

Decision Making In Health And Medicine Integrating Evidence And Values

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Improving the Quality of Health Care for Mental and Substance-Use Conditions - Institute of Medicine 2006-03-29

Each year, more than 33 million Americans receive health care for mental or substance-use conditions, or both. Together, mental and substance-use illnesses are the leading cause of death and disability for women, the highest for men ages 15-44, and the second highest for all men. Effective treatments exist, but services are frequently fragmented and, as with general health care, there are barriers that prevent many from receiving these treatments as designed or at all. The consequences of this are serious—“for these individuals and their families; their employers and the workforce; for the nation’s economy; as well as the education, welfare, and justice systems. Improving the Quality of Health Care for Mental and Substance-Use Conditions examines the distinctive characteristics of health care for mental and substance-use conditions, including payment, benefit coverage, and regulatory issues, as well as health care organization and delivery issues. This new volume in the Quality Chasm series puts forth an agenda for improving the quality of this care based on this analysis. Patients and their families, primary health care providers, specialty mental health and substance-use treatment providers, health care organizations, health plans, purchasers of group health care, and all involved in health care for mental and substance-use conditions will benefit from this guide to achieving better care.

Integrating Health Impact Assessment with the Policy Process - Monica O'Mullane 2013-04-11

Drawing from experiences of HIA practice and research globally, this book examines how the integration of HIA with the policy process can occur. Each chapter includes learning points to assist the reader knowledge and understanding of HIA process.

Fundamentals of Clinical Data Science - Pieter Kubben 2018-12-21

This open access book comprehensively covers the fundamentals of clinical data science, focusing on data collection, modelling and clinical applications. Topics covered in the first section on data collection include: data sources, data at scale (big data), data stewardship (FAIR data) and related privacy concerns. Aspects of predictive modelling using techniques such as classification, regression or clustering, and prediction model validation will be covered in the second section. The third section covers aspects of (mobile) clinical decision support systems, operational excellence and value-based healthcare. Fundamentals of Clinical Data Science is an essential resource for healthcare professionals and IT consultants intending to develop and refine their skills in personalized medicine, using solutions based on large datasets from electronic health records or telemonitoring programmes. The book’s promise is “no math, no code” and will explain the topics in a style that is optimized for a healthcare audience.

The Hospital and Clinic Improvement Handbook - Boaz Ronen 2018

The essential healthcare guide to doing more with existing resources The healthcare industry faces foundational challenges to how it sustains itself. As the gap between cost and revenue continues to widen, and as cost-effectiveness remains an elusive imperative, the question persists: how can healthcare organizations do more with the same resources? The Hospital and Clinic Improvement Handbook is a practical guide to how operations management -- in particular Lean and the Theory of Constraints (TOC) -- can rapidly advance value and performance in any healthcare organization. Utilizing a systems approach that will be relevant for healthcare managers and executives, it unpacks and demystifies concepts such as performance measures, operations, quality, cost accounting, pricing, and value enhancement, all as they relate to eliminating waste and non-value-adding activities. Enriched with dozens

of examples and building on the authors' experience teaching and refining these concepts for healthcare, this text is an essential guide for executives and managers across the industry.

Decision Making in Health and Medicine - M. G. Myriam Hunink 2014-10-16

A guide for everyone involved in medical decision making to plot a clear course through complex and conflicting benefits and risks.

Venous Thromboembolism in Advanced Disease - Simon I R Noble 2009

This book provides an evidence-based, clinical guide to treating venous thromboembolism in palliative care, highlighting the uncertainties faced by clinicians when confronted with this common but complex issue, and dealing with both cancer and non-malignant diseases.

