# Decision Making in Cardiothoracic Surgery (Clinical decision making series)

Cohn, Lawrence H.

# **Decision Making In Cardiothoracic Surgery**

James K. Kirklin, Eugene H. Blackstone

# **Decision Making In Cardiothoracic Surgery:**

Decision Making in Cardiothoracic Surgery Lawrence H. Cohn, Donald B. Doty, Richard B. McElvein, 1988

Kirklin/Barratt-Boyes Cardiac Surgery James K. Kirklin, Eugene H. Blackstone, 2012-10-26 Now in its 4th edition Kirklin Barratt Boyes Cardiac Surgery remains your indispensable source for definitive state of the art answers on every aspect of adult and pediatric cardiac surgery This dynamic medical reference thoroughly and systematically covers the full range of new and classic surgical procedures including the latest alternate and minimally invasive surgical techniques and presents the up to date clinical evidence you need to make effective management decisions Be certain with expert dependable accurate answers for every stage of your career from the most comprehensive definitive text in the field Get comprehensive coverage of all areas of cardiac surgery including ischemic valvular and congenital heart disease cardiac tumors constrictive pericarditis thoracic aortic surgery cardiac transplantation coronary artery disease aortic valve disease cardiac rhythm disturbances heart failure and transplantation disease of the thoracic aorta tetralogy of Fallot anesthesia and postoperative care Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Make the most well informed decisions and achieve optimal outcomes by exploring each condition s natural history diagnostic criteria indications for surgery operative techniques and follow up care Reference information quickly thanks to a new streamlined format and easily searchable online access to the complete text downloadable image library reference links and more at expertconsult com Visually grasp and better understand critical information with the aid of a new full color design that includes an abundance of detailed charts and graphs Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Reference information quickly thanks to a new streamlined format and easily searchable online access to the complete text downloadable image library reference links and more at www expertconsult com Surgical Decision Making Rifat Latifi, 2016-04-30 This text provides a comprehensive and state of the art overview of the major issues specific to the surgical decision making process These include patient's anatomy and pathophysiology as well as the magnitude of the injury at hand the surgeon's own physiologic and mental status training and experience and many other factors such as creativity leadership skills and overall biochemistry of the environment The text reviews theoretical as well as objective information that surgeons use to make intraoperative decisions in situations often with very limited data decisions that will decide between a patient s living or dying such as in trauma surgery and other complex surgeries How surgeons choose one technical approach over another in

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Cardiothoracic Surgery, An Issue of Surgical Clinics John H. Braxton, 2017-08-01 This issue of Surgical Clinics of North America focuses on Cardiothoracic Surgery and is edited by Dr John H Braxton Articles will include Review of ICU Management of the Cardiac and Thoracic Surgery Patient and the Team Approach Minimally Invasive and Robotically Assisted Cardiac Surgery Surgical Treatment of Heart Failure The Changing Face of the Cardiothoracic Surgical Team Thoracic Trauma and Management Minimally Invasive and Robotically Assisted Thoracic Surgery The Impact on Less

