

## Decision Making In Medicine An Algorithmic Approach 2nd Edition

Decision making is a critical element in the field of medicine that can lead to life-or-death outcomes, yet it is an element fraught with complex and conflicting variables, diagnostic and therapeutic uncertainties, patient preferences and values, and costs. Together, decisions made by physicians, patients, insurers, and policymakers determine the quality of health care, quality that depends inherently on counterbalancing risks and benefits and competing objectives such as maximizing life expectancy versus optimizing quality of life or quality of care versus economic realities. Broadly speaking, concepts in medical decision making (MDM) may be divided into two major categories: prescriptive and descriptive. Work in the area of prescriptive MDM investigates how medical decisions should be done using complicated analyses and algorithms to determine cost-effectiveness measures, prediction methods, and so on. In contrast, descriptive MDM studies how decisions actually are made involving human judgment, biases, social influences, patient factors, and so on. The Encyclopedia of Medical Decision Making gives a gentle introduction to both

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categories, revealing how medical and healthcare decisions are actually made—and constrained—and how physician, healthcare management, and patient decision making can be improved to optimize health outcomes. Key Features Discusses very general issues that span many aspects of MDM, including bioethics; health policy and economics; disaster simulation modeling; medical informatics; the psychology of decision making; shared and team medical decision making; social, moral, and religious factors; end-of-life decision making; assessing patient preference and patient adherence; and more Incorporates both quantity and quality of life in optimizing a medical decision Considers characteristics of the decisionmaker and how those characteristics influence their decisions Presents outcome measures to judge the quality or impact of a medical decision Examines some of the more commonly encountered biostatistical methods used in prescriptive decision making Provides utility assessment techniques that facilitate quantitative medical decision making Addresses the many different assumption perspectives the decision maker might choose from when trying to optimize a decision Offers mechanisms for defining MDM algorithms With comprehensive and authoritative coverage by experts in the fields of medicine, decision science and cognitive psychology, and healthcare management, this two-volume Encyclopedia is a must-have resource for any

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academic library.

Explores the art and science of the decision-making process amid the complexities of contemporary medicine and describes how such factors as the realities of medical politics and patient intuition play a key role in critical medical decisions. Reprint.

In the Himalayan Kingdom of Bhutan, medical patients engage a variety of healing practices to seek cures for their ailments. Patients use the expanding biomedical network and a growing number of traditional healthcare units, while also seeking alternative practices, such as shamanism and other religious healing, or even more provocative practices. The Patient Multiple delves into this healthcare complexity in the context of patients' daily lives and decision-making processes, showing how these unique mountain cultures are finding new paths to good health among a changing and multifaceted medical topography.

Using a proven, practical, algorithmic approach, *Surgical Decision Making* summarizes evidence-based guidelines and practice protocols in an easy-to-follow format. Designed to sharpen the decision-making skills of both trainees and practicing surgeons, the 6th Edition directs your focus to the critical decision points in a wide range of clinical scenarios, helping you determine optimal evaluation and management to secure the best possible patient outcomes.

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Algorithms are accompanied by annotations that explain all critical factors affecting decisions in a concise, readable manner. Reflects the scope of practice of today's general surgeon, with fresh, expert perspectives from new editor Dr. Richard Schulick and numerous new contributors. Contains 58 new chapters and thoroughly revised content throughout. Includes new coverage of Preoperative Evaluation of the Geriatric Patient, Pancreatic Cystic Neoplasm, Familial Breast Cancer, Resuscitative Endovascular Balloon Occlusion of the Aorta, Blunt Cerebrovascular Injury, and much more. Uses an easy-to-follow, consistent format, with an algorithm on one page and short descriptions explaining the various steps in the decision-making process on the opposite page. Includes explanatory notes that summarize presenting signs and symptoms, laboratory investigation, diagnostic modalities, surgical therapies, and adjuvant therapies for each condition. Encompasses both general surgery and surgical subspecialties?helping you directly manage a broad range of problems. Emphasizes information that frequently appears on board exams.

