

Webb And Bain Essential Epidemiology

The past half-century has witnessed a dramatic increase in the scale and complexity of scientific research. The growing scale of science has been accompanied by a shift toward collaborative research, referred to as "team science." Scientific research is increasingly conducted by small teams and larger groups rather than individual investigators, but the challenges of collaboration can slow these teams' progress in achieving their scientific goals. How does a team-based approach work, and how can universities and research institutions support teams? *Enhancing the Effectiveness of Team Science* synthesizes and integrates the available research to provide guidance on assembling the science team; leadership, education and professional development for science teams and groups. It also examines institutional and organizational structures and policies to support science teams and identifies areas where further research is needed to help science teams and groups achieve their scientific and translational goals. This report offers major public policy recommendations for science research agencies and policymakers, as well as recommendations for individual scientists, disciplinary associations, and research universities. *Enhancing the Effectiveness of Team Science* will be of interest to university research administrators, team science leaders, science faculty, and graduate and postdoctoral students. *Designing Clinical Research* sets the standard for providing a practical guide to planning, tabulating, formulating, and implementing clinical research, with an easy-to-read, uncomplicated presentation. This edition incorporates current research methodology—including molecular and genetic clinical research—and offers an updated syllabus for conducting a clinical research workshop. Emphasis is on common sense as the main ingredient of good science. The book explains how to choose well-focused research questions and details the steps through all the elements of study design, data collection, quality assurance, and basic grant-writing. All chapters have been thoroughly revised, updated, and made more user-friendly.

Used across the public health field, this is the leading text in the area, focusing on the context, participants and processes of making health policy.

Can technology and innovation transform world health? Connecting undergraduate students with global problems, Rebecca Richards-Kortum examines the interplay between biomedical technology design and the medical, regulatory, economic, social and ethical issues surrounding global health. Driven by case studies, including cancer screening, imaging technologies, implantable devices and vaccines, students learn how the complexities and variation across the globe affect the design of devices and therapies. A wealth of learning features, including classroom activities, project assignments, homework problems and weblinks within the book and online, provide a full teaching package. For visionary general science and biomedical engineering courses, this book will inspire students to engage in solving global issues that face us all.

Medicine and health care generate many bioethical problems and dilemmas that are of great academic, professional and public interest. This comprehensive resource is designed as a succinct yet authoritative text and reference for clinicians, bioethicists, and advanced students seeking a better understanding of ethics problems in the clinical setting. Each chapter illustrates an ethical problem that might be encountered in everyday practice; defines the concepts at issue; examines their implications from the perspectives of ethics, law and policy; and then provides a practical resolution. There are 10 key sections presenting the most vital topics and clinically relevant areas of modern bioethics. International, interdisciplinary authorship and cross-cultural orientation ensure suitability for a worldwide audience. This book will assist all clinicians in making well-reasoned and defensible decisions by developing their awareness of ethical considerations and teaching the analytical skills to deal with them effectively.

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.

A one-stop book for anyone who wants a clear overview of the research approaches and issues concerning suicide: Learn to use the appropriate methods Improve the quality of your data Get to know state-of-the-art approaches Written by leading experts This is a one-stop book for anyone who wants an overview of the research approaches and issues concerning suicide. Leading researchers provide a comprehensive toolbox of the current best practices in suicide research, showing you how to conduct high-quality research using quantitative, qualitative, and mixed-methods in suicide prevention from a public health perspective. Other aspects that are crucial to effective suicide research are also presented, including the proper use of epidemiological measures and study designs, definitional issues, historical background, and ethical aspects. The clearly written chapters include both theoretical and practical

information along with specific examples from different areas of suicide research and prevention, and also explore essential topics such as psychological autopsies, health economics, and technological advances. This volume is ideal for researchers, students, and academics interested in suicide research, as well as policy makers, clinicians, and other practitioners.

"One Health" is defined as an approach to achieve better health outcomes for humans, animals, and the environment through collaborative and interdisciplinary efforts. The One Health framework is increasingly being applied to the management, control, and even elimination of neglected tropical diseases (NTDs), a set of infectious diseases that, collectively, affect more than one billion people across almost 150 countries. NTDs are some of the most common infections in the world; they cause substantial morbidity and mortality, particularly in regions with little access to medical care and other resources. Although there is increasing recognition of the major public health threat presented by NTDs, the ecological complexities of their transmission continue to pose challenges for their control and elimination. Some NTDs are zoonotic, meaning that they can be transmitted between humans and animals and, as such, present obstacles for public health and veterinary services in addition to concerns for wildlife conservation. Vector-borne NTDs necessitate measures that integrate consideration of the environment into public health strategies in order to sustainably reduce disease transmission. This book presents a collection of papers that explore various aspects of how the One Health concept is being applied to NTD control around the world, from genomics and diagnostic tools to improved surveillance and disease management. Encompassing research from Central America, the Caribbean, Asia, and sub-Saharan Africa, the collection emphasizes the diversity of NTDs as well as the critical importance of multisectoral collaboration for their control and elimination.

