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# Two Way Sensitivity Analysis

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Response Surface Methodology as a Sensitivity Tool in Decision Analysis  
Essentials of Economic Evaluation in Healthcare  
Symbolic and Quantitative Approaches to Reasoning with Uncertainty  
Handbook of Applied Health Economics in Vaccines  
The Clinical Management of Cerebrovascular Disease in Precision Medicine Era  
Economic Evaluation  
National Institutes of Health Consensus Development Conference on Limb-Sparing Treatment of Adult Soft-Tissue Sarcomas and Osteosarcomas  
International Encyclopedia of Public Health  
Multiple Criteria Decision Analysis for Industrial Engineering  
Journal of the National Cancer Institute  
Value-Added Decision Making for Managers  
Medical Decision Making  
Behavioral Intervention Research  
Economic Evaluation of Cancer Drugs  
Diagnosis and Treatment of Swallowing Disorders (dysphagia) in Acute-care Stroke Patients  
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Health Systems Policy, Finance, and Organization

Decision Making in Natural Resource  
Management  
Encyclopedia of Medical Decision Making  
Developing a Protocol for Observational  
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**KLEIN MCDANIEL**

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*Response Surface Methodology as a Sensitivity Tool in Decision Analysis* CRC Press

This is a brand new edition of an essential work on Bayesian networks and decision graphs. It is an introduction to probabilistic graphical models including Bayesian networks and influence diagrams. The reader is guided through the two types of frameworks with examples and exercises, which also give instruction on how to build these models. Structured in two parts, the first section focuses on probabilistic graphical models, while the second part deals with decision graphs, and in addition to the frameworks described

in the previous edition, it also introduces Markov decision process and partially ordered decision problems.

**Essentials of Economic Evaluation in Healthcare**

Springer Nature International Encyclopedia of Public Health, Second Edition, Seven Volume Set is an authoritative and comprehensive guide to the major issues, challenges, methods, and approaches of global public health. Taking a multidisciplinary approach, this new edition combines complementary scientific fields of inquiry, linking biomedical research with the social and life sciences to address the three major themes of public health research,

disease, health processes, and disciplines. This book helps readers solve real-world problems in global and local health through a multidisciplinary and comprehensive approach. Covering all dimensions of the field, from the details of specific diseases, to the organization of social insurance agencies, the articles included cover the fundamental research areas of health promotion, economics, and epidemiology, as well as specific diseases, such as cancer, cardiovascular diseases, diabetes, and reproductive health. Additional articles on the history of public health, global issues, research priorities, and health and human rights make this work

an indispensable resource for students, health researchers, and practitioners alike. Provides the most comprehensive, high-level, internationally focused reference work available on public health Presents an invaluable resource for both researchers familiar with the field and non-experts requiring easy-to-find, relevant, global information and a greater understanding of the wider issues Contains interdisciplinary coverage across all aspects of public health Incorporates biomedical and health social science issues and perspectives Includes an international focus with contributions from global domain experts, providing a complete

picture of public health issues

Symbolic and Quantitative Approaches to Reasoning with Uncertainty Cambridge University Press

This book is intended for use by natural resource managers and scientists, and students in the fields of natural resource management, ecology, and conservation biology, who are confronted with complex and difficult decision making problems. The book takes readers through the process of developing a structured approach to decision making, by firstly deconstructing decisions into component parts, which are each fully analyzed and then reassembled to form a

working decision model. The book integrates common-sense ideas about problem definitions, such as the need for decisions to be driven by explicit objectives, with sophisticated approaches for modeling decision influence and incorporating feedback from monitoring programs into decision making via adaptive management. Numerous worked examples are provided for illustration, along with detailed case studies illustrating the authors' experience in applying structured approaches. There is also a series of detailed technical appendices. An accompanying website provides computer code and data used in the worked examples.

Additional resources for this book can be found at:

[www.wiley.com/go/conroy/naturalresourcemanagement](http://www.wiley.com/go/conroy/naturalresourcemanagement).

*Handbook of Applied Health Economics in Vaccines* SAGE Publications

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 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 academic library.

