

Epidemiology

An Introduction



KENNETH J. ROTHMAN

Rothman Epidemiology An Introduction

Peter Cummings



Rothman Epidemiology An Introduction:

Epidemiology Kenneth J. Rothman, 2012-06-21 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

Epidemiology Kenneth J. Rothman, Krista F. Huybrechts, Eleanor J. Murray, 2024-10-11 Across the last fifty years epidemiology has developed into a vibrant scientific discipline that brings together the social and biological sciences incorporating everything from statistics to the philosophy of science in its aim to study and track the distribution and determinants of health events A now classic text the third edition of this essential introductory textbook gives an overview of the core concepts that form the underpinnings of epidemiology and epidemiologic research Rather than focusing on statistics or formulas Epidemiology presents the underlying epidemiologic principles and concepts in a coherent and straightforward exposition This core content is supplemented with historical notes a discussion of scientific inference details about infectious disease epidemiology and some advanced topics including how to deal with missing data the use of causal diagrams and quantitative bias analysis techniques that serve as an on ramp into further study for those who elect to pursue it By emphasizing a unifying set of ideas students will develop a strong foundation for understanding the principles of epidemiologic research

Basic Epidemiology R. Bonita, R. Beaglehole, Tord Kjellström, World Health Organization, 2006 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

Concise Epidemiologic Principles and Concepts Laurens Holmes Jr., Franklin Opara, 2013-09-11 This textbook describes the basics of research in medical clinical and biomedical settings as well as the concepts and application of epidemiologic designs in research conduct Design transcends statistical techniques and no matter how sophisticated a statistical modeling errors of design sampling cannot be corrected The authors of this textbook have presented a complex field in a very simplified and reader friendly manner with the intent that such presentation will facilitate the understanding of design process and epidemiologic thinking in clinical and biomedical research Covers these relevant topics in epidemiology Case Cohort Design Prospective Case Control Quantitative Evidence Synthesis QES Instant Cohort Design Case Crossover Design Effect Modification Interaction Epidemiologic Tree Molecular Epidemiology Health Disparities Epidemiologic Challenge Big Data mHealth Social Media 3 Ts Team Science Transdisciplinary Research Translational Research Bias Random error Confounding Systems Science Evidence Discovery Research is presented as an exercise around measurement

with measurement error inevitable in its conduct hence the inherent uncertainties of all findings in clinical and biomedical research Concise Epidemiologic Principles and Concepts covers research conceptualization namely research objectives questions hypothesis design implementation data collection analysis results and interpretation While the primary focus of epidemiology is to assess the relationship between exposure risk or predisposing factor and outcome disease or health related event causal association is presented in a simplified manner including the role of quantitative evidence synthesis meta analysis in causal inference Epidemiology has evolved over the past three decades resulting in several fields being developed This text presents in brief the perspectives and future of epidemiology in the era of the molecular basis of medicine With molecular epidemiology we are better equipped with tools to identify molecular biologic indicators of risk as well as biologic alterations in the early stages of disease *Textbook of Cancer Epidemiology* Hans-Olov Adami, David J. Hunter, Pagona Lagiou, Lorelei Mucci, 2018-01-09 Comprehensive and comprehensible but also encouraging informed by the hope and belief that informed its creation Cancer Amid sweeping advances in the science and treatment of cancer the TEXTBOOK OF CANCER EPIDEMIOLOGY offers students and professionals a definitive systematic resource for understanding the factors affecting all types of human cancer This fully updated new edition offers an overview of epidemiology's key concepts and methods as they relate to cancer including the emerging potential of biomarkers as well as site specific chapters on individual cancers natural history pathology descriptive epidemiology and etiology Taken together these chapters forge connections between established science and the ongoing evolution of this dynamic field Crisply and concisely written by an assembly of internationally recognized researchers the TEXTBOOK OF CANCER EPIDEMIOLOGY offers a superlative introduction to the subject's consensus and controversies for those embarking on their careers and a ready reference for seasoned professionals Introduction to Epidemiology Ray M. Merrill, 2024-02-15 Introduction to Epidemiology is a comprehensive reader friendly introduction to this exciting field Designed for students with minimal training in the biomedical sciences and statistics this full color text emphasizes the application of the basic principles of epidemiology according to person place and time factors in order to solve current often unexpected and serious public health problems Students will learn how to identify and describe public health problems formulate research hypotheses select appropriate research designs manage and analyze epidemiologic data interpret and apply results in preventing and controlling disease and health related events With real world examples in the form of case studies and news files in each chapter Introduction to Epidemiology is an accessible and effective approach to learning epidemiology Carefully revised throughout the Ninth Edition offers New chapters on Epidemiology Study Plan 5 and on Social Epidemiology 13