Helping people share decision making - 2012

How Doctors Think - Jerome Groopman 2008-03-12

On average, a physician will interrupt a patient describing her symptoms within eighteen seconds. In that short time, many doctors decide on the likely diagnosis and best treatment. Often, decisions made this way are correct, but at crucial moments they can also be wrong—with catastrophic consequences. In this myth-shattering book, Jerome Groopman pinpoints the forces and thought processes behind the decisions doctors make. Groopman explores why doctors err and shows when and how they can—with our help—avoid snap judgments, embrace uncertainty, communicate effectively, and deploy other skills that can profoundly impact our health. This book is the first to describe in detail the warning signs of erroneous medical thinking and reveal how new technologies may actually hinder accurate diagnoses. How Doctors Think offers direct, intelligent questions patients can ask their doctors to help them get back on track. Groopman draws on a wealth of research, extensive interviews with some of the country’s best doctors, and his own experiences as a doctor and as a patient. He has learned many of the lessons in this book the hard way, from his own mistakes and from errors his doctors made in treating his own debilitating medical problems. How Doctors Think reveals a profound new view of twenty-first-century medical practice, giving doctors and patients the vital information they need to make better judgments together.

Decision Making in Health and Medicine - M. G. Myriam Hunink 2014-10-16

Decision making in health care involves consideration of a complex set of diagnostic, therapeutic and prognostic uncertainties. Medical therapies have side effects, surgical interventions may lead to complications, and diagnostic tests can produce misleading results. Furthermore, patient values and service costs must be considered. Decisions in clinical and health policy require careful weighing of risks and benefits and are commonly a trade-off of competing objectives: maximizing quality of life vs maximizing life expectancy vs minimizing the resources required. This text takes a proactive, systematic and rational approach to medical decision making. It covers decision trees, Bayesian revision, receiver operating characteristic curves, and cost-effectiveness analysis, as well as advanced topics such as Markov models, microsimulation, probabilistic sensitivity analysis and value of information analysis. It provides an essential resource for trainees and researchers involved in medical decision modelling, evidence-based medicine, clinical epidemiology, comparative effectiveness, public health, health economics, and health technology assessment.

Clinical Decision Analysis - Milton C. Weinstein 1980

Disease Control Priorities in Developing Countries - Dean T. Jamison

2006-04-02

Based on careful analysis of burden of disease and the costs of interventions, this second edition of 'Disease Control Priorities in Developing Countries, 2nd edition' highlights achievable priorities; measures progress toward providing efficient, equitable care; promotes cost-effective interventions to targeted populations; and encourages integrated efforts to optimize health. Nearly 500 experts - scientists, epidemiologists, health economists, academicians, and public health practitioners - from around the world contributed to the data sources and methodologies, and identified challenges and priorities, resulting in this integrated, comprehensive reference volume on the state of health in developing countries.

Optimizing Strategies for Clinical Decision Support - James E. Tcheng 2017

The result of a collaboration between the National Academy of Medicine (NAM) and the Office of the National Coordinator for Health Information Technology, this NAM Special Publication summarizes and builds upon a meeting series in which a multistakeholder group of experts discussed the potential of clinical decision support (CDS) to transform care delivery by ameliorating the burden that expanding clinical knowledge and care and choice complexity place on the finite time and attention of clinicians, patients, and members of the care team. This summary also includes highlights from discussions about addressing the barriers to realizing the full benefits of CDS-facilitated value improvement. *Optimizing Strategies for Clinical Decision Support: Summary of Meeting Series* identifies the need for a continuously learning health system driven by the seamless and rapid generation, processing, and practical application of the best available evidence for clinical decision-making, and lays out a series of actionable, collaborative next steps to optimize strategies for adoption and use of clinical decision support.