Written by Glyn O'Toole, *Communication: Core Interpersonal Skills for Healthcare Professionals 4e* is an essential guide to clear and effective communication in a multidisciplinary healthcare setting. Divided into four sections, the fourth edition challenges the reader to reflect upon their personal communication style and habits; introduces strategies and skills to enhance future practice, and encourages the development of confidence through activities, scenarios and case studies. This fully revised fourth edition will appeal to health science students and clinicians seeking to communicate more effectively in an increasingly complex healthcare environment. Increased focus on digital communication - includes overviews and tips on navigating professional and personal electronic media Individual and group activities throughout to encourage skill development, reflection and awareness of self and others An extensive suite of scenarios – practice and apply your communication skills using realistic situations and individuals that healthcare professionals encounter in clinical practice Chapter 5 The specific goals of communication for healthcare professionals: Effective conclusions of interactions and services: Negotiating closure Chapter 20 Remote telecommunication or telehealth: The seen, but not-in-the-room healthcare professional Chapter 23 - Person/s experiencing neurogenic or psychological shock Chapter 25 - A Person/s fulfilling the role of a grandparent Chapter 26 - Person/s with a spinal injury Chapter 27 - A Person/s living in a residential aged care facility

A NEW AND ESSENTIAL RESOURCE FOR THE PRACTICE OF EPIDEMIOLOGY AND PUBLIC HEALTH The CDC Field Epidemiology Manual is a definitive guide to investigating acute public health events on the ground and in real time. Assembled and written by experts from the Centers for Disease Control and Prevention as well as other leading public health agencies, it offers current and field-tested guidance for every stage of an outbreak investigation -- from identification to intervention and other core considerations along the way. Modeled after Michael Gregg's seminal book *Field Epidemiology*, this CDC manual ushers investigators through the core elements of field work, including many of the challenges inherent to outbreaks: working with multiple state and federal agencies or multinational organizations; legal considerations; and effective utilization of an incident-management approach. Additional coverage includes: · Updated guidance for new tools in field investigations, including the latest technologies for data collection and incorporating data from geographic information systems (GIS) · Tips for investigations in unique settings, including healthcare and community-congregate sites · Advice for responding to different types of outbreaks, including acute enteric disease; suspected biologic or toxic agents; and outbreaks of violence, suicide, and other forms of injury For the ever-changing public health landscape, The CDC Field Epidemiology Manual offers a new, authoritative resource for effective outbreak response to acute and emerging threats. *** Oxford University Press will donate a portion of the proceeds from this book to the CDC Foundation, an independent nonprofit and the sole entity created by Congress to mobilize philanthropic and private-sector resources to support the Centers for Disease Control and Prevention's critical health protection work. To learn more about the CDC Foundation, visit www.cdcfoundation.org.

The *Strategy of Preventive Medicine*, by Geoffrey Rose, published in 1993 and remains the classic text for anyone involved in preventive medicine. It puts forward the theory that the essential determinants of the health of society are to be found in its mass characteristics. The deviant minority can only be understood when seen in its societal context, and effective prevention requires changes which involve the population as a whole. He explores the options for prevention of both common medical and behavioural disorders, illustrating his ideas by a variety of examples ranging from heart disease to alcoholism and road accidents. This reissue brings the original text to a new generation involved in preventive medicine. Khaw and Marmot retain the original text intact, but have added their own perspective on the work. They examine what relevance Rose's ideas might have in the era of the human genome project and other major scientific advances, they consider examples of how the theory might be applied and generalised in medicine and beyond, and they discuss what implications it holds for the future. Rose's *Strategy of Preventive Medicine* will ensure that this seminal work continues to be read by future generations involved in preventive medicine.

