

Arterial Grafting For Coronary Artery Bypass Surgery

The book Coronary Artery Bypass Graft Surgery is an excellent update for health care professionals, taking care of patients who are being considered for or who have had coronary artery bypass graft surgery. The 8 chapters in this book are all written by experts in their topics. This excellent book provides the practicing physician and other healthcare personnel, who take care of patients with coronary artery disease, new information valuable in care of patients with coronary artery disease.

Coronary Artery Bypass—Advances in Research and Application: 2012 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Coronary Artery Bypass in a concise format. The editors have built Coronary Artery Bypass—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Coronary Artery Bypass in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Coronary Artery Bypass—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority,

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In this book it is shown how this specialty has evolved over the past 20 years, with significant advances in diagnosis and palliative and definitive techniques for correction of cardiovascular diseases. The book contains 10 cahpters, which are showing the classical adult and pediatric cardiac surgery.

In the intervening 10 years tremendous advances in the field of cardiac computed tomography have occurred. We now can legitimately claim that computed tomography angiography (CTA) of the coronary arteries is available. In the evaluation of patients with suspected coronary artery disease (CAD), many guidelines today consider CTA an alternative to stress testing. The use of CTA in primary prevention patients is more controversial in considering diagnostic test interpretation in populations with a low prevalence to disease. However the nuclear technique most frequently used by cardiologists is myocardial perfusion imaging (MPI). The combination of a nuclear camera with CTA allows for the attainment of coronary anatomic, cardiac function and MPI from one piece of equipment. PET/SPECT cameras can now assess perfusion, function, and metabolism. Assessing cardiac viability is now fairly routine with these enhancements to cardiac imaging. This issue is full of important information that every cardiologist needs to now.

The sixth edition of this acclaimed and established operative atlas continues to provide

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a unique level of comprehensive detail on operative surgery of the heart and great vessels. With an international list of authors, the chapters have been updated and complemented by the same high quality artwork that has established this operative guide as the gold standard reference for the cardiac surgeon. This new edition retains the format of initial principles and justification for the procedure, followed by preoperative investigations and preparation, the operative procedure, and postoperative management. New chapters have been added on the latest techniques such as minimal invasive surgery, robotic surgery and off-pump bypass surgery. The chapters are arranged in seven sections, with each section emphasising the overall management of patients, tricks of the trade of individual authors and discussion of technical and clinical judgement. With this new and updated edition, Operative Cardiac Surgery remains the pre-eminent operative guide to a full range of cardiac conditions. Video clips of cardiac procedures, both common and rare, are included within the VitalSource edition. Print Versions of this book also include access to the ebook version.

With a vast background of personal experience and a review of more than 300 references, Dr. Segesser has written a book to close the gap between the theory and practice of coronary artery revascularization. In particular, he shows the possibilities and limitations of internal mammary artery grafting in this surgical procedure. The chapters guide you to a thorough understanding of the subject, from anatomy and pathology, to experimental studies and the history of first surgical attempts, to clinical

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application and results. The discussion of long-term follow-up, complications and re-operations point to areas of success as well as subjects for future research. The details provided here about operative strategies and their outcomes give the cardiovascular surgical team important feedback about present practices which will help lead to improved clinical results.

Vein graft maladaptation, leading to poor long-term patency, is a serious clinical problem in patients receiving coronary artery bypass grafts (CABGs). Mechanics is known to play a key role as a stimulus contributing towards vein graft failure. Mechanical stimuli are key to understanding disease progression and clinically observed differences in failure rates between arterial and venous grafts following coronary artery bypass graft surgery. But little has been done to quantify the mechanics in these grafts and its effects on long-term outcomes on grafts. Hence, one of the goals of this thesis was to quantify mechanical stimuli acting on the grafts and the other goal was to develop continuum mechanics based models of growth and remodeling (G&R) to simulate long-term adaptation. We quantify biologically relevant mechanical stimuli, not available from standard imaging, in patient-specific simulations incorporating non-invasive clinical data. We couple computational fluid dynamics with closed-loop circulatory physiology models to quantify biologically relevant indices, including wall shear, oscillatory shear, and wall strain. We account for vessel-specific material properties in simulating vessel wall deformation. Wall shear was significantly lower and