Decision Making for Enhanced Health Security - Gilberto Montibeller 2022-06-06

Health threats pose significant dangers to humankind and form a major source of human suffering and sorrow. Responsible leadership and reasoned decision making can significantly improve the arenas that are affected by health threats, through establishing a better allocation of very scarce resources for building health capabilities and for increasing health preparedness, responsiveness and resilience. This book examines how public health leaders can use the cutting-edge research from Decision Sciences to better manage emerging and re-emerging health threats, with a focus on enhancing health security. While these decisions must be informed by the best available evidence, they must also address competing priorities and key uncertainties and must mitigate critical risks, albeit in a cost-effective manner which seeks to maximize societal value. This is a book about how decisions on health security can be improved, both in terms of the content that is utilized in a health decision analysis and the decision processes that are employed in reaching a decision. This decision-focused perspective can help public health leaders and public health experts to increase the health preparedness of health systems, the task of which involves improving health capabilities, increasing the robustness of health systems against health threats, as well as strengthening health resilience and the responsiveness of these systems against disease outbreaks.

Clinical Reasoning in the Health Professions E-Book - Joy Higgs 2008-02-18

Clinical reasoning is the foundation of professional clinical practice. Totally revised and updated, this book continues to provide the essential text on the theoretical basis of clinical reasoning in the health professions and examines strategies for assisting learners, scholars and clinicians develop their reasoning expertise. Key chapters revised and updated nature of clinical reasoning sections have been expanded increase in emphasis on collaborative reasoning core model of clinical reasoning has been revised and updated

Delivering High-Quality Cancer Care - Committee on Improving the Quality of Cancer Care: Addressing the Challenges of an Aging Population 2014-01-10

In the United States, approximately 14 million people have had cancer and more than 1.6 million new cases are diagnosed each year. However, more than a decade after the Institute of Medicine (IOM) first studied the quality of cancer care, the barriers to achieving excellent care for all cancer patients remain daunting. Care often is not patient-centered, many patients do not receive palliative care to manage their symptoms and side effects from treatment, and decisions about care often are not based on the latest scientific evidence. The cost of cancer care also is rising faster than many sectors of medicine--having increased to \$125

billion in 2010 from \$72 billion in 2004--and is projected to reach \$173 billion by 2020. Rising costs are making cancer care less affordable for patients and their families and are creating disparities in patients' access to high-quality cancer care. There also are growing shortages of health professionals skilled in providing cancer care, and the number of adults age 65 and older--the group most susceptible to cancer--is expected to double by 2030, contributing to a 45 percent increase in the number of people developing cancer. The current care delivery system is poorly prepared to address the care needs of this population, which are complex due to altered physiology, functional and cognitive impairment, multiple coexisting diseases, increased side effects from treatment, and greater need for social support. *Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis* presents a conceptual framework for improving the quality of cancer care. This study proposes improvements to six interconnected components of care: (1) engaged patients; (2) an adequately staffed, trained, and coordinated workforce; (3) evidence-based care; (4) learning health care information technology (IT); (5) translation of evidence into clinical practice, quality measurement and performance improvement; and (6) accessible and affordable care. This report recommends changes across the board in these areas to improve the quality of care. *Delivering High-Quality Cancer Care: Charting a New Course for a System in Crisis* provides information for cancer care teams, patients and their families, researchers, quality metrics developers, and payers, as well as HHS, other federal agencies, and industry to reevaluate their current roles and responsibilities in cancer care and work together to develop a higher quality care delivery system. By working toward this shared goal, the cancer care community can improve the quality of life and outcomes for people facing a cancer diagnosis.

Shared Decision Making in Health Care - Glyn Elwyn 2016

First edition published as: *Evidence-based patient choice..* Oxford: Oxford University Press, 2001.

Epidemiology, Biostatistics and Preventive Medicine - James F. Jekel 2007-06-26

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. Discusses the financial concerns and the use and limitations of screening in the prevention of symptomatic disease. Emphasizes the application of epidemiologic and biostatistical concepts to everyday clinical problem solving and decision making. Showcases important concepts and calculations inside quick-reference boxes. Presents abundant illustrations and well-organized tables to clarify and summarize complex concepts. Includes 350 USMLE-style questions and answers, complete with detailed explanations about why various choices are correct or incorrect. Includes the latest information on Bovine Spongiform Encephalopathy (BSE) · SARS · avian form of H5N1 influenza · the obesity epidemic · and more.