Mastery of quality health care and patient safety begins as soon as we open the hospital doors for the first time and start acquiring practical experience. The acquisition of such experience includes much more than the development of sensorimotor skills and basic knowledge of sciences. It relies on effective reason,

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decision making, and communication shared by all health professionals, including physicians, nurses, dentists, pharmacists, and administrators. How to Think in Medicine, Reasoning, Decision Making, and Communications in Health Sciences is about these essential skills. It describes how physicians and health professionals reason, make decision, and practice medicine. Covering the basic considerations related to clinical and caregiver reasoning, it lays out a roadmap to help those new to health care as well as seasoned veterans overcome the complexities of working for the well-being of those who trust us with their physical and mental health. This book provides a step-by-step breakdown of the reasoning process for clinical work and clinical care. It examines both the general and medical ways of thinking, reasoning, argumentation, fact finding, and using evidence. It explores the principles of formal logic as applied to clinical problems and the use of evidence in logical reasoning. In addition to outline the fundamentals of decision making, it integrates coverage of clinical reasoning risk assessment, diagnosis, treatment, and prognosis in evidence-based medicine. Presented in four sections, this book discusses the history and position of the problem and the challenge of medical thinking; provides the philosophy interfacing topics of interest for health sciences professionals including the probabilities, uncertainties, risks, and other quantifications in health by steps of

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clinical work; decision making in clinical and community health care, research, and practice; Communication in clinical and community care including how to write medical articles, clinical case studies and case reporting, and oral and written communication in clinical and community practice and care.

Written by neurologists for neurologists, *Decision-Making in Adult Neurology* provides practical guidance when encountering patients whose clinical presentation is unfamiliar or complex, or whose treatment path is not completely certain. This useful handbook is filled with diagnostic and treatment algorithms that encourage you to think systematically and follow a logical sequence through the steps necessary for efficient and effective decision-making. Outlines the key decision points in patient management, providing a wealth of systematic information that ensures you take into account the proper physical signs and test results that will guide your recommendations. Contains 119 algorithms covering symptoms and signs, specific neurologic conditions, vascular disorders, seizures, head trauma, neoplastic disease, peripheral nervous disorders, and muscle disease. Accompanies each algorithm with brief text that explains the significance of important decision points. Provides step-by-step decision-making guidelines for testing and management of paraneoplastic diseases, choice of initial MS therapy, evaluation of incidentally discovered MRI white matter lesions,

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management of asymptomatic carotid stenosis, and much more.

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

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better judgments together.

Clinical Decision Making in Complementary and amp; Alternative Medicine differs from other medical texts by introducing a systematic clinical framework for the practice of complementary and alternative medicine. While comparable titles may explore the use or efficacy of specific complementary and alternative medicine interventions, this indispensable textbook highlights evidence-based interventions, while helping practitioners apply them within a clinical decision making framework. Clinical Decision Making in Complementary and amp; Alternative Medicine is a one-of-a-kind health reference for clinicians, stu

The book covers various scenarios when errors, biases and systemic barriers prevail in emergency medicine, discusses their impact, and then offers solutions to mitigate their undesired outcomes. The process of clinical reasoning in emergency medicine is a complex exercise in cognition, judgment and problem-solving that is prone to mistakes. The book presents various cases written by a team of emergency specialists and trainees in an engaging format that is helpful for the practicing and teaching emergency doctor and trainees. The book discusses 51 different types of biases and errors with clinical cases, and knowledge of strategies to mitigate them—a concept known as ‘cognitive debiasing’ that has the potential to reduce diagnostic error, and therefore, morbidity and mortality. It aims to help the readers during assessment of patients in the emergency department. Each chapter includes 4 cases illustrating the bias, error or barrier discussed, followed by a potential solution. This book helps



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in polishing the thinking and behavior of the readers so to potentially enhance their clinical competence in emergency department.