Epidemiology William A. Oleckno, 2008-01-18 Comprehensive in its coverage and suitable for graduate or upper division undergraduate students in a wide range of health related disciplines this latest offering by William A Oleckno is a full scale pedagogically rich introduction to fundamental ideas and procedures in epidemiology The text covers the major concepts

principles methods and applications of both conventional and modern epidemiology using clear language and frequent examples to illustrate important points and facilitate understanding While Oleckno provides thorough treatment of the more customary aspects of conventional and modern epidemiology he also introduces several important design and analytical issues that are only rarely approached in fundamental epidemiology textbooks Concepts as diverse as competing risks maturation futility and the prevalence and bias effects in the context of screening are just a few examples of the broad range of concepts covered in this text A comprehensive glossary contains detailed definitions of over 700 terms used throughout the 14 chapters comprising the textbook Aspiring public health professionals will appreciate the solid basis they gain from Epidemiology Concepts and Methods and will want to keep a copy close by as a valuable reference throughout their careers

Applied Epidemiologic Principles and Concepts Laurens Holmes, Jr.,2017-12-14 This book provides practical knowledge to clinicians and biomedical researchers using biological and biochemical specimen samples in order to understand health and disease processes at cellular clinical and population levels Concepts and techniques provided will help researchers design and conduct studies then translate data from bench to clinics in attempt to improve the health of patients and populations This book presents the extreme complexity of epidemiologic research in a concise manner that will address the issue of confounders thus allowing for more valid inferences and yielding results that are more reliable and accurate

Teaching Epidemiology Jorn Olsen,Rodolfo Saracci,Dimitrios Trichopoulos,2010-06-25 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

Hayes' Principles and Methods of Toxicology, Sixth Edition A. Wallace Hayes,Claire L. Kruger,2014-10-10 Hayes Principles and Methods of Toxicology has long been established as a reliable reference to the concepts methodologies and assessments integral to toxicology The new sixth edition has been revised and updated while maintaining the same high standards that have made this volume a benchmark resource in the field With new authors and new chapters that address the advances and developments since the fifth edition the book presents everything toxicologists and students need to know to understand hazards and mechanisms of toxicity enabling them to better assess risk The book begins with the four basic principles of toxicology dose matters people differ everything transforms and timing is crucial The contributors discuss various agents of toxicity including foodborne

solvents crop protection chemicals radiation and plant and animal toxins They examine various methods for defining and measuring toxicity in a host of areas including genetics carcinogenicity toxicity in major body systems and the environment This new edition contains an expanded glossary reflecting significant changes in the field New topics in this edition include The importance of dose response Systems toxicology Food safety The humane use and care of animals Neurotoxicology The comprehensive coverage and clear writing style make this volume an invaluable text for students and a one stop reference for professionals