Supported Decision-Making - Karrie A. Shogren 2018-11-30

The United Nations Convention on the Rights of Persons with Disabilities (CRPD) recognized that people with disabilities should have the right to exercise their legal capacity and identified 'supported decision-making' as a means by which people with disabilities can be directly involved in decisions that impact their lives. Offering an overview of its emergence in the disability field and highlighting emerging research, theory, and practice from legal, psychology, education, and health fields, this volume provides a much-needed theoretical and evidence base for supported decision-making. Evidence and strengths-based frameworks for understanding disability, supports, and their roles in promoting supported decision-making are synthesized. The authors describe the application of a social-ecological approach to supported decision-making, and focus on implications for building systems of supports based on current environmental demands. This volume introduces and explains empirical research on critical elements of supported decision-making and the applications of supported decision-making that enhance outcomes, including self-determination and quality of life.

Computerization and the Politics of Medical Decision-making - Todd M. Shuman 1986

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.

An Introduction to Medical Decision-Making - Jonathan S. Vordermark II 2019-10-16

This volume presents novel concepts to help physicians and health care providers better understand the thought processes and approaches used in clinical decision-making and how we develop those skills as we transition from being a medical student to post-graduate trainee to independent practitioner. Approaches presented range from simple rules of thumb, pattern recognition, and heuristics, to more formulaic methods such as standard operating procedures, checklists, evidence-based medicine, mathematical modeling, and statistics. Ways to recognize and manage errors and how our decision-making can be improved, are also discussed. An Introduction to Medical Decision-Making presents several innovative techniques to allow the reader to use the principles presented and integrate the ethical, humanistic and social aspects of decision-making with the pragmatic and knowledge-based aspects of clinical medicine. It also highlights how our thinking processes, emotions, and biases affect decision-making. This invaluable resource will allow students and physicians to evaluate and critically discuss their decisions objectively to become more efficient and effective, and maximize the quality of care they provide.

Preference Measurement in Health - 2014-08-18

It is fundamental to measure the individual value of different medical interventions in order to prioritise resources. Preference-based approaches can produce measures that allow comparisons of such values. This volume covers altruism within families, differences in risk attitudes, and estimation of health benefits of food safety.

Integrating Social Care into the Delivery of Health Care - National Academies of Sciences, Engineering, and Medicine 2019-12-30

Integrating Social Care into the Delivery of Health Care: Moving Upstream to Improve the Nation's Health was released in September 2019, before the World Health Organization declared COVID-19 a global pandemic in March 2020. Improving social conditions remains critical to improving health outcomes, and integrating social care into health care delivery is more relevant than ever in the context of the pandemic and increased strains placed on the U.S. health care system. The report and its related products ultimately aim to help improve health and health equity, during COVID-19 and beyond. The consistent and compelling evidence on how social determinants shape health has led to a growing recognition throughout the health care sector that improving health and health equity is likely to depend "at least in part" on mitigating adverse social determinants. This recognition has been bolstered by a shift in the health care sector towards value-based payment, which incentivizes improved health outcomes for persons and populations rather than service delivery alone. The combined result of these changes has been a growing emphasis on health care systems addressing patients' social risk factors and social needs with the aim of improving health outcomes. This may involve health care systems linking individual patients with government and community social services, but important questions need to be answered about when and how health care systems should integrate social care into their practices and what kinds of infrastructure are required to facilitate such activities. *Integrating Social Care into the Delivery of Health Care: Moving Upstream to Improve the Nation's Health* examines the potential for integrating services addressing social needs and the social determinants of health into the delivery of health care to achieve better health outcomes. This report assesses approaches to social care integration currently being taken by health care providers and systems, and new or emerging approaches and opportunities; current roles in such integration by different disciplines and organizations, and new or emerging roles and types of providers; and current and emerging efforts to design health care systems to improve the nation's health and reduce health inequities.