DECISION MAKING IN MEDICINE offers an algorithmic approach to the diagnosis and treatment of common disorders and diseases. By providing nearly 250 clinical decision making algorithms, this practical reference helps you arrive at the proper diagnosis and also leads you to the appropriate therapy or course of action. Brief text appears on the page facing each algorithm to provide additional explanations or details about key decision points on the algorithm. Topics are organized by sign, symptom, problem, or laboratory abnormality. The consistent format and decision tree approach of DECISION MAKING IN MEDICINE is certain to enhance your clinical efficiency. Algorithmic format promotes systematic thinking and logical clinical decision making Comprehensive coverage includes general medicine, internal medicine, women's health, emergency medicine, urology, behavioral medicine and pharmacology Brief text accompanies each algorithm to explain and highlight key steps of the decision making process New section on Women's Health presents conditions that affect women NEW TO THIS EDITION Gives greater emphasis to conditions unique to women in a new section on women's health Spanish version of 1st edition also available, ISBN: 84-8174-103-5

This textbook offers a comprehensive theory of medical decision making under uncertainty, combining informative test theory with the expected utility hypothesis. The book shows how the parameters of Bayes' theorem can be combined with a value function of health states to arrive at informed test and treatment decisions. The authors distinguish between risk neutral, risk averse and prudent decision makers and demonstrate the effects of risk preferences on

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physicians' decisions. They analyze individual tests, multiple tests and endogenous tests where the test result is determined by the decision maker. Finally, the topic is examined in the context of health economics by introducing a trade-off between enjoying health and consuming other goods, so that the extent of treatment and thus the potential improvement in the patient's health become endogenous.

With concise text and a simple, easy-to-follow organizational structure, the brand-new *Vascular Decision Making: Medical, Endovascular, Surgical* helps you make well-informed treatment and procedural decisions on a variety of vascular conditions and diseases you encounter in clinical settings with patients.

Looking for a brief but authoritative resource to help you manage the types of complex cardiac, pulmonary, and neurological emergencies you encounter as a resident or attending emergency room physician? Look no further than *Decision Making in Emergency Critical Care: An Evidence-Based Handbook*. This portable guide to rational clinical decision-making in the challenging – and changing – world of emergency critical care provides in every chapter a streamlined review of a common problem in critical care medicine, along with evidence-based guidelines and summary tables of landmark literature. Features Prepare for effective critical care practice in the emergency room's often chaotic and resource-limited environment with expert guidance from fellows and attending physicians in the fields of emergency medicine, pulmonary and critical care medicine, cardiology, gastroenterology, and neurocritical care. Master critical care fundamentals as experts guide you through the initial resuscitation and the continued management of critical care patients during their first 24 hours of intensive care. Confidently make sustained, data-driven decisions for the critically ill patient using expert

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information on everything from hemodynamic monitoring and critical care ultrasonography to sepsis and septic shock to the ED-ICU transfer of care.

This work charts the progress of changing values in medical and healthcare decision-making, particularly as a result of economic pressures, and the role of clinical ethics in determining what courses of action and treatment medical and healthcare professionals should pursue. It evaluates the concepts involved in ethical decision-making, such as risk and need, and whose values are relevant to which decisions and looks at the changing emphasis of medicine and the relevance of value judgments in clinical decisions. This stimulating work incorporates a number of different perspectives, disciplines, cultures and nationalities to provide a multi-disciplinary, international approach. In addition to medical and economic issues, the book also discusses philosophical and legal aspects.

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-

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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.

Patients today are more empowered and knowledgeable than they have ever been. By law, they must be told about the risks and benefits of proposed treatments and give informed consent before treatment is initiated. Through the democratization of medical information, they have access to peer-reviewed medical journals. Social media allows patients to share stories with others and to learn about other people's experiences with various treatments. There are websites written by experts at leading medical schools to help patients understand diseases and treatments. They have the right to see their medical records. The net result of all changes is a shift in the power balance between doctors and patients. Ideally, as a result of these shifts, the patients' values and preferences should guide treatment decisions. However, this proliferation of information often leads to confusion rather than clarity. Publicly available information often includes seemingly contradictory conclusions and recommendations. Patients don't know which opinions to trust. So, although patients have more information than ever, and many want to make decisions for themselves, they need more guidance than ever to help them process an avalanche of information. This volume aims to help both medical professionals and their patients navigate the evolving healthcare landscape by analyzing the process of shared decision-making (SDM) in clinical medicine. The concept of SDM has emerged in the last two decades as a middle ground between, on the one hand, old-fashioned physician paternalism of the "doctor-knows-best" variety and, on the other hand, unfettered patient autonomy by which patients are thought capable of individually and independently choosing their own

