes concepts visually vivid, and provides calculation and graphing facilities. The book can be used with or without ESCI. Other highlights include: - Coverage of both estimation and NHST approaches, and how to easily translate between the two. -Some exercises use ESCI to analyze data and create graphs including CIs, for best understanding of estimation methods. -Videos of the authors describing key concepts and demonstrating use of ESCI provide an engaging learning tool for traditional or flipped classrooms. -In-chapter exercises and quizzes with related commentary allow students to learn by doing, and to monitor their progress. -End-of-chapter exercises and commentary, many using real data, give practice for using the new statistics to analyze data, as well as for applying research judgment in realistic contexts. -Don't fool yourself tips help students avoid common errors. -Red Flags highlight the meaning of "significance" and what p values actually mean. -Chapter outlines, defined key terms, sidebars of key points, and summarized take-home messages provide a study tool at exam time. -http://www.routledge.com/cw/cumming offers for students: ESCI downloads; data sets; key term flashcards; tips for using SPSS for analyzing data; and videos. For instructors it offers: tips for teaching the new statistics and Open Science; additional homework exercises; assessment items; answer keys for homework and assessment items; and downloadable text images; and PowerPoint lecture slides. Intended for introduction to statistics, data analysis, or quantitative methods courses in psychology, education, and other social and health sciences, researchers interested in understanding the new statistics will also appreciate this book. No familiarity with introductory statistics is assumed.

Highly praised for its broad, practical coverage, the second edition of this popular text incorporated the major statistical models and issues relevant to epidemiological studies. Epidemiology: Study Design and Data Analysis, Third Edition continues to focus on the quantitative aspects of epidemiological research. Updated and expanded, this edition

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Designing and Conducting Health Surveys is written for students, teachers, researchers, and anyone who conducts health surveys. This third edition of the standard reference in the field draws heavily on the most recent methodological research on survey design and the rich storehouse of insights and implications provided by cognitive research on question and questionnaire design in particular. This important resource presents a total survey error framework that is a useful compass for charting the dangerous waters between systematic and random errors that inevitably accompany the survey design enterprise. In addition, three new studies based on national, international, and state and local surveys—the UNICEF Multiple Indicator Cluster Surveys, California Health Interview Survey, and National Dental Malpractice Survey—are detailed that illustrate the range of design alternatives available at each stage of developing a survey and provide a sound basis for choosing among them.

This accessible and clearly-structured book offers a comprehensive insight into the methods and principles of epidemiological study alongside an analysis of the broad context in which epidemiological work is undertaken. Chapters on sources of epidemiological data, on epidemiological study designs and on basic statistical measures for epidemiological studies are used to introduce the reader to the traditional underpinnings of epidemiological work. Attention then shifts to a wider canvas. Consideration is given to the critical reading of epidemiological research both as a way of demonstrating how different aspects of epidemiological study come together in published work and as the basis for a discussion of the centrality of epidemiological research in the development of evidence-based health care. The key facets of evidence-based health care are assessed. A more discursive and critical assessment of epidemiology is also presented in which attention is drawn to the need to develop alternative epidemiologies which draw on lay knowledge and recognise the socio-political context of factors influencing health status. The book concludes with a description of the everyday practice of epidemiology in a UK health authority context.

Epidemiology Matters offers a new approach to understanding and identifying the causes of disease -- and with it, how to prevent disease and improve human health. Utilizing visual explanations and examples, this text provides an accessible, step-by-step introduction to the fundamentals of epidemiologic study, from design to analysis. Across fourteen chapters, Epidemiology Matters teaches the individual competencies that underlie the conduct of an epidemiologic study: identifying populations; measuring exposures and health indicators; taking a sample; estimating associations between exposures and health indicators; assessing evidence for causes working together; assessing internal and external validity of results. With its consequentialist approach -- designing epidemiologic studies that aim to inform our understanding, and therefore improve public health -- Epidemiology Matters is an introductory text for the next generation of students in medicine and public health.