Teaching Epidemiology Jørn Olsen, Naomi Greene, Rodolfo Saracci, Dimitrios Trichopoulos, 2015-03-26 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 The new edition of Teaching Epidemiology helps you to do this and by providing world expert teachers advice on how best to structure teaching providing a unique insight into what has worked in their hands This book will help you to tailor your own epidemiology teaching programme The fourth edition of this established text has been fully revised and updated drawing on new research findings and recently developed methods including research technologies in genetic epidemiology and method development in relation to causal analysis Analytical tools provide teachers in the field with the skills to guide students at both undergraduate and postgraduate levels Each chapter in Teaching Epidemiology comprises key concepts in epidemiology subject specific methodologies and disease specific issues to provide expert assistance in the teaching of a wide range of epidemiology courses

Concise Epidemiologic Principle and Concepts - Second Edition Laurens Holmes, Jr, 2025-03-20 Concise Epidemiologic Principles and Concepts Aberrant Epigenomic Modulations Implication We often conceive epidemiology in either simplistic or complex terms and neither of these is accurate To illustrate this the complexities in epidemiology could be achieved by considering a study to determine the correlation between serum lipid profile as total cholesterol HDL LDL triglyceride and total body fatness or obesity measured by BMI in children Two laboratories measured serum lipid profiles and one observed a correlation with BMI while the other did not Which is the reliable finding To address this question one needs to examine the context of blood drawing since fasting blood level may provide a better indicator of serum lipid Epidemiologic studies could be easily derailed given the inability to identify and address possible confounding Therefore understanding the principles and concepts used in epidemiologic studies designed and conducted to answer clinical research questions facilitates accurate and reliable findings in these areas Another similar example in a health fair setting involves geography and health termed health o graphy The risk of dying in one zip code A was 59.5 per 100 000 and in the other zip code B was 35.4 per 100 000 There is a common sense and non epidemiologic tendency to conclude that there is an increased risk of dying in zip code A To arrive at such inference one must first find out the age distribution of these two zip codes since advancing age is associated with increased mortality Indeed zip code A is comparable to the United States population while zip code B is the Mexican population These two examples are

indicative of the need to understand epidemiologic concepts such as confounding by age or effect measure modification prior to undertaking clinical research This textbook describes the basics of research in medical and clinical settings as well as the concepts and application of epidemiologic designs in research Design transcends statistical techniques and no matter how sophisticated statistical modeling errors of design sampling cannot be corrected The author of this textbook has presented a complex field in a very simplified and reader friendly manner with the intent that such a presentation will facilitate the understanding of the design process and epidemiologic thinking in clinical research Additionally this book provides a very basic explanation of how to examine the data collected for research conduct for the possibility of confounders and how to address such confounders thus disentangling such effects for reliable and valid inference Research is presented as an exercise around measurement with measurement error inevitable in its conduct hence the inherent uncertainties of all findings in clinical and medical research Concise Epidemiologic Principles and Concepts Second Edition for Clinicians covers research conceptualization namely research objectives questions hypothesis design implementation data collection analysis results and interpretation While the primary focus of epidemiology is to assess the relationship between exposure risk or predisposing factor and outcome disease or health related event the causal association is presented in a simplified manner including the role of quantitative evidence synthesis QES in causal inference Epidemiology has evolved over the past three decades resulting in several fields being developed This text presents in brief the perspectives and future of epidemiology in the era of the molecular basis of medicine 3Ts and systems science as well as Epigenomic Epidemiology Epidemiologic evidence is more reliable if conceptualized and conducted within the context of translational transdisciplinary and team science With molecular epidemiology we are better equipped with tools to identify molecular biologic indicators of risk as well as biologic alterations in the early stages of disease and with 3 Ts and systems science we are more capable of providing accurate and reliable inference on causality and outcomes research Further the author argues that unless sampling error and confounding are identified and addressed clinical research findings will remain largely inconsistent implying an inconsequential epidemiologic approach Appropriate knowledge of research conceptualization design and statistical inference is essential for conducting clinical and biomedical research This knowledge is acquired through the understanding of epidemiologic observational non experimental and experimental designs and the choice of the appropriate test statistic for statistical inference However regardless of how sophisticated the statistical technique employed for statistical inference is study conceptualization and design are the building blocks of valid scientific evidence Since clinical research is performed to improve patients care it remains relevant to assess not only the statistical significance but the clinical and biologic importance of the findings for clinical decision making in the care of an individual patient Therefore the aim of this book is to provide clinicians biomedical researchers graduate students in research methodology students of public health and all those involved in clinical biomedical research with a simplified but concise overview of the principles and practice of epidemiology