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medical interventions. Advocates of SDM imagine that decisions will be made best if they follow a complex discussion and negotiation between doctor and patient; such discussions should incorporate the doctor's medical and technical expertise as well as the patient's goals, values, and preferences. SDM takes different forms for different patients in different clinical circumstances. This volume gathers experts in SDM to share their insights about how it ought to be done. The authors include clinicians, social scientist, and philosophers, all of whom have thought about or cared for patients from a variety of backgrounds and in a variety of clinical circumstances. The papers explore the complexity of SDM and offer practical guidance, gained from years of experience, about how to employ SDM as effectively as possible.

DECISION MAKING IN MEDICINE offers an algorithmic approach to the diagnosis and treatment of common disorders and diseases. by providing nearly 250 clinical decision making algorithms, this practical reference helps you arrive at the proper diagnosis and also leads you to the appropriate therapy or course of action. Brief text appears on the page facing each algorithm to provide additional explanations or details about key decision points on the algorithm. Topics are organized by sign, symptom, problem, or laboratory abnormality. the consistent format and decision tree approach of DECISION MAK

Applications of Multi-Criteria Decision-Making Theories in Healthcare and Biomedical Engineering contains several practical applications on how decision-making theory could be used in solving problems relating to the selection of best alternatives. The book focuses on assisting decision-makers (government, organizations, companies,

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general public, etc.) in making the best and most appropriate decision when confronted with multiple alternatives. The purpose of the analytical MCDM techniques is to support decision makers under uncertainty and conflicting criteria while making logical decisions. The knowledge of the alternatives of the real-life problems, properties of their parameters, and the priority given to the parameters have a great effect on consequences in decision-making. In this book, the application of MCDM has been provided for the real-life problems in health and biomedical engineering issues. Provides a comprehensive analysis and application multi-criteria decision-making methods Presents detail information about MCDM and their usage Covers state-of-the-art MCDM methods and offers applications of MCDM for health and biomedical engineering purposes

Now in its fourth edition, *Rational Diagnosis and Treatment: Evidence-Based Clinical Decision-Making* is a unique book to look at evidence-based medicine and the difficulty of applying evidence from group studies to individual patients. The book analyses the successive stages of the decision process and deals with topics such as the examination of the patient, the reliability of clinical data, the logic of diagnosis, the fallacies of uncontrolled therapeutic experience and the need for randomised clinical trials and meta-analyses. It is the main theme of the book that, whenever possible, clinical decisions must be based on the evidence from clinical research, but the authors also explain the pitfalls of such research and the problems involved in applying

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evidence from groups of patients to the individual patient. For this new edition, the sections on placebo and meta-analysis and on alternative medicine have been thoroughly updated, and there is more focus on insufficient reporting of harms of interventions. The sections on different research designs describe advantages and limitations, and the increased medicalisation and the effects of cancer screening on health people are noted. A section on academic freedom when clinicians collaborate with industry and ghost authors is added. This essential reference work integrates the science and statistical approach of evidence-based medicine with the art and humanism of medical practice; distinguishing between data, sets of data, knowledge and wisdom, and their application. Such an intellectually challenging book is ideal for both medical students and doctors who require theoretical and practical clinical skills to help ensure that they apply theory in practice.