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K. Ferguson, 2011-01-05 The second edition of Difficult Decisions in Thoracic Surgery An Evidence Based Approach addresses the growing complexity of decision making in thoracic surgery More than half of the clinical questions posed in this book are new and of the questions that remain as holdovers from the previous edition virtually all have been revised and updated As new technology is introduced physicians from nonsurgical specialties offer alternative and competing therapies for what was once the exclusive province of the thoracic surgeon In addition there is increasing knowledge regarding the efficacy of traditional thoracic surgical therapies How to select among these varied and complex approaches is becoming increasingly difficult Concise chapters are devoted to one or two specific questions or decisions in general thoracic surgery that are difficult or controversial The authors identify relevant publications in their selected topics grade the quality of the evidence offered by those reports apply that knowledge to objective management recommendations in an idealized world and then comment on how they personally use the information in their own clinical practices. The book is a valuable reference source for practicing surgeons surgeons in training and educators Atlas of Cardiac Surgical Techniques - E-BOOK Frank W. Sellke, Marc Ruel, 2024-12-11 Selected for 2025 Doody's Core Titles with Essential Purchase designation in Cardiac Surgery Offering a state of the art update in this challenging area of surgery Atlas of Cardiac Surgical Techniques Third Edition provides expert easy to navigate instruction on a wide variety of both open and interventional surgical techniques Ideal for both fellows and veteran surgeons this practical reference shows exactly how established technical masters perform a wide variety of select often complex cardiac operations Pearls and Pitfalls sections at the end of each chapter provide additional clinically important details allowing you to benefit from years of experience of established experts many of whom developed the operations they are describing Covers the surgical procedures you need to master in adult cardiac surgery including minimally invasive techniques robotic surgery aortic dissection and much more A variety of techniques are covered in order to offer multiple options for procedures Uses a vividly illustrated format with more than 550 full color images line drawings and intraoperative photographs that clearly depict the step by step progression of procedures Presents each procedure in a consistent easy to follow bulleted format guiding you from surgical anatomy and preoperative considerations through operative steps and postoperative care Features access to more than 30 surgical technique videos 13 new to this edition that highlight key states of surgical procedures Contains updates and rewritten chapters throughout as well as brand new chapters on Technical Considerations in Redo Cardiac Surgery Left Atrial Appendage Closure Surgery and Endovascular Techniques for Acute Pulmonary Embolism Diversity Considerations in the Practice of Adult Cardiac Surgery and Tips and Tricks in the Acquisition of Technical Skills in Adult Cardiac Surgery Provides fresh perspectives from multiple new contributing authors Any additional digital ancillary content may publish up to 6 weeks following the publication date Intelligence-Based Cardiology and Cardiac Surgery Anthony C. Chang, Alfonso Limon, Robert Brisk, Francisco Lopez-

<u>Intelligence-Based Cardiology and Cardiac Surgery</u> Anthony C. Chang, Alfonso Limon, Robert Brisk, Francisco Lopez-Jimenez, Louise Y Sun, 2023-09-06 Intelligence Based Cardiology and Cardiac Surgery Artificial Intelligence and Human

Cognition in Cardiovascular Medicine provides a comprehensive survey of artificial intelligence concepts and methodologies with real life applications in cardiovascular medicine Authored by a senior physician data scientist the book presents an intellectual and academic interface between the medical and data science domains The book s content consists of basic concepts of artificial intelligence and human cognition applications in cardiology and cardiac surgery This portfolio ranges from big data machine and deep learning cognitive computing and natural language processing in cardiac disease states such as heart failure hypertension and pediatric heart care The book narrows the knowledge and expertise chasm between the data scientists cardiologists and cardiac surgeons inspiring clinicians to embrace artificial intelligence methodologies educate data scientists about the medical ecosystem and create a transformational paradigm for healthcare and medicine Covers a wide range of relevant topics from real world data large language models and supervised machine learning to deep reinforcement and federated learning Presents artificial intelligence concepts and their applications in many areas in an easy to understand format accessible to clinicians and data scientists Discusses using artificial intelligence and related technologies with cardiology and cardiac surgery in a myriad of venues and situations Delineates the necessary elements for successfully implementing artificial intelligence in cardiovascular medicine for improved patient outcomes Presents the regulatory ethical legal and financial issues embedded in artificial intelligence applications in cardiology Cardiothoracic Surgery Ghaith Qsous, Malcolm Will, Vipin Zamvar, 2023-10-10 A concise summary of the most important clinical trials in cardiac and thoracic surgery The focus is on how evidence based decision making has helped to shape modern practice and quidelines The key trials are described and an overview of their impact provided Much research has been undertaken to study the efficacy of different drugs techniques and treatment strategies within cardiothoracic surgery As a result many randomised controlled trials have been published which discuss a wide variety of topics and with the intention of improving current practice and patient care This volume presents a selection of the key trials and assesses their impact Compact and easy to read the distillation of core information will enable the reader to understand the importance of the key papers that have influenced best practice across operating theatres clinics multi disciplinary meetings and inpatient management Including full summaries of more than 30 trials and reflecting the clinical scenarios encountered in everyday practice by cardiothoracic surgeons this concise volume is written for both trainee and more experienced members of the surgical team Peri-Operative Care in Cardiac Surgery Cristina Barbero, Marco Pocar, Luca Brazzi, Pierre-Gregoire Guinot, Ludhmila Hajjar, 2024-12-16 Owing to the pioneering discoveries and innovations within the cardiovascular field over the previous decades cardiac surgery has significantly evolved and reflects notable accomplishments within the medical field Given that cardiac surgery is associated with high morbidity and mortality rates much effort has been made over the years to improve peri operative outcomes this requires a multidisciplinary approach involving cardiac surgeons cardiologists and anesthesiologists Advances in cerebral protection extracorporeal circulation and anesthesiological management have all led