Evidence Synthesis for Decision Making in Healthcare - Nicky J. Welton 2012-05-29

In the evaluation of healthcare, rigorous methods of quantitative assessment are necessary to establish interventions that are both effective and cost-effective. Usually a single study will not fully address these issues and it is desirable to synthesise evidence from multiple sources. This book aims to provide a practical guide to evidence synthesis for the purpose of decision making, starting with a simple single parameter model, where all studies estimate the same quantity

(pairwise meta-analysis) and progressing to more complex multi-parameter structures (including meta-regression, mixed treatment comparisons, Markov models of disease progression, and epidemiology models). A comprehensive, coherent framework is adopted and estimated using Bayesian methods. Key features: A coherent approach to evidence synthesis from multiple sources. Focus is given to Bayesian methods for evidence synthesis that can be integrated within cost-effectiveness analyses in a probabilistic framework using Markov Chain Monte Carlo simulation. Provides methods to statistically combine evidence from a range of evidence structures. Emphasizes the importance of model critique and checking for evidence consistency. Presents numerous worked examples, exercises and solutions drawn from a variety of medical disciplines throughout the book. WinBUGS code is provided for all examples. *Evidence Synthesis for Decision Making in Healthcare* is intended for health economists, decision modelers, statisticians and others involved in evidence synthesis, health technology assessment, and economic evaluation of health technologies.

Why We Revolt - Victor Montori 2020-09-29

The Mayo Clinic physician and founder of The Patient Revolution offers a "thoroughly convincing. . . call to action for medical industry reform" (Kirkus). Winner of the 2018 PenCraft Award for Literary Excellence, *Why We Revolt* exposes the corruption and negligence that are endemic in America's healthcare system—and offers a blueprint for revolutionizing patient care across the country. Through a series of essays and first-hand accounts, Dr. Victor M. Montori demonstrates how the system has been increasingly exploited and industrialized, putting profit before patients. As costs soar, the United States continues to fall behind other countries on patient outcomes. Offering concrete, direct actions we can take to bring positive change to the healthcare system, *Why We Revolt* is an inspiring call-to-action for physicians, policymakers, and patients alike. Dr. Montori shows how we can work together to create a system that offers tailored healthcare in a kind and careful way. All proceeds from *Why We Revolt* go directly to Patient Revolution, a non-profit organization founded by Dr. Montori that empowers patients, caregivers, community advocates, and clinicians to rebuild our healthcare system.

EBOOK: Analytical Models for Decision-Making - Colin Sanderson 2006-03-16

Health care systems are complex and, as a result, it is often unclear what the effects of changes in policy or service provision might be. At the same time, resources for health care tend to be in short supply, which means that public health practitioners have to make difficult decisions. This book describes the quantitative and qualitative methods that can help decision-makers to structure and clarify difficult problems and to explore the implications of pursuing different options. The accompanying CD ROM provides the opportunity to try out some of the proposed solutions. The book examines: Models and decision-making in health care Methods for clarifying complex decisions Models for service planning and resource allocation Modelling for evaluating changes in systems Series Editors: Rosalind Plowman and Nicki Thorogood.