**The Clinical Management of Cerebrovascular Disease in Precision Medicine Era**

Lippincott Williams & Wilkins  
Patient Surveillance After Cancer Treatment covers the history of cancer patient surveillance after curative-intent

treatment, the rationale, the methodologies used in the past and at present, the methodologies that will probably emerge in the future, the costs of surveillance, the definitions of various terms used in the field, and how those who are interested in the topic can get more information about it from the internet. The secondary focus of the book is to publicize the need for well-designed, adequately powered randomized clinical trials comparing two (or more) surveillance strategies for each type of cancer. The audience includes all oncologists, cancer researchers, medical economists and policy makers in government and insurance companies, and finally,



interested patients. This book is part of the Current Clinical Oncology series, which provides cutting-edge knowledge of cancer diagnosis, management, and treatment. World renowned experts share their insights in all the major fields of clinical oncology. From the fundamentals of pathophysiology to the latest developments in experimental and novel therapies, Current Clinical Oncology is an indispensable resource for today's practicing oncologist.

*Economic Evaluation*  
John Wiley & Sons

Evidence Synthesis in Healthcare - a Practical Handbook for Clinicians is the first book to reveal the field of Evidence Synthesis, by combining multiple

sources of quantitative/qualitative data to derive the best evidence for use in healthcare. Through the use of clearly explained examples and practical explanations, Evidence Synthesis in Healthcare - a Practical Handbook for Clinicians describes the practical tools, techniques, uses and policy considerations of evidence synthesis techniques in modern healthcare practice.

*National Institutes of Health Consensus Development Conference on Limb-Sparing Treatment of Adult Soft-Tissue Sarcomas and Osteosarcomas*  
Springer Nature

Tells doctors and students how to evaluate complex clinical information to improve health care.

**International  
Encyclopedia of  
Public Health** CRC

Press

This User's Guide is a resource for investigators and stakeholders who develop and review observational comparative effectiveness research protocols. It explains how to (1) identify key considerations and best practices for research design; (2) build a protocol based on these standards and best practices; and (3) judge the adequacy and completeness of a protocol. Eleven chapters cover all aspects of research design, including: developing study objectives, defining and refining study questions, addressing the heterogeneity of treatment effect,

characterizing exposure, selecting a comparator, defining and measuring outcomes, and identifying optimal data sources. Checklists of guidance and key considerations for protocols are provided at the end of each chapter. The User's Guide was created by researchers affiliated with AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews. More more information, please consult the Agency website: [www.effectivehealthcare.ahrq.gov](http://www.effectivehealthcare.ahrq.gov))

Multiple Criteria Decision Analysis for Industrial Engineering  
Pharmaceutical Press  
This book brings together important topics of current research in probabilistic graphical modeling, learning from data and probabilistic inference. Coverage includes such topics as the characterization of conditional independence, the learning of graphical models with latent variables, and extensions to the influence diagram formalism as well as important application fields, such as the control of vehicles, bioinformatics and medicine.

**Journal of the National Cancer Institute** Elsevier  
There are so many

ways in which health might be improved today and, as technology improves, the opportunities will increase. However, there are limits to budgets as well as other resources so choices have to be made about what to spend money and time on. Economic evaluation can help set out the value of the costs and benefits from competing choices. This book examines how to undertake economic evaluation of health care interventions in low, middle and high income countries. It covers: Ways in which economic evaluations might be structured Approaches to measuring and valuing costs and effects Interpreting and presenting evidence

Appraising the quality and usefulness of economic evaluations

**Value-Added Decision Making for Managers** Springer Science & Business Media

Cancer is a major healthcare burden across the world and impacts not only the people diagnosed with various cancers but also their families, carers, and healthcare systems. With advances in the diagnosis and treatment, more people are diagnosed early and receive treatments for a disease where few treatments options were previously available. As a result, the survival of patients with cancer has steadily improved and, in most cases, patients who are not cured may