to better peri operative care though further research is essential to ensure better outcomes in this patient group Cardiothoracic Surgery in the Elderly Mark R. Katlic, 2011-05-04 Cardiothoracic Surgery in the Elderly Evidence Based Practice is an important and timely book that reflects the thoughtful work of pioneers in geriatric surgery It encompasses their knowledge related to geriatric surgery and their reflections and guidance on the rapidly accumulating knowledge related to improving the health and surgical care of seniors This book provides a scholarly review of the constantly expanding knowledge base about cardiovascular and thoracic surgery in seniors The book follows a logical sequence covering general aspects of care cardiac surgery and thoracic surgery Chapters are focused on common devastating and often missed complications of surgical care in the seniors These include delirium depression pressure sores functional losses incontinence volume depletion and asymptomatic or atypical complications myocardial infarction post operative diarrhea urinary track infections and pneumonia Each is expertly reviewed Strategies to help the surgeons and the surgical team anticipate recognize and effectively prevent or manage such problems are discussed and the evidence basis for such strategies is provided Cardiothoracic Surgery in the Elderly Evidence Based Practice is particularly timely and the first to review the substantial body of knowledge that has been developed in recent years related to geriatric cardiothoracic surgical problems It catalogs well the expanding knowledge basis for achieving successful surgical outcomes in the very old It provides a most useful resources for cardiovascular thoracic surgeons in training and those already in practice Cardiothoracic Surgery Joanna Chikwe, David Cooke, Aaron Weiss, 2013-01-31 Cardiothoracic Surgery covers all areas of adult and paediatric cardiac and thoracic surgery and intensive care This new edition with updated cardiac surgery and thoracic sections provides on the spot guidance to common and less common operative procedures Every chapter is divided into topics presented across two pages to enable easy reference with pages on intensive care edged in red for immediate access Completely updated with current evidence and guidelines the book is practically oriented to provide reliable guidance in intensive care and in theatre Fully indexed and lavishly illustrated the book is a must for anyone seeking a comprehensive yet portable guide to all areas of Clinical Perfusion for Cardiac Surgery Ahmed S. Awad, James DiNardo, Jiapeng cardiothoracic surgical practice Huang, Michael F. Hancock, 2025-09-25 Cardiac surgery is a very complex field of medicine that continues to evolve and cardiopulmonary bypass is an integral part of this field it is challenging for a trainee rotating in the cardiac surgery room to acquire scientific and practical knowledge of clinical perfusion without a good reference text This book fills the need for a clear focused and concise text on managing clinical perfusion with up to date knowledge This book equips the trainee the

junior cardiac anaesthesiologists the junior cardiac surgeon and the junior perfusionist with the fundamental concepts necessary for success in this field **Cardiac Surgery** Shahzad G. Raja,2020-02-11 This textbook provides a succinct overview of cardiac surgery with key concepts being emphasized throughout An abundance of illustrations intra operative photographs tables as well as information boxes aids the reader to visualise grasp and retain difficult concepts The inclusion