Berman's Pediatric Decision Making uses an algorithmic, structured approach to lead you to the right diagnosis and treatment every time. Drs. Lalit Baja, Simon Hambidge, Ann-Christine Nyquist, and Gwendolyn Kerby use evidence-based research and flow charts for each presenting complaint or specific disorder to provide quick access to the information you need for effective decision making. With updated drug tables and revised algorithms, this streamlined new edition makes it even easier for you to diagnose and manage common clinical problems from infancy through adolescence. Rapidly access guidance on diagnosis and management from algorithms for each

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clinical disorder. Treat the full range of diseases and disorders with comprehensive coverage of diagnosis, assessment of severity, and clinical management. Choose the best treatment for each case thanks to indications for surgical interventions as well as expensive diagnostic procedures Stay current on recent developments and make effective decisions for movement disorders, physical abuse in children, sexual abuse in children, eating disorders, ADHD, and other hot topics. Find answers quickly and easily with a new table of contents organized into two sections—Presenting Complaints and Specific Disorders—that reduces the need to flip between chapters. Tap into the diverse perspectives of expert authors from all over the country. Get only the information you need in the streamlined new edition with shorter, more user-friendly flow diagrams and fewer specialized chapters.

This popular reference facilitates diagnostic and therapeutic decision making for a wide range of common and often complex problems faced in outpatient and inpatient medicine. Comprehensive algorithmic decision trees guide you through more than 250 disorders organized by sign, symptom, problem, or laboratory abnormality. The brief text accompanying each algorithm explains the key steps of the decision making process, giving you the clear, clinical guidelines you need to successfully manage even your toughest cases. An algorithmic format makes it easy to apply the practical, decision-making approaches used by seasoned clinicians in daily practice.

Comprehensive coverage of general and internal medicine helps you successfully



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diagnose and manage a full range of diseases and disorders related to women's health, emergency medicine, urology, behavioral medicine, pharmacology, and much more. A Table of Contents arranged by organ system helps you to quickly and easily zero in on the information you need. More than a dozen new topics focus on the key diseases and disorders encountered in daily practice. Fully updated decision trees guide you through the latest diagnostic and management guidelines.

This work translates the major principles of medical decision making into clinically relevant and easy to understand terms. It aims to help the reader feel confident about giving the best advice in the face of inherent uncertainties of real-world medicine. Minimize risk for every surgery-bound patient with this concise, high-yield clinical reference With new surgical advances and innovations, more older, sicker, higher-risk patients are undergoing surgery. Expertly assessing and managing patients with comorbidities who are undergoing surgical procedures is an absolutely critical task today—and *Decision Making in Perioperative Medicine: Clinical Pearls* will ensure that you make the right decisions through every step of the process. Which risk calculator should you use? How long should you delay surgery after percutaneous coronary intervention? Should the patient continue taking aspirin? How long before surgery should you stop a direct-acting oral anticoagulant? *Decision Making in Perioperative Medicine: Clinical Pearls* answers your questions when it comes to perioperative care. Filled with algorithms, tables, and clinical pearls, this practical resource is organized

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into three sections: Key takeaways on preoperative evaluation, testing, anesthesia, and medication management Expert guidance on evaluating the effect of comorbidities on surgical outcome and providing strategies for medical optimization to minimize risk Review of common postoperative medical complications and treatment Whether you're a hospitalist, internist, family physician, anesthesiologist, physician assistant, or nurse practitioner, *Decision Making in Perioperative Medicine: Clinical Pearls* provides the evidence-based information and insights you need to make sure every surgery-bound patient receives the quality of care and management they deserve.

All the key principles of medical decision-making in one compact, case-based guide "The book provides a comprehensive overview of many core principles in research design and analysis. It is logically organized, with clear learning objectives at the beginning of each chapter and pertinent examples to illustrate key concepts. The author does a wonderful job of simplifying a subject that has caused much confusion for many medical students and physicians....This is a book that I would enthusiastically recommend to other medical students. 5 Stars!"--Doody's Review Service *Rational Medical Decision Making: A Case-Based Approach* is a hands-on text that clarifies the process of evidence-based medical decision making like no other source. Following the trusted LANGE format, this portable volume is ideal for learning the fundamentals of evidence-based medical practice and skills. Whether you are a student, resident, or a clinician, here is where you'll find all the right tools-including case studies, learning