Public health ethics is a discipline concerned with the health of the public or a population as a whole, rather than focusing on the individual. This book introduces a number of this new field's central concepts and explores the key and controversial issues arising. Topics covered include the nature of public health ethics, the concepts of disease and prevention, risk and precaution, health inequalities and justice, screening, vaccination and disease control, smoking and issues relating to the environment and public health. With insightful contributions from leading experts, *Public Health Ethics* presents thought-provoking reviews of these topics, at the same time as encouraging and identifying areas for future discussion in this emerging discipline. This is a valuable addition to the library of anyone working in the fields of public health, health policy, ethics, philosophy and social science.

Uses practical examples to teach laboratory scientists and research clinicians how to accomplish statistical tasks confidently.

First Prize in Public health in the 2017 BMA Medical Book Awards *Public Health and Epidemiology at a Glance* is a highly visual introduction to the key concepts and major themes of population health. With comprehensive coverage of all the core topics covered at medical school, it helps students understand the determinants of health and their study, from personal lifestyle choices and behaviour, to environmental, social and economic factors. This fully updated new edition features: • More coverage of audit and quality improvement techniques • Brand new sections on maternal and child health, and health of older people • New chapters on social determinants of health and guideline development • Expanded self-assessment material This accessible guide is an invaluable resource for medical and healthcare students, junior doctors,

and those preparing for a career in epidemiology and public health

The Encyclopedic Reference of Public Health presents the most important definitions, principles and general perspectives of public health, written by experts of the different fields. The work includes more than 2,500 alphabetical entries. Entries comprise review-style articles, detailed essays and short definitions. Numerous figures and tables enhance understanding of this little-understood topic. Solidly structured and inclusive, this two-volume reference is an invaluable tool for clinical scientists and practitioners in academia, health care and industry, as well as students, teachers and interested laypersons.

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.

An accessible, modern introduction to epidemiology for students of medicine and public health. It combines a strong public health perspective with modern methodological insights. It emphasises the fundamental principles common to all areas of epidemiology, and integrates public health and clinical epidemiology and the study of infectious and chronic diseases.

Taking a practical approach and supported by global examples from all areas of health, the new edition of this popular and highly commended textbook has been updated to reflect current epidemiological thinking and teaching. Based on feedback from teachers and students, material has been reordered to better suit courses and reflect the underlying logic and purpose of epidemiology. • Provides students with a rounded picture of the field by emphasizing the commonalities across different areas of epidemiology, including clinical epidemiology, and highlighting the key role of epidemiology in public health • Avoids complex mathematics by restricting this to optional material, thereby keeping the book accessible to students from non-quantitative backgrounds • Integrated and supplementary questions help students to reinforce concepts • A wealth of online material is available at www.cambridge.org/essential_epidemiology, including additional questions, advanced material for key concepts, recommendations for further reading, links to useful websites and slides for teaching, supporting both students and teachers.

Fully rewritten and updated for the cutting-edge sixth edition, Spencer's Pathology of the Lung follows in its predecessors' footsteps as the gold-standard textbook of pulmonary diseases. All recognized diseases of the lungs are discussed and illustrated with extensive, high-quality color images. Each chapter includes practical, clear and concise diagnostic features, including immunohistochemistry, molecular tests and differential diagnoses, while rare entities are discussed and illustrated in detail. This thoroughly reworked edition includes new classification schemes and the latest understanding of the pathophysiology and molecular aspects of a wide range of diseases. Non-neoplastic diseases are presented according to epidemiology, genetics, clinical manifestations, radiographic findings, pathology, cytology, laboratory findings, pathogenesis, differential diagnosis, prognosis and natural history. Neoplasms are discussed according to cell or origin with sections devoted to genetics, molecular findings and clinicopathologic correlations. Downloadable versions of all images are available on a CD-ROM packaged with the print book. Written and edited by leading experts in the field, this is an essential resource for practising and trainee pathologists.

Board Review in Preventive Medicine and Public Health prepares physicians for their initial and recertification board exams in the related specialties of preventive, occupational and aerospace medicine. Formatted in a question and answer based style that imitates material on specialty exams, each question is linked to a detailed answer. The book contains over 640 question and answer sets covering areas such as general public health, health management, health law, community health, infectious disease, clinical preventive medicine, occupational medicine, aerospace medicine, environmental medicine, correctional (prison) medicine, emergency preparedness, epidemiology and biostatistics. The book is an essential board preparation for physicians with a background in the fields of preventive medicine, occupational medicine, and aerospace medicine. It is also useful for medical students, public health students and those wishing to gain an understanding of the key points in these fields. Provides a question based format that imitates board exams in preventive, occupational and aerospace medicine Written by a specialist with board certification with the goal of elucidating the format, content and reasoning behind the board certification exam Enhances the reader's understanding of material with clear explanations of answers