Network Meta-Analysis for Decision-Making - Sofia Dias 2018-03-19

A practical guide to network meta-analysis with examples and code In the evaluation of healthcare, rigorous methods of quantitative assessment are necessary to establish which interventions are effective and cost-effective. Often a single study will not provide the answers and it is desirable to synthesise evidence from multiple sources, usually randomised controlled trials. This book takes an approach to evidence synthesis that is specifically intended for decision making when there are two or more treatment alternatives being evaluated, and assumes that the purpose of every synthesis is to answer the question "for this pre-identified population of patients, which treatment is 'best'?" A comprehensive, coherent framework for network meta-analysis (mixed treatment comparisons) is adopted and estimated using Bayesian Markov Chain Monte Carlo methods implemented in the freely available software WinBUGS. Each chapter contains worked examples, exercises, solutions and code that may be adapted by readers to apply to their own analyses. This book can be used as an introduction to evidence synthesis and network meta-analysis, its key properties and policy implications. Examples and advanced methods are also presented for the more experienced reader. Methods used throughout this book can be applied consistently: model critique and checking for evidence consistency are emphasised. Methods are based on technical support documents produced for NICE Decision Support Unit, which support the NICE Methods of Technology Appraisal. Code presented is also the basis for the code used by the ISPOR Task Force on Indirect Comparisons.

Includes extensive carefully worked examples, with thorough explanations of how to set out data for use in WinBUGS and how to interpret the output. Network Meta-Analysis for Decision Making will be of interest to decision makers, medical statisticians, health economists, and anyone involved in Health Technology Assessment including the pharmaceutical industry.

Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering - Management Association, Information Resources 2021-05-28

Decision support systems (DSS) are widely touted for their effectiveness in aiding decision making, particularly across a wide and diverse range of industries including healthcare, business, and engineering applications. The concepts, principles, and theories of enhanced decision making are essential points of research as well as the exact methods, tools, and technologies being implemented in these industries. From both a standpoint of DSS interfaces, namely the design and development of these technologies, along with the implementations, including experiences and utilization of these tools, one can get a better sense of how exactly DSS has changed the face of decision making and management in multi-industry applications. Furthermore, the evaluation of the impact of these technologies is essential in moving forward in the future. The Research Anthology on Decision Support Systems and Decision Management in Healthcare, Business, and Engineering explores how decision support systems have been developed and implemented across diverse industries through perspectives on the technology, the utilizations of these tools, and from a decision management standpoint. The chapters will cover not only the interfaces, implementations, and functionality of these tools, but also the overall impacts they have had on the specific industries mentioned. This book also evaluates the effectiveness along with benefits and challenges of using DSS as well as the outlook for the future. This book is ideal for decision makers, IT consultants and specialists, software developers, design professionals, academicians, policymakers, researchers, professionals, and students interested in how DSS is being used in different industries.

Guide to Health Informatics - Enrico Coiera 2015-03-06

This essential text provides a readable yet sophisticated overview of the basic concepts of information technologies as they apply in healthcare. Spanning areas as diverse as the electronic medical record, searching, protocols, and communications as well as the Internet, Enrico Coiera has succeeded in making this vast and complex area accessible an

Life and Death Decision Making - Baruch A. Brody 1988

Integrating theory with realistic case studies, this book examines the practical application of moral theory in clinical decision-making. With forty composite cases based on actual clinical experiences, the author describes key moral problems raised by modern medicine. He then demonstrates how these dilemmas can be resolved using a problem-solving framework termed pluralistic casuistry. This approach is pluralistic in that it accepts the relevance of many different moral grounds, drawn from different traditional moral theories, each of which may seem self-contained and hence in conflict with other claims. Consequently, the author stresses the need to achieve a synthesis of these traditional moral theories, rather than treating them as competitors. His approach is casuistical in the sense that it considers the important differences between the cases at issue and applies the different moral appeals in different ways. The richly detailed case studies will challenge readers, clarify the ethical issues involved, and indicate how theory and practice can be integrated. Containing a multiplicity of factors faced in clinical crises, they are ideal for group discussions concerning the ways in which theory relates to actual life-or-death situations.