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atheroprone area significantly higher in venous compared to arterial grafts. Wall strain in venous grafts was significantly lower than in arterial grafts while no significant difference was observed in oscillatory shear index. Simulations demonstrate significant differences in mechanical stimuli acting on venous vs. arterial grafts, in line with clinically observed graft failure rates, offering a promising avenue for stratifying patients at risk for graft failure. We also propose a computational model of venous adaptation to altered hemodynamics based on a constrained mixture theory of G&R. We identify constitutive parameters that optimally match biaxial data from a mouse vena cava, then numerically subject the vein to altered hemodynamic conditions and quantify the extent of adaptation. We identify constitutive relations and parameters that enable adaptations for a moderate perturbation in hemodynamics. We then fix these relations and parameters, and subject the vein to a range of combined loads (pressure and flow), from moderate to severe, and identify plausible mechanisms of adaptation versus maladaptation. We also explore the beneficial effects of a gradual increase in load on adaptation.

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

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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 latest diagnostic and therapeutic modalities in the management of coronary artery disease by coronary artery bypass graft surgery and by percutaneous coronary intervention with stenting and in the interventional management of other atherosclerotic vascular disease have led to a reduction in cardiovascular mortality and morbidity. This book entitled *Artery Bypass* provides an excellent update on these advances which every physician seeing patients with atherosclerotic vascular disease should be familiar with. This book includes 27 chapters written by experts in their topics.

Problem: Numerous studies reveal both drug eluting stent percutaneous coronary intervention (DES-PCI) and coronary artery bypass graft surgery (CABG) are effective procedures to treat severe coronary artery disease (CAD), but which one is the better treatment choice? This review will go over the studies in recent years that compare the effectiveness of the two procedures in treating left main coronary artery or multi-vessel CAD. **Methods:** The Weill Cornell Medical College library website portal was used to check the original studies and review articles. Online resources such as Harrison's Principles of Internal Medicine and Uptodate.com were used. **Results:** Thirty-one articles and science conference reports were selected out of a total of 66 articles reviewed. DES-PCI studies published before 2004 were

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excluded due to the procedures were not fully introduced until 2003. Articles not published in English and articles only available for purchase were excluded. Clinical trials that involved large numbers of patients were preferred to bring more statistical power to this study.

Conclusions: Both CABG and PCI have advantages and shortcomings. PCI is a faster, less traumatic procedure compared to CABG and has been improved by using drug-eluting stents. CABG with arterial grafts has lower a revascularization rate. PCI is suggested to treat less complicated patients; CABG with arterial grafts is considered the best treatment choice in severe CAD. No research has been done to directly compare treatment outcomes between DES-PCI and venous grafts only CABG in patients with severe CAD, especially those requiring emergent revascularization.

The use of the left internal mammary artery (IMA) has been shown to improve long-term survival and has been a gold standard in coronary artery bypass grafting (CABG). However, the choice of second or third graft conduit is still controversial. Multiple studies demonstrated the benefit of using multiple arterial grafts such as right IMA and radial artery in addition to left IMA in terms of long-term survival and graft patency. However, most of the centers still perform CABG with one IMA and vein grafts in a real world. The challenges for bilateral IMA utilization include longer operative time and concerns for higher rates of perioperative morbidity and mortality associated with increased sternal wound infection. Several studies reported that skeletonization technique can reduce the risk of sternal wound infection. Radial artery is another arterial conduit, which does not increase the risk of sternal wound infection and is easy to harvest. The superiority between radial artery and right IMA has been controversial. In the meantime, multiple trials have been made to improve the patency of vein grafts. The choice of

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graft conduits in CABG should be well considered preoperatively based on each patient's backgrounds.

This new bedside manual guides you through all the practical aspects of managing patients following cardiothoracic surgery and critically ill cardiology patients. Primarily designed to use in cardiothoracic intensive care units and coronary care units, it covers the perioperative management for the full range of cardiothoracic surgical procedures, the management of complications, and related issues. Core topics in cardiothoracic critical care, such as hemodynamic instability, arrhythmias, bleeding, and mechanical cardiac support, are afforded broad coverage. Also included are sections on advanced ventilatory techniques and veno-venous ECMO for treating severe respiratory failure, as well as nutritional support, treating and preventing infection, renal failure, and care of the dying patient. Concisely written and featuring liberal use of illustrations as well as an integrated, tightly edited style, and a limited number of key references, this volume will become your reference of choice for the care of of cardiothoracic surgery patients and critically ill cardiology patients. Find information quickly with concisely written text. Get a more complete picture with extensive illustrations. Focus on just the information you need using a a limited number of key references. Navigate the complexities of critical care for a fullll range of cardiothoracic surgery patients with in-depth coverage of perioperative care, management of complications, and more.

