

Epidemiology Foundations The Science Of Public Health

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Research Methods - Introduction
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Epidemiology Foundations is an accessible introduction to epidemiology. This comprehensive resource covers the topic including information on its foundations, history, health and disease, descriptive epidemiology, measurement, study designs, uses, epidemics, social epidemiology, screening, community health, and global health.

Epidemiology Foundations: The Science of Public Health ...
Epidemiology Foundations: The Science of Public Health/Epidemiology and Biostatistics Book 11) eBook: Peter J. Fos: Amazon.co.uk: Kindle Store

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Epidemiology Foundations takes a social and community perspective and includes information about global diseases and epidemics. Emphasis on concepts such as population health, social determinants, and global health make this book especially interesting and accessible to those new to the subject.

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Foundations takes a social and community perspective and includes information about global diseases and epidemics. Emphasis on concepts such as population health, social determinants, and global health make this book especially interesting and accessible to those new to the subject. Each chapter is supplemented with problem-solving exercises and research assignments to aid readers in understanding its epidemiology principles. Reflecting and expanding on

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Written by Peter J. Fos—an expert in epidemiology with more than twenty years teaching experience—Epidemiology Foundations offers an ideal introduction to the theory and practice of public health epidemiology. This important text discusses both the historical perspective and future trends of epidemiology, reviews health and disease, and explains how they are measured. The book's overview of epidemiological studies shows how they are used in practice. Epidemiology Foundations takes a social and community perspective and includes information about global diseases and epidemics. Emphasis on concepts such as population health, social determinants, and global health make this book especially interesting and accessible to those new to the subject. Each chapter is supplemented with problem-solving exercises and research assignments to aid readers in understanding its epidemiology principles. Reflecting and expanding on

recommendations of the Association of American Colleges and Universities, Epidemiology Foundations is the ideal text for any course introducing epidemiology in public health.

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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 comprehensive text focuses on reasoning, critical thinking and pragmatic decision making in medicine. Based on the author's extensive experience and filled with definitions, formulae, flowcharts and checklists, this fully revised second edition continues to provide invaluable guidance to the crucial role that clinical epidemiology plays in the expanding field of evidence-based medicine. Key Features: • Considers evidence-based medicine as a universal initiative common to all health sciences and professions, and all specialties within those disciplines • Demonstrates how effective practice is reliant on proper foundations, such as clinical and fundamental epidemiology, and biostatistics • Introduces the reader to basic epidemiological methods, meta-analysis and decision analysis • Shows that structured, modern, argumentative reasoning is required to build the best possible evidence and use it in practice and research • Outlines how to make the most appropriate decisions in clinical care, disease prevention and health promotion Presenting a range of topics seldom seen in a single resource, the innovative blend of informal logic and structured evidence-based reasoning makes this book invaluable for anyone seeking broad, in-depth and readable coverage of this complex and sometimes controversial field.

Sixth edition of the hugely successful, internationally recognised textbook on global public health and epidemiology, with 3 volumes comprehensively covering the scope, methods, and practice of the discipline.

Preceded by Foundations of epidemiology / revised by David E. Lilienfeld, Paul D. Stolley. 3rd ed. 1994.

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

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.

Statistical ideas have been integral to the development of epidemiology and continue to provide the tools needed to interpret epidemiological studies. Although epidemiologists do not need a highly mathematical background in statistical theory to conduct and interpret such studies, they do need more than an encyclopedia of "recipes." Statistics for Epidemiology achieves just the right balance between the two approaches, building an intuitive understanding of the methods most important to practitioners and the skills to use them effectively. It develops the techniques for analyzing simple risk factors and disease data, with step-by-step extensions that include the use of binary regression. It covers the logistic regression model in detail and contrasts it with the Cox model for time-to-incidence data. The author uses a few simple case studies to guide readers from elementary analyses to more complex regression modeling. Following these examples through several chapters makes it easy to compare the interpretations that emerge from varying approaches. Written by one of the top biostatisticians in the field, Statistics for Epidemiology stands apart in its focus on interpretation and in the depth of understanding it provides. It lays the groundwork that all public health professionals, epidemiologists, and biostatisticians need to successfully design, conduct, and analyze epidemiological studies.

Written by the best-selling author of Introduction to Epidemiology, this interactive workbook will engage your students in learning and prepare them to 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 assessment. Readers will come away with solid foundation of basic causal theory for identifying determinants of adverse health-related states or events and will gain a better understanding of the biological principles underlying the natural course of disease.

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