In addition the author stresses common flaws in the conduct analysis and interpretation of epidemiologic studies Valid and reliable scientific research is that which considers the following elements in arriving at the truth from the data namely biological relevance clinical importance and statistical stability and precision statistical inference based on the p value and the 90 95 and 99 percent confidence interval The interpretation of results of new research must rely on factual association or effect and the alternative explanation namely systematic error random error precision confounding and effect measure modifier Therefore unless these perspectives are disentangled the results from any given research cannot be considered reliable However even with this disentanglement all study findings remain inconclusive with some degree of uncertainty This book presents a comprehensive guide on how to conduct clinical and medical research mainly research question formulation study implementation hypothesis testing using appropriate test statistics to analyze the data and results interpretation In so doing it attempts to illustrate the basic concepts used in study conceptualization epidemiologic design and appropriate test statistics for statistical inference from the data Therefore though statistical inference is emphasized throughout the presentation in this text equal emphasis is placed on clinical relevance or importance and biological relevance in the interpretation of the study results Specifically this book describes in basic terms and concepts how to conduct clinical and medical research using epidemiologic designs The author presents epidemiology as the main profession in the trans disciplinary approach to the understanding of complex ecologic models of disease and health Clinicians even those without preliminary or infantile knowledge of epidemiologic designs could benefit immensely from what when where who and how studies are conceptualized data collected as planned with the scale of measurement of the outcome and independent variables data edited cleaned and processed prior to analysis appropriate analysis based on statistical assumptions and rationale results tabulation for scientific appraisal results interpretation and inference Unlike most epidemiologic texts this is the first book that attempts to simplify complex epidemiologic methods for users of epidemiologic research namely clinicians and allied health researchers Additionally it is rare to find a book with integrates of basic research methodology into epidemiologic designs Finally research innovation and the current challenges of epidemiology are presented in this book to reflect the currency of the materials and the approach as well as the responses to the challenges of epidemiology today namely epigenomic epidemiology in environmental and gene interaction disease determinants Epidemiology Conceptualized Epidemiologic investigation and practice are as old as the history of modern medicine It dates back to Hippocrates circa 2 400 years ago In recommending the appropriate practice of medicine Hippocrates appealed to the physicians ability to understand the role of environmental factors in predisposition to disease and health in the community During the Middle Ages and the Renaissance epidemiologic principles continued to influence the practice of medicine as demonstrated in *De Morbis Artificum* 1713 by Ramazzini and the works on scrotal cancer in relation to chimney sweeps by Percival Pott in 1775 With the works of John Snow a British physician 1854 on cholera mortality in London the era of scientific epidemiology began

By examining the distribution pattern of mortality and cholera in London Snow postulated that cholera was caused by contaminated water