Even though slightly over half of the U.S. population is female, medical research historically has neglected the health needs of women. However, over the past two decades, there have been major changes in government support of women's health research--in policies, regulations, and the organization of research efforts. To assess the impact of these changes, Congress directed the Department of Health and Human Services (HHS) to ask the IOM to examine what has been learned from that research and how well it has been put into practice as well as communicated to both providers and women. Women's Health Research finds that women's health research has contributed to significant progress over the past 20 years in lessening the burden of disease and reducing deaths from some conditions, while other conditions have seen only moderate change or even little or no change. Gaps remain, both in research areas and in the application of results to benefit women in general and across multiple population groups. Given the many and significant roles women play in our society, maintaining support for women's health research and enhancing its impact are not only in the interest of women, they are in the interest of us all.

This volume, representing a compilation of authoritative reviews on a multitude of uses of statistics in epidemiology and medical statistics written by internationally renowned experts, is addressed to statisticians working in biomedical and epidemiological fields who use statistical and quantitative methods in their work. While the use of statistics in these fields has a long and rich history, explosive growth of science in general and clinical and epidemiological sciences in particular have gone through a sea of change, spawning the development of new methods and innovative adaptations of standard methods. Since the literature is highly scattered, the Editors have undertaken this humble exercise to document a representative collection of topics of broad interest to diverse users. The volume spans a cross section of standard topics oriented toward users in the current evolving field, as well as special topics in much need which have more recent origins. This volume was prepared especially keeping the applied statisticians in mind, emphasizing applications-oriented methods and techniques, including references to appropriate software when relevant. • Contributors are internationally renowned experts in their respective areas • Addresses emerging statistical challenges in epidemiological, biomedical, and pharmaceutical research • Methods for assessing Biomarkers, analysis of competing risks • Clinical trials including sequential and group sequential, crossover designs, cluster randomized, and adaptive designs • Structural equations modelling and longitudinal data analysis

Now in its fourth edition, Essential Epidemiology is an engaging and accessible introduction to the foundations of epidemiology. It addresses the study of infectious and chronic diseases, public health and clinical epidemiology, and the role of epidemiology in a range of health monitoring and research activities. Contemporary, historical and hypothetical examples enable students to engage with content, while mathematics is kept understandable with complex mathematics housed in optional material so the book remains accessible. With over ninety questions and answers to work through, this book is an essential resource for students, practitioners and anyone else who needs to interpret health data in their studies or work. Epidemiology's most important goal is to bring rigour to the collection, analysis and interpretation of health

data to improve health on a global scale; Essential Epidemiology provides readers the tools to achieve that goal.

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

Now published in its Second Edition, the Textbook of Clinical Trials offers detailed coverage of trial methodology in diverse areas of medicine in a single comprehensive volume. Praise for the First Edition: "... very useful as an introduction to clinical research, or for those planning specific studies within therapeutic or disease areas." BRITISH JOURNAL OF SURGERY, Vol. 92, No. 2, February 2005 The book's main concept is to describe the impact of clinical trials on the practice of medicine. It separates the information by therapeutic area because the impact of clinical trials, the problems encountered, and the numbers of trials in existence vary tremendously from specialty to specialty. The sections provide a background to the disease area and general clinical trial methodology before concentrating on particular problems experienced in that area. Specific examples are used throughout to address these issues. The Textbook of Clinical Trials, Second Edition: Highlights the various ways clinical trials have influenced the practice of medicine in many therapeutic areas Describes the challenges posed by those conducting clinical trials over a range of medical specialities and allied fields Additional therapeutic areas are included in this Second Edition to fill gaps in the First Edition as the number and complexity of trials increases in this rapidly developing area Newly covered or updated in the Second Edition: general surgery, plastic surgery, aesthetic surgery, palliative care, primary care, anaesthesia and pain, transfusion, wound healing, maternal and perinatal health, early termination, organ transplants, ophthalmology, epilepsy, infectious disease, neuro-oncology, adrenal, thyroid and urological cancers, as well as a chapter on the Cochrane network An invaluable resource for pharmaceutical companies, the Textbook of Clinical Trials, Second Edition appeals to those working in contract research organizations, medical departments and in the area of public health and health science alike.

