

Carpentiers Reconstructive Valve Surgery From Valve Analysis To Valve Reconstruction

The Patient's Guide to Heart Valve Surgery Heart Valve Surgery Transcatheter Valve Repair Minimally Invasive Heart Surgery Minimally Invasive Cardiac Surgery Mitral Valve Surgery Operative Mitral and Tricuspid Valve Surgery Minimally Invasive Cardiac Surgery: State of the art and current challenges Minimally Invasive Thoracic and Cardiac Surgery Robotic Surgery Cardiac Surgery Cardiac Surgery in the Adult 5/e Heart Valve Surgery Braunwald's Heart Disease E-Book Mitral Valve Surgery Carpentier's Reconstructive Valve Surgery The Patient's Guide to Heart Valve Surgery Surgery for Acquired Mitral Valve Disease Endoscopic Mitral Valve Surgery Aortic Valve Surgery Adam Pick Jan Dominik Ziyad M. Hijazi Cevdet Ugur KOCOGULLARI Theo Kofidis Robert S. Bonser Narain Moorjani Tomas Holubec Rolf Gilbert Carl Inderbitzi Farid Gharagozloo Shahzad G. Raja Lawrence H. Cohn Sameh M. Said Douglas L. Mann Alain Carpentier Adam Pick Franklin Henry Ellis Ralf Krakor Noboru Motomura

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each year over 250 000 heart valve repair and heart valve replacement operations are performed for conditions including stenosis prolapse insufficiency aneurysm tetralogy of fallot and regurgitation however most patients and caregivers surveyed felt their expectations were mismanaged both before and after surgery the patient s guide to heart valve surgery was written by adam pick a double heart valve surgery patient to address this troubling issue and prepare the patient and caregiver for the challenges and opportunities of valve surgery from diagnosis through recovery

t e four heart valves reside in the center of the heart t is indicates their crucial role in cardiac performance fau less function of the valves is a prerequisite for unidir tional forward movement of the blood and such function is necessary to support the ef orts of the cardiac atria and ventricles healthy heart valves function gracefully and of er mechanical durability bioengineers have to marvel at the biomechanical evolution of

these perfectly placed valves heart valves can be involved in pathological processes however and only then do we realize just how indispensable they really are at one time serious valve disorders used to be a matter of life and death for patients only in recent decades have surgeons been able to reverse the ominous course of heart valve disease and of our patients a quality of life and life span comparable to that of healthy persons the story of this effort began approximately 100 years ago and today heart valve surgery is a substantial subspecialty of cardiac surgery with accumulated experience in indications procedures risks and outcomes the aim of this book is to present a richly illustrated compendium of the present knowledge related to heart valve surgery based on the clinical expertise of the authors as well as the newest treatment modalities the authors thank Dr Alireeza Matloobi from the Mayo Clinic for his help in preparing the book

transcatheter valve repair discusses all aspects related to percutaneous and established valve repair methods the book is divided into few major sections covering all four valves and other topics each section contains several chapters discussing everything related to that valve beginning with the pulmonary valve since it was the first valve to be tackled in the catheterization laboratory and then moving to the aortic then the mitral and then finally end with the tricuspid valve 1.5m US citizens alone have some degree of aortic valve stenosis with half 750k requiring aortic valve replacement aortic valve replacement on the whole is performed by surgeons requiring bypass machines and technicians as well as the usual operating team the operation is expensive and occupies a considerable amount of operating room time mostly the aortic valve is calcified and the usual option available to patients is valve replacement with a variety of choices ranging from porcine valves to synthetic for which there are many manufacturers it should be noted that the aortic valve is the most problematic of valves percutaneous procedures are the answer the bottom line is that given the growing elderly population many more patients will require valve repair thus increasing health care costs with not only surgical operations but also hospitalisation percutaneous valve repair whilst requiring a cath lab team does not involve bypass machines nor extended hospitalisation like percutaneous transluminal coronary artery interventions PTCA has replaced coronary artery bypass grafts once the golden standard and now stenting having replaced PTCA and its balloons we now see drug eluting stents replacing ordinary stents though at a much higher cost there will be a huge movement toward percutaneous valve repair which should presumably cut costs but also morbidity and mortality