Epidemiology Today

Epigenomic Epidemiology

There are several definitions of epidemiology but a practical definition is necessary for the understanding of this science and art Epidemiology is the basic science of public health The objective of this profession is to assess the distribution and determinants of disease disabilities injuries natural disasters tsunamis hurricanes tornados and earthquakes and health related events at the population level Epidemiologic investigation or research focuses on a specific population The basic issue is to assess the groups of people at higher risk women children men pregnant women teenagers whites African Americans Hispanics Asians poor affluent gay lesbians married single older individuals etc Epidemiology also examines how the frequency of the disease or the event of interest changes over time In addition epidemiology examines the variation of the disease of interest from place to place Simply descriptive epidemiology attempts to address the distribution of disease with respect to who when and where For example cancer epidemiologists attempt to describe the occurrence of prostate cancer by observing the differences in populations by age socioeconomic status occupation geographic locale race ethnicity etc Epidemiology also attempts to address the association between the disease and exposure For example why are some men at high risk for prostate cancer Does race ethnicity increase the risk for prostate cancer Simply is the association causal or spurious This process involves the effort to determine whether a factor exposure is associated with the disease outcome In the example of prostate cancer such exposure includes a high fat diet race ethnicity advancing age pesticides family history of prostate cancer and so on Whether or not the association is factual or a result of chance remains the focus of epidemiologic research The questions to be raised are as follows Is prostate cancer associated with pesticides Does pesticide cause prostate cancer Epidemiology often goes beyond disease exposure association or relationship to establish a causal association In this process of causal inference it depends on certain criteria one of which is the strength or magnitude of association leading to the recommendation of preventive measures However complete knowledge of the causal mechanism is not necessary prior to preventive measures for disease control Further findings from epidemiologic research facilitate the prioritization of health issues and the development and implementation of intervention programs for disease control and health promotion Epidemiology today reflects the application of gene and environment interaction in disease causation morbidity prognosis survival and mortality in subpopulation health outcomes The knowledge and understanding of subpopulation differentials in DNA methylation of specific genes and histone modification allows for the application of abnormal transcriptomes impaired gene expression protein synthesis dysfunctionality and abnormal cellular functionality

Nutritional Epidemiology Walter Willett, 2013

Willett s Nutritional Epidemiology has become the foundation of this field This new edition updates existing chapters and adds new ones addressing the assessment of physical activity the role of genetics in nutritional epidemiology and the interface of this field with policy

Human Nutrition - E-Book Catherine Geissler, Hilary Powers, 2010-10-04 This title is now

available under ISBN 9780702044632 This 12th edition of Human Nutrition has been fully updated by a renowned team of international experts to ensure authoritative content and a global perspective It provides a comprehensive resource for all those in the field of nutrition and other health sciences Comprehensive coverage of nutrition in one concise volume with additional material and interactive exercises on website A similar logical chapter structure throughout and textbook features in each chapter learning objectives key point summaries and text boxes facilitate learning and revision Incorporates latest research for example on organic foods and sustainable agriculture Team of contributors of international repute from 11 countries guarantees authoritative text New chapter on dietary reference values N New section on electrolytes and water balance Expanded section on HIV Website updating between editions online only chapters on food commodities e g cereals vegetables and fruit meat fish egg milk and milk products online examples of calculations and interactive exercises

Association Models in Epidemiology Hongjie Liu, 2024-08-05 Association Models in Epidemiology Study Designs Modeling Strategies and Analytic Methods is written by an epidemiologist for graduate students researchers and practitioners who will use regression techniques to analyze data It focuses on association models rather than prediction models The book targets students and working professionals who lack bona fide modeling experts but are committed to conducting appropriate regression analyses and generating valid findings from their projects This book aims to offer detailed strategies to guide them in modeling epidemiologic data Features Custom Tailored Models Discover association models specifically designed for epidemiologic study designs Epidemiologic Principles in Action Learn how to apply and translate epidemiologic principles into regression modeling techniques Model Specification Guidance Get expert guidance on model specifications to estimate exposure outcome associations accurately controlling for confounding bias Accessible Language Explore regression intricacies in user friendly language accompanied by real world examples that make learning easier Step by Step Approach Follow a straightforward step by step approach to master strategies and procedures for analysis Rich in Examples Benefit from 120 examples 77 figures 86 tables and 174 SAS outputs with annotations to enhance your understanding Book website located here Crafted for two primary audiences this text benefits graduate epidemiology students seeking to understand how epidemiologic principles inform modeling analyses and public health professionals conducting independent analyses in their work Therefore this book serves as a textbook in the classroom and as a reference book in the workplace A wealth of supporting material is available for download from the book's CRC Press webpage Upon completing this text readers should gain confidence in accurately estimating associations between risk factors and outcomes controlling confounding bias and assessing effect modification