Theory of illness causation is an important issue in all biomedical sciences and solid etiological explanations are needed in order to develop therapeutic approaches in medicine and preventive interventions in public health. Until now, the literature about the theoretical underpinnings of illness causation research has been scarce and fragmented, and lacking a convenient summary. This interdisciplinary book provides a convenient and accessible distillation of the current status of research into this developing field, and adds a personal flavour to the discussion by proposing the etiological stance as a comprehensive approach to identify modifiable causes of illness. Key Features • Provides a synthesis of the epidemiological and philosophical concepts in this growing research area • Gives an accessible overview of current methods in biomedical causal metaphysics ? what is a cause of illness? ? and epistemology ? how do we identify it? • Proposes a novel approach that integrates modern epidemiological methodology and recent theories from philosophy of science Written for postgraduate students and researchers in the health and biomedical sciences, including those undertaking courses in the philosophy of medicine/science, public and global health, introduction to epidemiology, research methods, and advanced reasoning, the content will also be of interest to practicing public health workers, biomedical scientists, and physicians. About the Author Olaf Dammann is Professor and Vice Chair of Public Health and Community Medicine at Tufts University School of Medicine, Boston, Massachusetts, USA; as well as a Professor in the Department of Gynecology and Obstetrics at Hannover Medical School, Hannover, Germany. Cover image: Mask used by "Eskimo" shaman in causation of illness. Credit: Wellcome Collection. CC BY <https://creativecommons.org/licenses/by/4.0>

"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"--Provided by publisher.

Introduction to Veterinary Epidemiology provides the basics of veterinary epidemiology to the undergraduate and graduate students. The outline of the book follows the necessary steps involved in planning, conducting and analyzing an epidemiological study. These steps include establishing the objective and hypothesis, defining risk factors and outcome, selecting an appropriate study design, determining relevant measures of disease frequency, association and effect, sample size considerations, conducting the study, managing the data in databases and finally analyzing the data. The process takes off in the concepts and theories that form the basis of veterinary epidemiology and includes a solid introduction to data with respect to nature, management and analysis. The examples used to illustrate the different elements of data analysis are given in appendices as SAS code and R code to help getting started on the data analysis. This book is a collaboration between authors with solid backgrounds within veterinary, mathematical, statistical and computer sciences. They have years of experience in teaching at the undergraduate as well as graduate and postgraduate level. Each chapter has been reviewed by leading international veterinary epidemiologists. The programs and data sets can be downloaded from www.itve.dk

Covers all of the equations that candidates need to understand and be able to apply when sitting postgraduate anaesthetic examinations.

This book explores social factors such as culture, mass media, political systems, and migration that influence public health while systematically considering how we may best study these factors and use our knowledge from this study to guide public health interventions. Throughout, contributors emphasize the potential of population strategies to influence traditional risk factors associated with health and disease. Each section ends with Galea's integrative chapters, bringing the observations and conclusions from the chapters into clear, usable focus.

This book provides students with a comprehensive overview of Australian and international public health issues and contexts. It explores recent changes in the local public health field, as well as complex global public health issues, and engages with the political and cultural impacts these have on public health systems. The book aims to deepen students' understanding of the determinants of health, historical and theoretical perspectives of public health, and current health research. Through consideration of new perspectives, it introduces the latest public health discourses and explores issues of health promotion and health inequalities that inform much of the understanding of public health today. Drawing on more than 25 years' experience, Pranee Liamputtong leads a stellar author team to present this essential resource. Each chapter includes learning objectives, key words, tutorial exercises and further reading, as well as illustrative and informative case studies to aid students' understanding of key concepts.

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Essential Epidemiology An Introduction for Students and Health Professionals Cambridge University Press

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.

Succinct yet thorough, Epidemiology, Biostatistics, and Preventive Medicine, 3rd Edition brings you today's best knowledge on epidemiology, biostatistics, preventive medicine, and public health -- in one convenient source. You'll find the latest on healthcare policy and financing infectious diseases chronic disease and disease prevention technology. This text also serves as an outstanding resource for preparing for the USMLE, and the American Board of Preventive Medicine recommends it as a top review source for its core specialty examination.

This comprehensive textbook covers adult endocrinology, diabetes mellitus and paediatric endocrinology. It is specifically designed for the endocrinologist and diabetologist in training as well as for general physicians/specialists in other fields.

Uses humor and personal stories of triumph to illustrate a lifesaving prescription for people with alcohol problems to help them overcome their addiction

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