minimally invasive cardiac surgery mics is an integral component of every future cardiac surgeon's training there continues to be a growing global demand towards less invasive surgical techniques both cardiologist and cardiac surgeon form heart teams to provide patients with novel minimally invasive procedures with all their benefits less invasive techniques are often complex and require special knowhow and skills this book offers an innovative approach to learning utilizing QR code technology which refers the reader to essential audio visual material which along with the didactic text focuses on practical aspects of minimally invasive cardiac surgery in modern heart teams and with the advent of the hybrid era surgeons will only be able to survive if they have state of the art skills in less invasive technologies which can be incorporated in the hybrid theatre and or trans catheter arena this text accompanies the surgeon along this path and provides clinical advice and practical solutions beyond the necessary basic knowledge which courses to visit which videos to watch which centres to join for serious training how best to exploit public and multimedia how to consent a patient into a

mics procedure how to set up a mics program or practice in the era of value driven outcomes and a shift towards shorter and better patient journeys mics is a skill that no heart surgeon can be without minimally invasive cardiac surgery a practical guide is a teaching resource reference book and manual written by surgeons who both operate and teach the procedures described within provides access to online resources via qr codes includes links to videos and the e version of the text acts as a gateway to a huge choice of minimally invasive cardiac surgery materials

part of the monographs in cardiac surgery series introducing basic science into the cardiac operating room fast systematic review of small areas of cardiac surgery including up to date information this will allow more rapid publication than the alternative cardiac surgery tomes this entry into the series will provide readers with a complete review of the current understanding in mitral valve surgery and include extensive details on the diagnosis and surgical management of patients with mitral valve disease

this book reviews the surgical management of the mitral and tricuspid valves it provides a detailed examination of the recent exponential improvements in the understanding of the pathophysiology of the disease processes affecting these valves which has resulted in significant changes in the strategies that can be applied chapters include analysis of the basic sciences related to the anatomy and physiology of the mitral and tricuspid valves pre operative imaging of these valves illustrating the variety of pathologies encountered and critically a comprehensive step by step approach to the peri operative management and surgical techniques pertaining to each pathological process operative mitral and tricuspid valve surgery systematically covers all major topics involved in the current practice of an adult cardiac surgeon who performs operations on the mitral and tricuspid valves it is therefore suitable for the cardiac intensive care unit specialist interested in improving their knowledge of cardiac patient management it is an essential resource for all adult cardiac surgeons and cardiac intervention specialists at any stage of their career

as a result of the significant progress in the development of emerging technologies and improved surgical techniques in the cardiovascular field minimally invasive cardiac surgery mics has undergone a rapid evolution over the past two decades currently nearly half of all cardiac surgeries are performed through small skin incisions minithoracotomy and ministernotomy or involve other less invasive approaches no involvement of cardiopulmonary bypass valve sparing operations etc this trend continues to evolve notably with the development of increasingly efficient endoscopic robotic and transcatheter procedures

it is now 20 years since thoracoscopic surgery first entered everyday hospital practice revolutionizing surgery and offering major benefits to patients the intervening years have witnessed rapid progress with the development of a variety of specialized techniques and equipment this superbly illustrated book provides authoritative and comprehensive descriptions of the various minimally invasive techniques that are currently employed in thoracic and cardiac surgery a wide range of thoracoscopic procedures are explained and discussed and detailed attention is also paid to robotic and robot assisted surgical techniques throughout the emphasis is on clear description of procedures and identification of practical aspects of relevance in surgical practice the authors are some of the world s most experienced thoracic and cardiac surgeons and many of them have contributed greatly to the exploration and development of the field

the first edition of robotic surgery was written only a decade after the introduction of robotic technology it was the first comprehensive robotic surgery reference and represented the early pioneering look ahead to the future of surgery building upon its success this successor edition serves as a complete multi specialty sourcebook for robotic surgery it seeks to explore an in depth look into surgical robotics and remote technologies leading to the goal of achieving the benefits of traditional surgery with the least disruption to the normal functions of the human body written by experts in the field chapters cover the fundamental principles of robotic surgery and provide clear instruction on their clinical application and long term results most notably one chapter on the blueprint for the establishment of a successful robotic surgery program lessons from admiral hyman rickover and the nuclear navy outlines the many valuable lessons from the transformative change which was brought about by the introduction of nuclear technology into the conventional navy with safety as the singular goal of the change process robotics represents a monumental triumph of surgical technology undoubtedly the safety of the patient will be the ultimate determinant of its success the second edition of robotic surgery aims to erase the artificial boundaries of specialization based on regional anatomy and serves as a comprehensive multispecialty reference for all robot surgeons it allows them to contemplate crossing boundaries which are historically defined by traditional open surgery