Analysis of Incidence Rates Peter Cummings, 2019-04-16 Incidence rates are counts divided by person time mortality rates are a well known example Analysis of Incidence Rates offers a detailed discussion of the practical aspects of analyzing incidence rates Important pitfalls and areas of controversy are discussed The text is aimed at graduate students researchers and analysts in the disciplines of epidemiology biostatistics social sciences economics and

psychology Features Compares and contrasts incidence rates with risks odds and hazards Shows stratified methods including standardization inverse variance weighting and Mantel Haenszel methods Describes Poisson regression methods for adjusted rate ratios and rate differences Examines linear regression for rate differences with an emphasis on common problems Gives methods for correcting confidence intervals Illustrates problems related to collapsibility Explores extensions of count models for rates including negative binomial regression methods for clustered data and the analysis of longitudinal data Also reviews controversies and limitations Presents matched cohort methods in detail Gives marginal methods for converting adjusted rate ratios to rate differences and vice versa Demonstrates instrumental variable methods Compares Poisson regression with the Cox proportional hazards model Also introduces Royston Parmar models All data and analyses are in online Stata files which readers can download Peter Cummings is Professor Emeritus Department of Epidemiology School of Public Health University of Washington Seattle WA His research was primarily in the field of injuries He used matched cohort methods to estimate how the use of seat belts and presence of airbags were related to death in a traffic crash He is author or co author of over 100 peer reviewed articles

The Morals of Life Davide Tarizzo, 2024-08-06 A theory of biopolitical power that updates Foucault illustrating the moral implications of modern evolutionary theory In our day the individual has become a life the singular of the plural noun population From this new understanding of what it means to be human comes a new form of biopolitical power with a new set of moral rules In The Morals of Life moral philosopher Davide Tarizzo presents a theoretical framework for understanding this transformation of the old fashioned government of living beings as Michel Foucault characterized biopolitics into a new government of modular living beings as well as a template for making sense of biopolitical power that operates on the scale of populations rather than individuals Tarizzo traces population thinking the notion of modular optimization and other conceptual keystones of the current biopolitical regime an ethopolitical regime in the author's terms to their origins in twentieth century biological thought more precisely and critically evolutionary theory Neo Darwinism Tarizzo argues should be seen not only as a scientific paradigm but also as a philosophy per se because it is evolutionary theory that today provides an answer to the old philosophical question What is man This new kind of philosophy his book suggests largely determines the way in which people look at themselves and society Not only does it contribute to designing new technologies of power but it also fosters subjection to the new ethopolitical regime

Modern Epidemiologic Principles and Concepts Laurens Holmes Jr, 2025-02-22 Modern Epidemiologic Principles Concepts This Modern Epidemiologic Principles and Concepts as a clinical medicine and public health text introduces the fundamental concepts in epidemiologic investigation and demonstrates how to integrate emerging research on epigenomics into practice disease control and prevention Epidemiology has a vital strategic role in facilitating and leading evidence discovery in all aspects of human health with the intent of improving patient and population health through disease risk determinants disease control and prevention as well as health promotion practices Emphasizing what we currently understand about the