Redo cardiac surgeries are challenging cases with a myriad of influential factors, ranging from the patient's pathology to the whimsy of the previous surgeon. Redo Cardiac Surgery in Adults, 2nd Edition clearly outlines practical approaches, surgical techniques, and management of associated conditions such as perioperative stroke and acute kidney function. It covers the

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spectrum of redo cardiac operations, including coronary artery bypass, mitral valve repair, reoperation for prosthetic mitral valve endocarditis, aortic arch reoperation, descending and thoracoabdominal aortic reoperation, and reoperations following endovascular aortic repair. All redo cardiac surgeries present a complex array of challenges beyond what the original procedure demands. This book, written by an outstanding group of prominent physicians, will give the reader the knowledge and tools to approach these cases with confidence.

State of the Art Surgical Coronary Revascularization is the most authoritative textbook ever dedicated to the art and science of surgical coronary revascularization, with 71 chapters, organized in 9 sections, and written by over 100 recognized world experts. It covers every aspect of the surgical management of coronary artery pathology and ischaemic heart disease. It provides extensive sections detailing pathophysiology, evaluation and medical and percutaneous management of ischaemic heart disease as well general outcomes and quality assessment for coronary artery bypass grafting (CABG). Pre-, intra- and postoperative management of CABG patients is emphasized in detail as are the core surgical principles in the conduct of CABG, with special focus on the selection of conduits and how to optimize the performance of both on- and off-pump surgery to reduce morbidity and mortality. There are detailed sections on how to improve outcomes with both arterial and venous bypass grafts. This comprehensive textbook also covers in detail less invasive approaches for CABG, CABG in special clinical situations and when CABG is combined with concomitant surgical procedures. In addition to underpinning all chapters with a strong and updated evidence basis, crucial practical surgical techniques are emphasised throughout, making this textbook the indispensable companion of all adult cardiac surgeons and allied health professionals

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interested in surgical coronary revascularization.

Leading clinicians and researchers from around the world review the full scope of current developments, research, and scientific controversy regarding the principles and applications of cardiac CT. Richly illustrated with numerous black-and-white and color images, the book discusses the interpretation of CT images of the heart in a variety of clinical, physiological, and pathological applications. The authors emphasize current state-of-the-art uses of CT, but also examine developments at the horizon. They also review the technical basis of CT image acquisition, as well as tools for image visualization and analysis.

Coronary artery bypass surgery has been developed since 1960s to overcome proximal coronary artery disease. Worldwide, the number of patients that are undergoing coronary artery bypass surgery is steadily increasing. Depending on diverse risk factors, one fifth of grafts are occluded at 1 year. For the remaining, graft patency last usually 8–15 years. This book brings together the main specialists in the field to review the current evidence on epidemiology, pathophysiology, diagnostic, new imaging techniques and specific therapeutic modalities. This volume aims to update a complex subject represented by coronary graft failure. The authors of this monograph are interventional cardiologists, cardiovascular surgeons and research scientists, who will be creating four parts and 71 chapters that are divided in order to give a uniform interpretation of this condition including all aspects of coronary graft failure This book not only provides the most up-to-dated scientific evidence in the field but in a two-step manner. Each chapter is divided into a at a glance part that reflects the basic evidence on the topic, and a “full picture” part that brings all what the advanced reader should be brought with.

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Continued advances in cardiology have led to unprecedented scientific progress in recent years. However, no matter how advanced the science, the successful application of interventional cardiology relies upon a practitioner's ability to approach interventional techniques competently and confidently in every situation. Fully updated and featuring new chapters and additional tips and tricks, this latest edition of Dr Nguyen, Colombo, Hu, Grines, and Saito's celebrated book provides a complete yet concise guide to practical interventional cardiology that deserves a place in every cardiac laboratory. Culled from the personal experience of over fifty international experts, the book incorporates more than 500 practical tips and tricks for performing interventional cardiovascular procedures. Each strategic or tactical move is graded by complexity level and described in a simple, step-by-step approach that includes guidance on how to overcome practical difficulties, providing a comprehensive resource that can benefit both beginner or experienced operators. As well as covering the latest developments in interventional cardiology, this third edition includes technical tips that promote user-friendly performance, low complication rates, cost- and time-efficient approaches and cost- and time-effective selection of devices to help optimize the practice of modern interventional cardiology.