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objectives, and self-assessment exercises-to take your decision making skills to the next level. Features Full-spectrum coverage, from basic statistics, medical literature interpretation, and statistics and data application, to different types of research methodologies Case-based orientation in each chapter, featuring cases designed to highlight the important principles discussed in that chapter Focus on learning critical evidence-based medicine concepts, such as Positive Predictive Values, Number-Needed-to-Treat Statistics, Pre Test Probability, Sensitivity and Specificity, and more Engaging discussion of research methods in the context of diagnosis- and therapeutics-centered studies An overview of the construction and evidentiary basis of Clinical Practice Guidelines, with a look at their definition, purpose, and use in aiding patient care decisions “Anatomy of a Research Article” chapter that goes beyond the interpretation of medical literature to describe the process through which articles are published

While most practicing pharmacists are familiar with the term and the general concept of evidence-based medicine, few are adequately trained in the clinical application of these skills. Developed to give clinical pharmacists an edge, this book provides a practical approach for applying sound EBM principles to your clinical decision making process. Decision making based on personal experience alone, without knowledge from well-designed, controlled, randomized trials with adequate sample size, often overestimates the efficacy and underestimates the safety risks associated with drugs. This book provides a roadmap that is instructional and, most importantly, practical for the pharmacist so these new skills can be

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applied immediately in practice. Based on a five-step process perfected over ten years at the University of Missouri, Kansas City, School of Pharmacy, this exciting new approach will:

- Reduce complexity
- Shorten time for decision making support
- Maintain rigor
- Categorize quality of the evidence in a simple, straightforward, and logical manner
- Provide a process designed specifically for pharmacists making drug therapy decisions

Use of examples, tables, diagrams, and key points highlighted throughout the book and summarized at the end of each chapter provide the pharmacist with skills they can implement the next day to begin applying EBM principles to their practice.

Tells doctors and students how to evaluate complex clinical information to improve health care. A guide for everyone involved in medical decision making to plot a clear course through complex and conflicting benefits and risks.

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.

Medical imaging technologies play a significant role in visualization and interpretation methods in medical diagnosis and practice using decision making, pattern classification, diagnosis, and learning. Progressions in the field of medical imaging lead to interdisciplinary discovery in microscopic image processing and computer-assisted diagnosis systems, and aids physicians in the diagnosis and early detection of diseases. Histopathological Image Analysis in Medical Decision Making provides emerging research exploring the theoretical and practical

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applications of image technologies and feature extraction procedures within the medical field. Featuring coverage on a broad range of topics such as image classification, digital image analysis, and prediction methods, this book is ideally designed for medical professionals, system engineers, medical students, researchers, and medical practitioners seeking current research on problem-oriented processing techniques in imaging technologies.

Large, successful organizations only transform after failure. If everything is going well, there is a tendency not to challenge methods. It is only once things have gone radically wrong that a successful organization starts to reexamine their methods and culture. This book is about organizational leadership, but provides a unique spin to promoting innovation, inclusion and transparency among employees. It examines co-author Steven Rotkoff's experiences as a retired US Army Colonel and Red Team strategies used by the military and the corporate world to make better decisions and improve organizational culture and applies them to nursing in both clinical and academic settings. Centering cases derived from US-based academic and clinical settings, the book discusses how and why some strategies do and others don't work and examines how these military and corporate strategies apply effectively to nursing settings. Turning a lot of the available literature on its head, this book offers new models and methods to foster better conversations, particularly between managers and staff. Nursing has changed in both academic and clinical settings. Just as military and corporate organizations have had to change their organizational behavior and leadership styles and methods to meet the needs of today's employees and consumers, the nursing profession must change to meet the needs of faculty, an inter-professional health care environment and our increasingly inclusive and diverse environments.