Emergency Medicine Decision Making: Critical Issues in Chaotic Environments - Scott Weingart 2006

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Evidence-Based Emergency Medicine, a highly readable primer, will be the first book to teach EBM principles and their clinical application with the unique mindset and needs of the Emergency Medicine physician in mind This one-of-a-kind guide discusses the search, evaluation, and proper use of the literature of emergency medicine, from textbooks to trials and qualitative studies to systematic reviews. It reveals how and where to find the quality information needed when seconds count. Fully exploring medical decision making using cognitive psychology, Bayesian analysis and more, it shows how to apply the knowledge they provide to achieve superior diagnosis and management of ED patients. The avoidance of

medical errors is emphasized through the precepts of critical thinking and heuristics.

Handbook of Applied Health Economics in Vaccines - David Bishai 2022-11-18

Applying economics to vaccine delivery can save money and lives. With better analytical knowledge and better skills in decision-analysis, decision makers can improve vaccination program sustainability, efficiency, and financial predictability, leading to overall improvement in health system allocative efficiency. This handbook is a practical and accessible guide to the theory, methods, and research of health economics applied to immunization, and an essential and timely addition to the series of Handbooks in Health Economic Evaluation. By bringing these principles of vaccines and economics together, it is a valuable resource for public health workers, healthcare practitioners, educators, students, researchers, decision makers, and all those working in the immunization field. The handbook guides readers through this critical subject, whether they are already versed in economics or new to the subject. The handbook includes practical examples relevant to high-, middle-, and low-income settings. It offers background information on vaccines and the vaccine landscape, with relevant reviews of vaccine financing, vaccine adoption, and scaling up vaccine delivery. The handbook's main chapters are on principles, costing, economic evaluation, advanced methods, and financing and resource tracking. Summarizing both theory and applications, it is suitable for self-learning and for training and courses. Links to online exercises and resources will help readers learn and apply key insights.

Cost-Effectiveness in Health and Medicine - Peter J. Neumann 2016-10-03

A COMPLETE UPDATE AND REVISION OF THE CLASSIC TEXT "At last, a manual of operations for comparing the cost-effectiveness of a preventive service with a treatment intervention." --American Journal of Preventive Medicine Twenty years after the first edition of COST-EFFECTIVENESS IN HEALTH AND MEDICINE established the practical benchmark for cost-effectiveness analysis, this completely revised edition of the classic text provides an essential resource to a new generation of practitioners, students, researchers, and policymakers. Produced by the Second Panel on Cost-Effectiveness in Health and Medicine--a team of 13 experts from fields including decision science, economics, ethics, psychology, and medicine--this new edition is a comprehensive guide to the use of cost-effectiveness analysis as an evaluative tool at the institutional and policy levels. As health care systems face increasing pressure to derive maximum value from expenditures, the guidelines in this new text represent not just the best information available, but a vital guide to health care decision-making in a challenging new era. Completely revised and enriched with examples and expanded coverage, this second edition of COST-EFFECTIVENESS IN HEALTH AND MEDICINE builds on its predecessor's excellence, offering required reading for both analysts and decision makers.

Achieving Person-Centred Health Systems - Ellen Nolte 2020-06-30

The idea of person-centred health systems is widely advocated in political and policy declarations to better address health system challenges. A person-centred approach is advocated on political, ethical and instrumental grounds and believed to benefit service users, health professionals and the health system more broadly. However, there is continuing debate about the strategies that are available and effective to promote and implement 'person-centred' approaches. This book brings together the world's leading experts in the field to present the evidence base and analyse current challenges and issues. It examines 'person-centredness' from the different roles people take in health systems, as individual service users, care managers, taxpayers or active citizens. The evidence presented will not only provide invaluable policy advice to practitioners and policymakers working on the design and implementation of person-centred health systems but will also be an excellent resource for academics and graduate students researching health systems in Europe.