receive multiple lines of treatment, often with financial consequences for the patients, insurers and healthcare systems. Although many books exist that address economic evaluation, *Economic Evaluation of Cancer Drugs using Clinical Trial and Real World Data* is the first unified text that specifically addresses the economic evaluation of cancer drugs. The authors discuss how to perform cost-effectiveness analyses while emphasising the strategic importance of designing cost-effectiveness into cancer trials and building robust economic evaluation models that have a higher chance of reimbursement if truly cost-effective. They

cover the use of real-world data using cancer registries and discuss how such data can support or complement clinical trials with limited follow up. Lessons learned from failed reimbursement attempts, factors predictive of successful reimbursement and the different payer requirements across major countries including US, Australia, Canada, UK, Germany, France and Italy are also discussed. The book includes many detailed practical examples, case studies and thought-provoking exercises for use in classroom and seminar discussions. Iftekhar Khan is a medical statistician and health economist and a lead statistician at Oxford University's Center for

Statistics in Medicine. Professor Khan is also a Senior Research Fellow in Health Economics at University of Warwick and is a Senior Statistical Assessor within the Licensing Division of the UK Medicine and Health Regulation Agency. Ralph Crott is a former professor in Pharmacoeconomics at the University of Montreal in Quebec, Canada and former head of the EORTC Health Economics Unit and former senior health economist at the Belgian HTA organization. Zahid Bashir has over twelve years experience working in the pharmaceutical industry in medical affairs and oncology drug development where he is involved in

the design and execution of oncology clinical trials and development of reimbursement dossiers for HTA submission.

Medical Decision

Making John Wiley & Sons

Now thoroughly updated, this resource offers practical, evidence-based guidelines for the care of hospitalized patients. The only book geared directly and exclusively to inpatient management, this guide is edited by national leaders in the hospital field.

Behavioral Intervention

Research Springer

Publishing Company  
The Handbook of Health Economics provide an up-to-date survey of the burgeoning literature in health economics.

As a relatively recent subdiscipline of economics, health economics has been remarkably successful. It has made or stimulated numerous contributions to various areas of the main discipline: the theory of human capital; the economics of insurance; principal-agent theory; asymmetric information; econometrics; the theory of incomplete markets; and the foundations of welfare economics, among others. Perhaps it has had an even greater effect outside the field of economics, introducing terms such as opportunity cost, elasticity, the margin, and the production function into medical parlance. Indeed, health economists are

likely to be as heavily cited in the clinical as in the economics literature. Partly because of the large share of public resources that health care commands in almost every developed country, health policy is often a contentious and visible issue; elections have sometimes turned on issues of health policy. Showing the versatility of economic theory, health economics and health economists have usually been part of policy debates, despite the vast differences in medical care institutions across countries. The publication of the first Handbook of Health Economics marks another step in the evolution of health economics.

*Economic Evaluation of*

*Cancer Drugs* John Wiley & Sons

This updated volume provides insight into health services research, as well as the emerging areas of research and the tools required to perform scientific work. The book covers topics related to performance assessment, quality improvement, health care policy, and career development. New chapters on the evaluation of non-technical skills in surgery, methods of enhancing causal inference in observational studies, and writing scientific manuscripts are also included. Health Services Research aims to give advice on how to obtain National Institutes of Health funding and other grants, as well as

breaking through the barriers to developing a career in academic surgery. This book is relevant to surgical residents and young surgical faculty, as well as anyone undertaking a career in academic surgery.

*Diagnosis and Treatment of Swallowing Disorders (dysphagia) in Acute-care Stroke Patients*  
OUP USA

Policy-capturing models, data-based aids, expert systems and decision analysis are the main decision-making techniques introduced here, with attention to their methodological bases and practical evaluation.