This edited volume *Cardiac Surgery Procedures* is a collection of reviewed and relevant research chapters, offering a comprehensive overview of recent developments in the field. The book comprises single chapters authored by various researchers and edited

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by experts active in the research area. All chapters are complete in themselves but united under a common research study topic. This publication aims at providing a thorough overview of the latest research efforts by international authors and opens new possible research paths for further novel developments.

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Expert guidance from internationally recognized authorities, who provide clear and current updates on all aspects of interventional cardiology. This new edition; Contains a radically expanded chapter contents list presented in four clear sections; coronary interventions, interventional pharmacology, structural heart interventions, and endovascular therapy Includes 46 new chapters, including the latest advances in bioresorbable coronary stents, advanced transcatheter aortic valve replacement, MitraClip, new transcatheter mitral valve interventions, and more Chapters are templated for rapid referral, beginning with pathophysiological background and relevant pathology, moving to mechanisms of treatment, device description, procedural techniques, follow-up care, and ending with risks, contraindications and complications Multiple choice questions at the end of each chapter for self-assessment, a total of more than 400 MCQs in the book Features 19 procedural videos, hosted on a companion website

Cardiothoracic Surgery covers all areas of adult and paediatric, cardiac and thoracic

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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 cardiothoracic surgical practice.

This book provides an invaluable practically applicable and comprehensive manual to coronary artery bypass grafting (CABG) surgery. Critical concepts and techniques are discussed in an easy-to-follow and understand step-by-step guide, featuring a wealth of intraoperative photos and illustrations with concise and instructive descriptions. Topics covered include classical sternotomy, variants of arterial revascularization, off-pump and minimally invasive techniques (MICS-CABG). Operative Techniques in Coronary Artery Bypass Surgery provides invaluable assistance to residents, fellows and trainee surgeons by explaining theoretical and technical aspects of the latest advances in procedural techniques and therapy personalization to optimize CABG surgical outcome. Considering that any heart team depends entirely on the participants' knowledge and their willingness to cooperate, this work allows cardiologists and the other participants of a heart team to better understand the strengths and limitations of state-of-the-art

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surgical coronary revascularization. The concepts synthesized within the checklists and decision algorithms provided also enable the reader to develop their knowledge of which technique is the most appropriate for a particular patient.

Atherosclerosis and related ischemic cardiac diseases are among the leading causes of death worldwide. To combat this, coronary artery bypass grafting (CABG) surgery has been applied for around the past 50 years. This volume discusses various aspects of CABG, in line with up-to-date information and practical experience from cardiovascular surgeons.

In the early days of cardiac surgery, but also in the following four decades, median sternotomy and cardiopulmonary bypass were nearly always included in cardiac surgical procedures. Less invasive surgical techniques were developed with the aim of reducing perioperative trauma without compromising the surgical result, and things became more complex for cardiac surgeons. They now often had to consider the surgical access of choice and whether cardiopulmonary bypass should be used or not. Since the mid 1990s, not only have several novel minimally invasive surgical techniques been presented, but also further refinements have been recommended from time to time. This work comes to fill a gap in the field of coronary artery bypass grafting and conduit harvesting in cardiac surgery, by gathering the mature version of such new, less invasive techniques combining safety, effectiveness, simplicity, sometimes even reducing procedural costs and that always for the patient's and for the surgeon's sake.

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Get expert, step-by-step guidance on a wide variety of both open and interventional cardiac surgical techniques. Atlas of Cardiac Surgical Techniques, 2nd Edition, helps you expand your surgical repertoire and hone your skills with a vividly illustrated, easy-to-navigate text and pearls and pitfalls throughout. This revised atlas covers the surgical procedures you need to master, including minimally invasive techniques, robotic surgery, aortic dissection, and much more. Seven brand-new chapters cover Hybrid Coronary Revascularization, Aortic Valve Repair Techniques, Transcatheter Aortic Valve Replacement, Robotic Mitral Valve Surgery, Surgery for Hypertrophic Cardiomyopathy, Approaches and Techniques to Extra-Corporeal Membrane Oxygenation, and Pulmonary Endarterectomy. Multiple new contributing authors offer a fresh perspective in their areas of expertise. A consistent chapter format guides you quickly from surgical anatomy and preoperative considerations through operative steps and postoperative care. More than 400 full-color images, line drawings, and intraoperative photographs clearly depict the step-by-step progression of procedures.

