

Basic Statistics And Epidemiology A Practical Guide Fourth Edition

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Basic Statistics and Epidemiology is a straightforward primer in basic statistics that emphasizes its practical use in epidemiology and public health, providing an understanding of essential topics such as study design, data analysis and statistical methods used in the execution of medical research.

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Basic Statistics and Epidemiology is a straightforward primer in basic statistics that emphasizes its practical use in epidemiology and public health, providing an understanding of essential topics such as study design, data analysis and statistical methods used in the execution of medical research. Assuming no prior knowledge, the clarity of the text and care of presentation ensure those new to, or challenged by, these topics are given a thorough introduction without being overwhelmed by ...

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Most healthcare professionals need to be able to read and understand clinical evidence, and make a judgement on what treatments are effective. To do this, they need a basic grounding in statistics and epidemiology. These are areas which many people find hard to understand, fear or find distinctly uncomfortable. However, readers of this book will find it stimulates their interest and helps them ...

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Aug 29, 2020 basic statistics and epidemiology a practical guide 3rd edition Posted By C. S. LewisLtd
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First, epidemiology is a quantitative discipline that relies on a working knowledge of probability, statistics, and sound research methods. Second, epidemiology is a method of causal reasoning based on developing and testing hypotheses grounded in such scientific fields as biology, behavioral sciences, physics, and ergonomics to explain health-related behaviors, states, and events.

~~Principles of Epidemiology | Lesson 1 | Section 1~~

This straightforward primer in basic statistics emphasizes its practical use in epidemiology and public health, providing understanding of essential topics such as study design, data analysis and statistical methods used in the execution of medical research.

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Basic Statistics and Epidemiology: A Practical Guide, Fourth Edition: Stewart, Antony: Amazon.sg: Books

~~Basic Statistics and Epidemiology: A Practical Guide ...~~

This integrated module in basic statistics and epidemiology will introduce some essential concepts from both disciplines as they are used in public health. The module also provides a foundation for the second semester module 7MHPH109 Further Epidemiology and Statistics for Public Health. On completion of this module students will be able to: Identify and use health information sources for England;

~~Basic Epidemiology & Statistics For Public Health | Study ...~~

4.0 out of 5 stars basic statistics and Epidemiology. 24 January 2011. Format: Paperback. As a basic guide you cant go wrong with this. If you have no background in statistics it is a good starting point. Type is big and subjects are brief so before you know it you will have finished the book. Whether or not you know a great deal more after ...

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Basic Statistics and Epidemiology: A Practical Guide. Basic Statistics and Epidemiology. : Antony Stewart. Radcliffe Publishing, 2010 - Medical - 200 pages. 0 Reviews. Winner, Basis of Medicine...

This straightforward primer in basic statistics emphasises its practical use in epidemiology and public health, providing an understanding of essential topics such as study design, data analysis and statistical methods used in the execution of medical research.

Most healthcare professionals need to be able to read and understand clinical evidence, and make a judgement on what treatments are effective. To do this, they need a basic grounding in statistics and epidemiology. These are areas which many people find hard to understand, fear or find distinctly uncomfortable. However, readers of this book will find it stimulates their interest and helps them understand the basics quickly and simply. It provides every doctor, nurse, health manager, researcher and student with a concise, practical guide.

This straightforward primer in basic statistics emphasizes its practical use in epidemiology and public health, providing understanding of essential topics such as study design, data analysis and statistical methods used in the execution of medical research. This new edition is substantially revised and includes entirely new material on statistical power and sample size. Clearly worded and assuming no prior knowledge, it gives full step-by-step guidance on performing statistical calculations. It contains numerous examples and exercises with detailed answers to help readers grasp the main points of these complex subjects with ease, providing doctors, nurses, health managers, researchers and students with a concise and practical guide

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.

Biostatistics and Epidemiology/A Primer for Health Professionals offers practical guidelines and gives a concise framework for research and interpretation in the field. In addition to major sections covering statistics and epidemiology, the book includes a comprehensive exploration of scientific methodology,

probability, and the clinical trial. The principles and methods described in this book are basic and apply to all medical subspecialties, psychology and education. The primer will be especially useful to public health officials and students looking for an understandable treatment of the subject.

Based on Kahn's *An Introduction to Epidemiological Methods* (Oxford, 1983), this book contains a wealth of new material, including a substantially expanded discussion of the statistical concepts and methods fundamental to epidemiology.

This self-contained account of the statistical basis of epidemiology has been written for those with a basic training in biology. No previous knowledge of the subject is assumed and mathematics is deliberately kept at a manageable level. Based on a highly successful course, this book explains the essential statistics for all epidemiologists.

Describes statistical concepts in plain English with minimal mathematical content, giving an insight into which statistics to believe - and why.

This well-organized and clearly written text has a unique focus on methods of identifying the joint effects of genes and environment on disease patterns. It follows the natural sequence of research, taking readers through the study designs and statistical analysis techniques for determining whether a trait runs in families, testing hypotheses about whether a familial tendency is due to genetic or environmental factors or both, estimating the parameters of a genetic model, localizing and ultimately isolating the responsible genes, and finally characterizing their effects in the population. Examples from the literature on the genetic epidemiology of breast and colorectal cancer, among other diseases, illustrate this process. Although the book is oriented primarily towards graduate students in epidemiology, biostatistics and human genetics, it will also serve as a comprehensive reference work for researchers. Introductory chapters on molecular biology, Mendelian genetics, epidemiology, statistics, and population genetics will help make the book accessible to those coming from one of these fields without a background in the others. It strikes a good balance between epidemiologic study designs and statistical methods of data analysis.

This book contains a Foreword by Allyson Pollock, Professor and Head, Centre for International Public Health Policy, University of Edinburgh. Healthcare students, practitioners and researchers need a sound basis for making valid statistical inferences from health data. To make the best use of statistical software, it is necessary to understand how probabilistic inference works. This book explains that, along with the various ways statistical data can be described and presented. It is designed to develop insight rather than simply the mechanical skills found in other textbooks. This book is specifically designed to underpin the concepts of statistics and epidemiology. It is practical and easy to use and is ideal for people who can feel uncomfortable with mathematics. 'Excellent. A great primer for all students and research workers engaged in learning how to use statistical ideas in public health. It sets out the core concepts and explains them clearly, using worked examples as illustration. If followed carefully, the engaged reader should be able to use the standard statistical software packages intelligently and sensitively. It will stimulate the public health student, in whatever context, and new researchers, to approach the enterprise with enhanced confidence in interpreting and coherently explaining their findings.' - Allyson Pollock, in the Foreword.

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