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

the most comprehensive and current full color cardiac surgery resource updated by leading surgeons a doody's core title for 2024 2022 in cardiac surgery in the adult fifth edition the world's foremost cardiovascular surgeons deliver thorough up to date coverage of operative strategy decision making technique and pre and post operative management for treating the adult cardiac patient unmatched in both scope and clinical rigor this classic text contains 63 chapters that highlight every important topic in cardiovascular surgery presented in full color cardiac surgery in the adult takes readers through the optimal treatment of congenital acquired infectious and traumatic diseases of the heart and great vessels the book opens with a history of cardiac surgery and basic cardiac science then moves into all types of cardiac surgery providing both practicing surgeons and residents with insight into the very latest surgical protocols cardiac surgery in the adult is logically divided into ten sections basics includes history anatomy physiology pharmacology computed tomography risk assessment simulation and the fully integrated cardiovascular center perioperative intraoperative care ischemic heart disease aortic valve disease mitral valve disease surgery of the great vessels rhythm surgery other cardiac operations including congenital heart disease pericardial disease and cardiac neoplasms transplant and mechanical circulatory support the fifth edition has been updated throughout and includes the latest advances in minimally invasive surgery and simulation

this year marks the 70th anniversary of the first artificial heart valve which was implanted in 1952 by charles hufnagel to treat a 30 year old woman with severe aortic regurgitation in an era when the concept of direct valve repair or replacement did not exist it is remarkable how far we have come since then in terms of managing heart valve disease not only in terms of advances in surgical techniques or choice of prostheses for different valve pathology but also in terms of transcatheter therapy and minimally invasive surgical approaches this book reviews important and major milestones in managing different valve pathologies with a focus on aortic and tricuspid valve diseases

ideal for cardiologists who need to keep abreast of rapidly changing scientific foundations clinical research results and evidence based medicine braunwald s heart disease is your indispensable source for definitive state of the art answers on every aspect of contemporary cardiology helping you apply the most recent knowledge in personalized medicine imaging techniques pharmacology interventional cardiology electrophysiology and much more practice with confidence and overcome your toughest challenges with advice from the top minds in cardiology today who synthesize the entire state of current knowledge and summarize all of the most recent acc aha practice guidelines locate the answers you need fast thanks to a user friendly full color design with more than 1 200 color illustrations learn from leading international experts including 53 new authors explore brand new chapters such as principles of cardiovascular genetics and biomarkers proteomics metabolomics and personalized medicine access new and updated guidelines covering diseases of the aorta peripheral artery diseases diabetes and the cardiovascular system heart failure and valvular heart disease stay abreast of the latest diagnostic and imaging techniques and modalities such as three dimensional echocardiography speckle tracking tissue doppler computed tomography and cardiac magnetic resonance imaging consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability

carpentier s reconstructive valve surgery presents you with authoritative guidance on reconstructive techniques for degenerative mitral valve disease alain carpentier md phd who pioneered the field david h adams md and farzan filsoufi md provide step by step instructions for each procedure and over 200 detailed anatomic drawings so that you can effectively apply the techniques of a master apply the techniques and procedures of dr alain carpentier pioneer of mitral valve reconstruction to your practice view more than 200 detailed anatomic drawings that depict reconstruction procedures clearly master each procedure using step by step instructions and a consistent chapter format grasp the nuances of procedures thanks to tips from the master and a section of questions and answers tap into the knowledge and experience of leaders in the field of mitral valve repair and reconstruction

the minimally invasive or endoscopic mitral valve surgery is one of the most attractive and most interesting areas of the modern heart surgery the book describes first all practical steps necessary in a clinic from the idea of the introduction of the minimally invasive mitral valve surgery up to practical realization of the operation program the initial explanation of organizational and financial aspects allows an exact resource planning and protects against wrong expectations and failures an extensive and detailed representation of the reconstruction technologies possible today as well as the specific features of her endoscopic application allow

quick learning of the surgical technology numerous tips and tricks and informative pictures of the most frequent findings and the accompanying reconstruction technologies underline the practical orientation of the book

the aortic valve is located at the center of the heart it is the core of cardiac anatomy and aortic valve surgery has led the field of cardiac surgery this book describes all aspects of aortic valve surgery and it will help clarify daily questions regarding the clinical practice in aortic valve surgery as well as induce inspiration and new insights into this field

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