


Biostatistics: An Applied Introduction for the Public Health Practitioner


By Heather M. Bush



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BIOSTATISTICS: AN APPLIED INTRODUCTION FOR THE PUBLIC HEALTH PRACTITIONER is designed to help readers understand and apply essential biostatistics concepts. This innovative new book emphasizes real-world public health problems and the research questions they inspire, providing a uniquely practical introduction to the statistical concepts and methods that working professionals use during investigations. Unlike other books that assume a strong knowledge of mathematics or rely heavily on formulas, BIOSTATISTICS consistently emphasizes the public health context, making even complex material both accessible and relevant. The first chapter introduces common statistical terminology by explaining them in clear language, while subsequent chapters explore the most useful and versatile statistical methods for a variety of public health research questions. For each type of question, the author presents a range of applicable methods, from descriptions of data to simple statistical tests, generalized linear models, and multiple variable regression. The book combines step-by-step coverage of fundamental concepts with a great deal of depth and detail, making it equally useful for those new to the field of public health and experienced professionals. Readers of all backgrounds can draw on this invaluable resource to help them interpret and conduct statistical studies and support effective evidence-based practice.

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Review

"The material is well written and easy to understand. The application problems are specific to public health and this makes this a great resource for graduate students in the social sciences." Martha Perryman, Ph.D., MBA, MT(ASCP), Associate Professor, Florida A&M University, Tallahassee, FL

"The emphasis on concepts over computations is a primary strength of the manuscript...I believe this book could find a home in many classrooms in health sciences." Amy M. Cantrell, Ph.D., Clinical Assistant Professor, University of Florida, Gainesville

About the Author

Heather M. Bush, Ph.D., is an assistant professor in the Department of Biostatistics at the University of Kentucky College of Public Health. In addition to teaching in the M.P.H., Dr.P.H., and Ph.D. programs, Dr. Bush provides guest lectures in introductory biostatistics and collaborates on a variety of projects in the Colleges of Medicine, Dentistry, Public Health, Behavioral Sciences, and Health Sciences. She also has a successful track record of collaborating with, advising, and teaching researchers and other established professionals. Dr. Bush received the Golden Apple Award for teaching in the College of Public Health in 2008 and the Provost's Outstanding Teaching Award in 2009. Before joining the UK faculty, she served as a senior biostatistician for disease and product registries in the pharmaceutical industry. Dr. Bush is also a member of the steering committee and serves as the primary biostatistician for the Kentucky Women's Health Registry.

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