of evidence based approaches to the management of a range of cardiac surgical conditions equips the reader with an understanding of how to overcome a variety of potentially tough clinical challenges Concise Cardiac Surgery A Complete Guide comprehensively covers a range of techniques used in cardiac surgery It is therefore an ideal resource for the trainee and practising cardiac surgeon seeking a practically focused text detailing how to apply the latest techniques and evidence based approaches in their day to day practice Kaplan's Cardiac Anesthesia E-Book Joel A. Kaplan, David L. Reich, Steven N. Konstadt, 2011-04-11 Optimize perioperative outcomes with Kaplan's Cardiac Anesthesia Dr Joel L Kaplan and a host of other authorities help you make the best use of the latest techniques and navigate your toughest clinical challenges Whether you are administering anesthesia to cardiac surgery patients or to cardiac patients undergoing non cardiac surgery you ll have the guidance you need to avoid complications and ensure maximum patient safety Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Update your understanding of cardiovascular and coronary physiology and the latest advances in molecular biology and inflammatory response mechanisms Master the newest approaches to perioperative assessment and management including state of the art diagnostic techniques Tap into the latest knowledge about 2D and 3D transesophageal echocardiography anesthesia delivery for minimally invasive robotic cardiac surgery assist devices and artificial hearts cardiac pacing cardiac resynchronization therapy ablation techniques and more Access the complete contents online at Expert Consult plus additional online only features including an ECG atlas videos that demonstrate 2 D and 3 D TEE techniques in real time and an Annual Year End Highlight from the Journal of Cardiovascular Anesthesia that s posted each February Clearly visualize techniques with over 800 full color illustrations Sensing, Modeling and Optimization of Cardiac Systems Hui Yang, Bing Yao, 2023-08-18 This book reviews the development of physics based modeling and sensor based data fusion for optimizing medical decision making in connection with spatiotemporal cardiovascular disease processes To improve cardiac care services and patients quality of life it is very important to detect heart diseases early and optimize medical decision making This book introduces recent research advances in machine learning physics based modeling and simulation optimization to fully exploit medical data and promote the data driven and simulation guided diagnosis and treatment of heart disease Specifically it focuses on three major topics computer modeling of cardiovascular systems physiological signal processing for disease diagnostics and prognostics and simulation optimization in medical decision making It provides a comprehensive overview of recent advances in personalized cardiac modeling by integrating physics based knowledge of the cardiovascular system with machine learning and multi source medical data It also discusses the state of the art in electrocardiogram ECG signal processing for the identification of disease altered cardiac dynamics Lastly it introduces readers to the early steps of optimal decision making based on the integration of sensor based learning and simulation optimization in the context of cardiac surgeries This book will be of interest to researchers and

scholars in the fields of biomedical engineering systems engineering and operations research as well as professionals working in the medical sciences *Bioethical Controversies in Pediatric Cardiology and Cardiac Surgery* Constantine Mavroudis, J. Thomas Cook, Constantine D. Mavroudis, 2020-02-28 This title reviews the bioethical issues in congenital heart disease and other difficult pediatric cardiology and cardiac surgical situations. It provides considered opinions and recommendations as to the preferred actions to take in these cases stressing the importance of making informed decisions that are bioethically sound and doing so using considered reasoning of all the related sensitive issues Bioethical Controversies in Pediatric Cardiology and Cardiac Surgery provides detailed recommendations on potential solutions to make bioethical decisions in difficult clinical scenarios. There is particular emphasis on controversies involving surgery for hypoplastic left heart syndrome futility informed consent autonomy genomics and beneficence. It is intended for use by a wide range of practitioners including congenital heart surgeons pediatric cardiologists pediatric intensivists nurse practitioners physician s assistants and clinical ethicists

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