transformation of the human body and the ecosystem undergo as a result of social structure environment daily challenges and mutation remains essential in disease improvement and population health optimization This textbook explores the origin of epidemiology its relationship with medicine and public health and its role in assessing disease distribution as occurrence or frequency predisposing and risk factors treatment and management as well as disease control and management Further it explains in detail the specific epidemiologic design conduct analysis and interpretation Furthermore since epidemiology remains translational this text describes epidemiologic disciplines including although not limited to cancer epidemiology nutrition epidemiology environmental epidemiology health disparities epidemiology and genetic epidemiology as well as the elaboration of how gene and environment interaction termed epigenomic modulations as aberrant predispose to morbidity prognosis survival and mortality at an individual as well as the specific population level This 1st edition Modern Epidemiologic Principles Concepts remains novel in the application of epigenomic modulations in epidemiologic investigation of disease incidence morbidity and mortality at specific population levels for graduate education in public health clinical sciences as well as medical education This Modern Epidemiologic Principles and Concepts has filled this gap not only in the way complex designs are explained but in the simplification of statistical concepts that had rarely been explained in such a way before This text has been prepared intentionally to include rudimentary level information so as to benefit clinicians who lack a sophisticated mathematical background or previous advanced knowledge of epidemiology as well as other researchers who may want to conduct clinical research and consumers of research products who may benefit from the design process explained in this book It is with this expectation and enthusiasm that we recommend this text to clinicians in all fields of clinical biomedical and population based research The examples provided by the author to simplify designs and research methods are familiar to surgeons as well as clinicians in other specialties of medicine Though statistical inference is essential in our application of the research findings to clinical decision making regarding the care of our patients it alone without clinical relevance or importance can be very misleading or even meaningless The author has attempted to deemphasize p value in the interpretation of epidemiologic or clinical research findings by stressing the importance of effect size and confidence intervals which allow for the quantification of evidence and precision respectively For example a large study due to a large sample size as big data that minimizes variability may show a statistically significant difference when in reality the effect size is too insignificant to warrant any clinical importance In contrast the results of a small study such as those frequently seen in clinical trials or surgical research may have a large effect on clinical relevance but not be statistically significant at $p < 0.05$ Thus without considering the magnitude of the effect size with the confidence interval we tend to regard these studies as negative findings which is erroneous since the absence of evidence based simply on an arbitrary significance level of 5 percent does not necessarily mean evidence of absence and effect since clinical research results cannot be adequately interpreted without considering the biological and clinical significance of the data before the statistical stability

of the findings p value and 95 percent confidence interval since the p value as observed by the authors merely reflects the size of the study and not the measure of evidence In recommending this text it is our hope that this book will benefit clinicians research fellows clinical fellows graduate interns doctoral and postdoctoral students in medical and clinical settings nurses clinical research coordinators physical therapists and all those involved in designing and conducting clinical research and analyzing research data for statistical and clinical relevance Convincingly knowledge gained from this text will lead to improvement of patient care through well conceptualized research Therefore with the knowledge that no book is complete no matter its content or volume especially a book of this nature which is prepared to guide clinicians and others involved in clinical and medical research on the design conduct analysis and interpretation of findings we contend this book will benefit clinicians and others who are interested in applying appropriate design to research conduct analysis and interpretation of findings Finally we are optimistic that this book will bridge the gap between knowledge and practice of clinical research especially for clinicians in a busy practice who are passionate about making a difference in their patient s care through research and education

Encyclopedia of Epidemiology Sarah Boslaugh,2008 Presents information from the field of epidemiology in a less technical more accessible format Covers major topics in epidemiology from risk ratios to case control studies to mediating and moderating variables and more Relevant topics from related fields such as biostatistics and health economics are also included

Textbook of Pharmacoepidemiology Brian L. Strom,Stephen E. Kimmel,2013-05-13 The Textbook of Pharmacoepidemiology provides a streamlined text for evaluating the safety and effectiveness of medicines It includes a brief introduction to pharmacoepidemiology as well as sections on data sources methodology and applications Each chapter includes key points case studies and essential references One step resource to gain understanding of the subject of pharmacoepidemiology at an affordable price Gives a perspective on the subject from academia pharmaceutical industry and regulatory agencies Designed for students with basic knowledge of epidemiology and public health Includes many case studies to illustrate pharmacoepidemiology in real clinical setting

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