**Decision Making in Health and Medicine with CD-ROM**

Springer Science & Business Media

Sensitivity analysis should be considered a pre-requisite for statistical model building in any scientific discipline where modelling takes place. For a non-expert, choosing the method of analysis for their model is complex, and depends on a number of factors. This book guides the non-expert through their problem in order to enable them to choose and apply the most appropriate method. It offers a review of the state-of-the-art in sensitivity analysis, and is suitable for a wide range of practitioners. It is focussed on the use of SIMLAB – a widely distributed freely-available sensitivity analysis software package developed by the authors – for



solving problems in sensitivity analysis of statistical models. Other key features: Provides an accessible overview of the current most widely used methods for sensitivity analysis. Opens with a detailed worked example to explain the motivation behind the book. Includes a range of examples to help illustrate the concepts discussed. Focuses on implementation of the methods in the software SIMLAB - a freely-available sensitivity analysis software package developed by the authors. Contains a large number of references to sources for further reading. Authored by the leading authorities on sensitivity analysis. Health Systems Policy, Finance, and

Organization Oxford University Press  
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. Decision Making in Natural Resource Management Springer Science & Business Media  
This second edition of Cost Effectiveness Analysis in Health reviews issues and methods of assessing

health care technologies and related programs. It emphasizes methods to perform economic evaluations, such as cost-effectiveness and cost-benefit analysis; methods to assess efficacy, effectiveness, and safety of health care technologies; effectiveness research; and applications to clinical and public policy. The book provides in-depth discussion of the uses and conducting of cost-effectiveness analyses (CEAs) as decision-making aids in public health, health services, and medicine. It explores cost-effectiveness in the context of societal decision making for resource allocation purposes. Chapter topics include: Defining and explaining cost-

effectiveness, principles of cost-effectiveness analysis, how to develop a research project, working with costs, probabilities and models, calculating life expectancy, working with health-related quality of life measures, calculating quality-adjusted life years, conducting a sensitivity analysis, preparing your study for publication, working with data, and finding the data you need. "For instructors, data sets and other ancillary materials are freely available at <http://www.pceo.org/>." *Encyclopedia of Medical Decision Making* Academic Press PET and PET-CT in Oncology describes the principles of positron emission tomography and is a useful

resource for incorporating the technique in clinical practice. In a clear and straightforward fashion, the book offers instructive information and overviews of the basic principles of PET and PET-CT as well as the routine clinical PET scanning procedures for all important oncological indications. It is designed to serve as a reference work for specialists in nuclear medicine and radiology (including therapy planning) and for oncologists. It also provides student and physicians in other medical specialities with a general introduction to the effective integration of this modern technique into routine clinical diagnostics. Above all, this volume illustrates the importance of PET

and PET-CT in comparison with other imaging techniques.

**Developing a Protocol for Observational Comparative Effectiveness Research: A User's Guide** Hospital Medicine

" I applaud [this] book for providing a much needed overview of the entire "behavioral intervention pipeline." It fills a unique niche in its coverage of key theoretical and methodological aspects as well as its case examples and professional development considerations, which makes the content accessible and practical for a broad audience." -Marcia Ory, PhD From the Foreword This unique text provides

comprehensive coverage of one of the most neglected—yet vitally important—areas of public health research: developing, evaluating, and implementing novel behavioral interventions in service and practice settings. Written for Masters- and Doctoral-level courses as well as novice and expert researchers in this area, the book examines the most critical issues surrounding this form of research in order to maximize the ability of intervention researchers to successfully implement current and future evidence-based protocols in practice settings. Expert contributors embrace key challenges—the complexities of health

care delivery, disease management and prevention, rising costs, and changing population demographics—in shaping the push toward advancing more efficient and effective behavioral interventions and methodologies. Tackling numerous topics that have been neglected in traditional randomized trial handbooks, methodology texts, and books on dissemination and implementation science, the book addresses: ways to develop and advance an intervention, emerging hybrid trial designs - theories and new models for integrating behavioral interventions with implementation science - - recruitment

and retention strategies for inclusion of diverse samples - research designs for different stages of intervention development - treatment fidelity models and measures - novel measurement and analytic strategies - cost analyses - selection of control groups - use of mixed methodology - ethics and informed consent - technology-based intervention approaches - professional considerations. Abundant case examples from successful behavioral intervention trials—both national and international--

illustrate key concepts. Key Features: Includes examples of a wide range of interventions including individuals across the life span and of diverse communities and health systems Replete with case examples from successful behavioral intervention trials Presents the challenges of and strategies for advancing behavioral interventions for immediate use in practice Written by world-recognized expert authors and contributors Provides novel coverage of a great variety of important—but previously neglected-- topics

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