The Evidence Base of Clinical Diagnosis - J. André Knottnerus 2011-08-26

This unique book presents a framework for the strategy and methodology of diagnostic research, in relation to its relevance for practice. Now in its second edition The Evidence Base of Clinical Diagnosis has been fully revised and extended with new chapters covering the STARD guidelines (STAndards for the Reporting of Diagnostic accuracy studies) and the multivariable analysis of diagnostic data. With contributions from leading international experts in evidence-based medicine, this book is an indispensable guide on how to conduct and interpret studies in clinical

diagnosis. It will serve as a valuable resource for all investigators who want to embark on diagnostic research and for clinicians, practitioners and students who want to learn more about its principles and the relevant methodological options available.

Patient Care Under Uncertainty - Charles F. Manski 2019-09-10

For the past few years, the author, a renowned economist, has been applying the statistical tools of economics to decision making under uncertainty in the context of patient health status and response to treatment. He shows how statistical imprecision and identification problems affect empirical research in the patient-care sphere.

Crossing the Quality Chasm - Institute of Medicine 2001-08-19

Second in a series of publications from the Institute of Medicine's Quality of Health Care in America project Today's health care providers have more research findings and more technology available to them than ever before. Yet recent reports have raised serious doubts about the quality of health care in America. Crossing the Quality Chasm makes an urgent call for fundamental change to close the quality gap. This book recommends a sweeping redesign of the American health care system and provides overarching principles for specific direction for policymakers, health care leaders, clinicians, regulators, purchasers, and others. In this comprehensive volume the committee offers: A set of performance expectations for the 21st century health care system. A set of 10 new rules to guide patient-clinician relationships. A suggested organizing framework to better align the incentives inherent in payment and accountability with improvements in quality. Key steps to promote evidence-based practice and strengthen clinical information systems. Analyzing health care organizations as complex systems, Crossing the Quality Chasm also documents the causes of the quality gap, identifies current practices that impede quality care, and explores how systems approaches can be used to implement change.

Routledge International Handbook of Advanced Quantitative Methods in Nursing Research - Susan J. Henly 2015-07-24

Designed to support global development of nursing science, the Routledge International Handbook of Advanced Quantitative Methods in Nursing Research provides a new, comprehensive, and authoritative treatment of advanced quantitative methods for nursing research. Incorporating past approaches that have served as the foundation for the science, this cutting edge book also explores emerging approaches that

will shape its future. Divided into six parts, it covers: -the domain of nursing science - measurement—classical test theory, IRT, clinimetrics, behavioral observation, biophysical measurement -models for prediction and explanation—SEM, general growth mixture models, hierarchical models, analysis of dynamic systems -intervention research—theory-based interventions, causality, third variables, pilot studies, quasi-experimental design, joint models for longitudinal data and time to event -e-science—DIKW paradigm, big data, data mining, omics, FMRI -special topics—comparative effectiveness and meta-analysis, patient safety, economics research in nursing, mixed methods, global research dissemination Written by a distinguished group of international nursing scientists, scientists from related fields, and methodologists, the Handbook is the ideal reference for everyone involved in nursing science, whether they are graduate students, academics, editors and reviewers, or clinical investigators.

Health Technology Assessment and Health Policy-making in Europe - Marcial Velasco Garrido 2008

New technologies with the potential to improve the health of populations are continuously being introduced. But not every technological development results in clear health gains. Health technology assessment provides evidence-based information on the coverage and usage of health technologies, enabling them to be evaluated properly and applied to health care efficaciously, promoting the most effective ones while also taking into account organizational, societal and ethical issues. This book reviews the relationship between health technology assessment and policy-making, and examines how to increase the contribution such research makes to policy- and decision-making processes. By communicating the value and potential of health technology assessment to a wider audience, both within and beyond decision-making and health care management, it aims ultimately to contribute to improve the health status of the population through the delivery of optimum health services. *Medical Decision Making* - Harold C. Sox 2013-05-08

This book clearly demonstrates how to best make medical decisions while incorporating clinical practice guidelines and decision support systems for electronic medical record systems. New to this edition is how medical decision making ideas are being incorporated into clinical decision support systems in electronic medical records and also how they are being used to shape practice guidelines and policies.