This book discusses the principles, applications, benefits, and pitfalls of off-pump coronary artery bypass (OPCAB) surgery, and provides information on the surgical strategies adopted and the anesthetic management considerations for

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patient undergoing OPCAB surgery.

Problem: Diabetes mellitus is a disease affecting 8% of the US population, and is a major risk factor for coronary artery disease. In fact, 65% of patients with diabetes mellitus will die from some complication of coronary artery disease or stroke. Many of these patients will likely undergo some type of coronary artery intervention during their lifetimes, including coronary artery bypass and grafting (CABG) surgery. It is of critical importance that the optimal surgical treatment is offered to these patients. **Methods:** A PubMed search was made of the literature utilizing both the Weill Cornell Medical Library and Johns Hopkins Medical Library resources. Only full text, English language articles were used in this review. Articles targeting diabetes mellitus, coronary artery revascularization, radial artery grafting, CABG surgery, and saphenous/arterial conduit were reviewed. **Results:** Most of the articles found an advantage to the utilization of all-arterial grafting for patients undergoing CABG surgery. Diabetic patients showed an overall benefit in relief from symptoms and better long-term results when they received arterial grafts during CABG surgery. Endothelial damage, metabolic syndrome, poorer wound healing, and increased incidence of coronary artery disease are all concerns in this subgroup of patients. **Conclusions:** Diabetic patients undergoing CABG surgery have an even greater need to have optimal

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treatment than their non-diabetic counterparts. As arterial grafts show benefit in long-term patency over traditional saphenous vein grafts, diabetic patients should be offered all-arterial grafting whenever possible. The radial artery may prove to be the best choice to graft the right coronary artery in diabetic patients.

This updated edition examines the biological characteristics and clinical use of arterial grafts for coronary artery bypass surgery. It contains first-hand information on arterial grafts, as well as vein grafts with regard to biological characteristics, clinical use including off-pump coronary bypass grafting surgery, results, and future developments. The book is a practical guide and as a stimulus for further improvement of arterial grafting techniques.

In non-fatal cases, cardiovascular diseases are associated with a decreased quality of life as well as a substantial economic burden to society. Most sudden cardiac events are related to the complications of a non-stenosing marginal plaque. For this reason, the ability to properly identify the atherosclerotic plaque with rapid, non-invasive techniques is of utmost clinical interest in diagnostic workup and therapeutic planning of symptomatic patient. Nowadays CT produces high-quality images of the coronary arteries, in addition to defining their location and the extent of the atherosclerotic involvement. This new edition is enriched with two important additions. Firstly, dedicated chapters on intravascular

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ultrasound (IVUS), catheter angiography, and nuclear imaging have been included, with some discussions on theoretical techniques such as optical coherence tomography (OCT) and magnetic resonance imaging (MRI). Secondly, a completely new section comprising more than 70 clinical cases remarkably expands the horizons reached by the previous edition. This volume provides general practitioners and cardiologists with a basic understanding of the imaging techniques. For radiologists with no direct experience in cardiac imaging, the book serves as an important source of information on coronary pathophysiology and anatomy.

This is the most authoritative textbook ever dedicated to the art and science of surgical coronary revascularization, with 71 chapters, organized in 9 sections, and written by over 100 recognized world experts. It covers every aspect of the surgical management of coronary artery pathology and ischaemic heart disease. Cardiovascular diseases are still the leading cause of death in developed countries. Revascularization procedures such as coronary artery and peripheral bypass grafts, as well as access surgery represent a 2\$ billion market yearly for the US alone. Despite intense research over many decades, no clinically suitable, shelf-ready, synthetic, vascular, small-caliber graft exists. There is therefore still a quest for such a clinical vascular prosthesis for surgical

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revascularization procedures and access surgery. Many approaches have been tried and are currently under investigation with promising results. These range from acellular and cell-based, stable or bio-degradable, synthetic scaffolds to biological or decellularized grafts, not forgetting self-assembly technologies for in vitro or in vivo VTE. All these approaches can be further enhanced by functionalization, e.g. with growth factors and drug elution. This updatable book aims to cover all the relevant aspects of Vascular Tissue Engineering (VTE) and novel alternatives to develop vascular grafts for clinical applications. The chapters in this book cover different aspects of manufacturing scaffolds with various polymers, mechanical characteristics, degradation rates, decellularization techniques, cell sheet assembly, 3-D printing and autologous mandril-based VTE. All the necessary in vitro tests such as biocompatibility and thrombogenicity are reviewed. Pre-clinical assessment of in vivo experimental models include patency, compliance, intimal hyperplasia, inflammatory reaction, cellular ingrowth and remodeling. Finally, early clinical trials will be periodically updated regarding results, regulatory aspects and post-marketing quality assessment. Furthermore, the reader should get an insight into various approaches, technologies and methods to better understand the complexity of blood surface and cell interactions in VTE. Translational research has yielded early human applications

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clearly showing the enormous need of research in the field to provide better solutions for our patients and this continuously updated book will hopefully become a reference in the field for life sciences.