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Over the past decade health care systems around the world have placed increasing importance on the relationship between patient choice and clinical decision-making. In the years since the publication of the second edition of *Shared Decision Making in Health Care*, there have been significant new developments in the field, most notably in the US where 'Obamacare' puts shared decision making (SDM) at the centre of the 2009 Affordable Care Act. This new edition explores shared decision making by examining, from practical and theoretical perspectives, what should comprise an effective decision-making process. It also looks at the benefits and potential difficulties that arise when patients and clinicians share health care decisions. Written by leading experts from around the world and utilizing high quality evidence, the book provides an up-to-date reference with real-world context to the topics discussed, and in-depth coverage of the practicalities of implementing and teaching SDM. The breadth of information in *Shared Decision Making in Health Care* makes it an essential resource for policy-makers and health care workers. As health care systems adapt to increasingly collaborative patient-clinician care frameworks, this will also prove a useful guide to SDM for clinicians of all disciplines.

Decision making is the physician's major activity. Every day, in doctors' offices throughout the world, patients describe their symptoms and complaints while doctors perform examinations, order tests, and, on the basis of these data, decide what is wrong and what should be done. Although the process may appear routine-even to the physicians involved-each step in the sequence requires skilled clinical judgment. Physicians must decide: which symptoms are important, whether any laboratory tests should be done, how the various items of clinical data should be combined, and, finally, which of several treatments (including doing nothing) is

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indicated. Although much of the information used in clinical decision making is objective, the physician's values (a belief that pain relief is more important than potential addiction to pain-killing drugs, for example) and subjectivity are as much a part of the clinical process as the objective findings of laboratory tests. In recent years, both physicians and psychologists have come to realize that patient management decisions are not only subjective but also probabilistic (although this is not always acknowledged overtly). When doctors argue that an operation is fairly safe because it has a mortality rate of only 1 %, they are at least implicitly admitting that the outcome of their decision is based on probability.

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.

Decision making is a key activity, perhaps the most important activity, in the practice of healthcare. Although physicians acquire a great deal of knowledge and specialised skills during their training and through their practice, it is in the exercise of clinical judgement and its

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application to individual patients that the outstanding physician is distinguished. This has become even more relevant as patients become increasingly welcomed as partners in a shared decision making process. This book translates the research and theory from the science of decision making into clinically useful tools and principles that can be applied by clinicians in the field. It considers issues of patient goals, uncertainty, judgement, choice, development of new information, and family and social concerns in healthcare. It helps to demystify decision theory by emphasizing concepts and clinical cases over mathematics and computation.

Representing the first collection on the topic, this book builds from foundations to case studies, to future prospects, providing the reader with a rich and comprehensive understanding of the use of multi-criteria decision analysis (MCDA) in healthcare. The first section of the collection presents the foundations of MCDA as it is applied to healthcare decisions, providing guidance on the ethical and theoretical underpinnings of MCDA and how to select MCDA methods appropriate to different decision settings. Section two comprises a collection of case studies spanning the decision continuum, including portfolio development, benefit–risk assessment, health technology assessment, priority setting, resource optimisation, clinical practice and shared decision making. Section three explores future directions in the application of MCDA to healthcare and identifies opportunities for further research to support these.

Decision Making in Medicine An Algorithmic Approach Elsevier Health Sciences

In the wake of the Charlie Gard and Alfie Evans cases, a wide-ranging international conversation was started regarding alternative thresholds for intervention and the different balances that can be made in weighing up the rights and interests of the child, the parent's



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rights and responsibilities and the role of medical professionals and the courts. This collection provides a comparative perspective on these issues by bringing together analysis from a range of jurisdictions across Europe, North and South America, Africa and Asia. Contextualising the differences and similarities, and drawing out the cultural and social values that inform the approach in different countries, this volume is highly valuable to scholars across jurisdictions, not only to inform their own local debate on how best to navigate such cases, but also to foster inter-jurisdictional debate on the issues. The book brings together commentators from the fields of law, medical ethics, and clinical medicine across the world, actively drawing on the view from the clinic as well as philosophical, legal and sociological perspectives on the crucial question of who should decide about the fate of a child suffering from a serious illness. In doing so, the collection offers comprehensive treatment of the key questions around whether the current best interests approach is still appropriate, and if not, what the alternatives are. It engages head-on with the concerns seen in both the academic and popular literature that there is a need to reconsider the orthodoxy in this area.

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