This User's Guide is a resource for investigators and stakeholders who develop and review observational comparative effectiveness research protocols. It explains how to (1) identify key considerations and best practices for research design; (2) build a protocol based on these standards and best practices; and (3) judge the adequacy and completeness of a protocol. Eleven chapters cover all aspects of research design, including: developing study objectives, defining and refining study questions, addressing the heterogeneity of treatment effect, characterizing exposure, selecting a comparator, defining and measuring outcomes, and identifying optimal data sources. Checklists of guidance and key considerations for protocols are provided at the end of each chapter. The User's Guide was created by researchers affiliated with 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 multiple internal and external independent reviews. More more information, please consult the Agency website: www.effectivehealthcare.ahrq.gov)

Arranged to facilitate use and highlight key concepts, this clear and concise text also includes many practical exercises, case studies, and real-world applications. Utilizing the modern biostatistical approach to studying disease, Epidemiology Kept Simple, Second Edition will provide readers with the tools to interpret epidemiological data, understand disease concepts, and prepare for board exams. The author fully explains all new terminology and minimizes the use of technical language, while emphasizing real-life practice in modern public health and biomedical research settings.

How do we understand and also assess the health care of America? Where is health care provided? What are the characteristics of those institutions which provide it? Over the short term, how are changes in health care provisions affecting the health of the population, the cost of care, and access to care?. Health Care Delivery in the United States, now in a thoroughly updated and revised 9th edition, discusses these and other core issues in the field. Under the editorship of Dr. Kovner and with the addition of Dr. James Knickman, Senior VP of Evaluation, Robert Wood Johnson Foundation, leading thinkers and practitioners in the field examine how medical knowledge creates new healthcare services. Emerging and recurrent issues from wide perspectives of health policy and public health are also discussed. With an easy to understand format and a focus on the major core challenges of the delivery of health care, this is the textbook of choice for course work in health care, the reference for administrators and policy makers, and the standard for in-service training programs.;chapter

Bias analysis quantifies the influence of systematic error on an epidemiology study's estimate of association. The fundamental methods of bias analysis in epi- miology have been well described for decades, yet are seldom applied in published presentations of epidemiologic research. More recent advances in bias analysis, such as probabilistic bias analysis, appear even more rarely. We suspect that there are both supply-side and demand-side explanations for the scarcity of bias analysis. On the demand side, journal reviewers and editors seldom request that authors address systematic error aside from listing them as limitations of their particular study. This listing is often accompanied by explanations for why the limitations should not pose much concern. On the supply side, methods for bias analysis receive little

attention in most epidemiology curriculums, are often scattered throughout textbooks or absent from them altogether, and cannot be implemented easily using standard statistical computing software. Our objective in this text is to reduce these supply-side barriers, with the hope that demand for quantitative bias analysis will follow.

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 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.

The second edition of this essential introduction to epidemiology presents the core concepts in a unified approach that aims to cut through the fog and elucidate the fundamental concepts.

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Teaching epidemiology requires skill and knowledge, combined with a clear teaching strategy and good pedagogic skills. The general advice is simple: if you are not an expert on a topic, try to enrich your background knowledge before you start teaching. Teaching Epidemiology, third edition helps you to do this, and by providing the world-expert teacher's advice on how best to structure teaching gives a unique insight in to what has worked in their hands. The book will help you plan your own tailored teaching program. The book is a guide to new teachers in the field at two levels; those teaching basic courses for undergraduates, and those teaching more advanced courses for students at postgraduate level. Each chapter provides key concepts and a list of key references. Subject specific methodology and disease specific issues (from cancer to genetic epidemiology) are dealt with in details. There is also a focused chapter on the principles and practice of computer-assisted learning.

This 5-volume reference covers the entire field of epidemiology, from statistical methods and study design, to specialized areas such as molecular epidemiology, and applications in clinical medicine and health services research. This updated edition of the Handbook of Epidemiology adds 20 new chapters on: History of Epidemiological Methods and Concepts, Cluster Randomized Trials, Internet-Based Epidemiology, Misclassification, Sensitivity Analysis and Bias Analysis, Emergency and Disaster Health Surveillance, Statistical Inference, Data Management in Epidemiology, Bayesian Methods in Epidemiology, Generalized Estimating Equations, Directed Acyclic Graphs, Life Course Epidemiology, Physical Activity Epidemiology, Radiation Epidemiology, Epidemiology of Obesity, Epidemiology of Respiratory Allergies and Asthma, Epidemiology of Dental Diseases, Epidemiology of Digestive Diseases, Epidemiology of Psychiatric Disorders, Epidemiology of Diabetes. All other chapters are extensively revised from the 1st edition. This is a reference for epidemiological researchers and graduate students in public health.

In the nearly three years since the publication of the ActivEpi companion text, the authors received several suggestions to produce an abbreviated version that narrows the discussion to the most "essential" principals and methods. A Pocket Guide to Epidemiology contains less than half as many pages as the ActivEpi Companion Text and is a stand-alone introductory text on the basic principals and concepts of epidemiology.

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