This book, *The Current Perspectives on Coronary Artery Bypass Grafting*, is an excellent update for health care professionals taking care of patients suffering from severe coronary artery disease. The nine chapters in this book were written by experts in their fields. The first section describes the hemodynamic mechanism and medical management of coronary artery disease. The second section describes the most recent evidence and controversial topics in the field of coronary artery bypass grafting. I believe this book will serve the interests of readers.

This book is useful for physicians taking care of patients with cardiac arrhythmias and includes six chapters written by experts in their field. Chapter 1 discusses basic mechanisms of cardiac arrhythmias. Chapter 2 discusses the chronobiological aspects of the impact of apnoic episodes on ventricular arrhythmias. Chapter 3 discusses navigation, detection, and tracking during cardiac ablation interventions. Chapter 4 discusses epidemiology and pathophysiology of ventricular arrhythmias in several noncardiac diseases, methods used to assess arrhythmia risk, and their association with long-term outcomes. Chapter 5 discusses the treatment of ventricular arrhythmias

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including indications for implantation of an AICD for primary and for secondary prevention in patients with and without congestive heart failure. Chapter 6 discusses surgical management of atrial fibrillation.

This book provides updated knowledge about the biological characteristics and clinical use of arterial grafts for coronary artery bypass surgery. The book is written by world-renowned cardiac surgeons and cardiovascular research scientists working in this area. This work offers first-hand information for arterial grafts with regard to their biological characteristics, clinical uses, results, and future development.

In patients with coronary artery disease, surgical revascularization with arterial or venous bypass grafts not only relieves symptoms, but also prolongs life. The result of such interventions, however, is frequently impaired by graft dysfunction and occlusion. This monograph highlights the clinical importance of coronary artery bypass graft disease and, in particular, the use of modern diagnostic techniques to assess graft structure and function. The molecular and cellular mechanisms of coronary bypass graft disease are extensively discussed with several chapters devoted to prophylactic medical therapy. The indication, technique and results of reinterventions with balloon angioplasty, reoperation or transplantation in patients with graft failure are also reviewed.

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

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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

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Coronary surgery encompasses two thirds of all adult cardiac surgery cases. With the endless pursuit of better outcomes, modern coronary artery bypass grafting (CABG) has become technically more complex in ways that are well beyond the training of the average cardiac surgeon. The old concept of "one-technique-fits-all" has been abandoned in favour of a specialized approach tailored to the individual patient. In fact, in recent years, there is a growing movement towards establishing coronary surgery as a super-specialization of cardiac surgery. *Technical Aspects of Modern Coronary Artery Bypass Surgery* aims to expand on both the basics and complexities of the technical aspects of coronary surgery. It serves as an up to date resource that illustrates and details the advancement and techniques in this field which may soon become a separate super-specialty. With a particular emphasis on illustrations, the book will be an essential reference book for both established surgeons that have no experience in advanced CABG, and the new generation of CABG surgeons. A complete and concise resource on all aspects of coronary surgery In-depth illustrative review of various coronary techniques Covers both current recommendations and well-established practices in the field

The *Encyclopedia of Heart Diseases* is an accurate and reliable source of in-depth information on the diseases that kill more than 12 million individuals worldwide each year. In fact, cardiovascular diseases are more prevalent than the combined incidence of all forms of cancer, diabetes, asthma and leukemia. In one volume, this *Encyclopedia*

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thoroughly covers these ailments and also includes in-depth analysis of less common and rare heart conditions to round out the volume's scope. Researchers, clinicians, and students alike will all find this resource an invaluable tool for quick reference before approaching the primary literature. * Coverage of more than 200 topics, including: applied pharmacology of current and experimental cardiac drugs, gene therapy, MRI, electron-beam CT, PET scan put in perspective, cardiac tests costs and justification, and new frontiers in cardiovascular research * More than 150 helpful figures and illustrations! * Dr. Khan is a well-published and respected expert in heart and heart diseases

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