[PDF] Arterial Grafting For Myocardial Revascularization Indications Surgical Techniques And Results

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**Arterial Grafting for Myocardial Revascularization**

Ludwig K. von Segesser
2012-12-06 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 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.

**Technical Aspects of Modern Coronary Artery Bypass Surgery**

Mario Gaudino
2020-11-08 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 Current Perspectives on Coronary Artery Bypass Grafting**

Takashi Murashita 2020-07-29
This book, The Current Perspectives on Coronary Artery Bypass Grafting, is an excellent update for healthcare 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.
Coronary Artery Bypass Graft Surgery
Wilbert S. Aronow 2017-12-20 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.

Arterial Grafting for Myocardial Revascularization-Ludwig K. von Segesser 1990-10-27 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 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.

Conduits for Myocardial Revascularization-Michel Carrier 1993

Coronary Graft Failure-Ion C. Țintoiu 2016-03-24 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.

Arterial Grafts for Coronary Bypass Surgery-Guo-Wei He 1999 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.

Arterial Grafting for Coronary Artery Bypass Surgery-Guo-Wei He 2006-08-25 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.

Redo Cardiac Surgery in Adults-V.R. Machiraju 2011-12-02 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 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 - David P. Taggart 2021 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.

Advances in Myocardial Revascularization Research and Treatment: 2011 Edition - 2012-01-09 Advances in Myocardial Revascularization Research and Treatment: 2011 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Myocardial Revascularization in a compact format. The editors have built Advances in Myocardial Revascularization Research and Treatment: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Myocardial Revascularization 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 Advances in Myocardial Revascularization Research and Treatment: 2011 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, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Beating Heart Coronary Artery Surgery - Tomas A. Salerno 2001-05-18 Originally introduced several decades ago, myocardial revascularization on the beating heart was largely abandoned as new techniques for extracorporeal circulation were developed. While the popularity of coronary surgery on the arrested heart remained undisputed for decades, a belief in the benefits of avoiding cardiopulmonary bypass and electromechanical arrest had sustained interest in techniques for surgery on the beating heart. Combined with the refinement of techniques of coronary exposure and myocardial stabilization, coronary surgery on the beating heart had slowly regained popularity in the 1990s. The result of an important collaboration from several international authorities in the field, Beating Heart Coronary Artery Surgery summarizes the most important and innovative developments in surgical myocardial revascularization that have evolved in recent years. The book is divided into three parts: technical aspects ("how to"); surgical approaches; and outcomes in off-pump coronary surgery. The reader will be exposed to a comprehensive review of the principles of coronary exposure, preferred surgical approaches, coronary stabilization, management
Coronary Artery Surgery-F. Unger 2012-12-06
The joint workshop between the European Society of Cardiology and the European Society of Cardiovascular Surgery, held October 14-15, 1983 in Innsbruck, Austria, was a unique event. The idea originated in Atlanta, 1982, with C. Hahn and was supported by V. Björk and N. Browse. H. Denolin and F. Loogen brought added impact from the European Society of Cardiology. The joint workshop specifically emphasized new trends and controversies in coronary artery surgery. The contributions appearing in this edition were selected by a scientific committee: H. Denolin, H. Kraft-Kinz, F. Unger, F. Loop, L. Cohn, F. Loogen, P. Lichtlen, T. Killip, and F. Kaindl. The specific aim was to evaluate controversial review points in coronary artery surgery. These were covered in six discussions and in nine forums with slide presentations. The topics were: 1. Indications for coronary artery surgery 2. Graft patency and long-term results 3. New operative techniques 4. Myocardial preservation and anesthetic management 5. Combined procedures 6. Long-term follow-up Coronary artery surgery is a model for comprehensive cardiology, whereby surgery serves as a link between diagnosis and rehabilitation. Because coronary artery surgery has become a routine procedure with standardized techniques, the demand is increasing dramatically as reflected by enormous waiting lists. Hospital mortality can be kept under 1%, so that the value of this operation can also be discussed with regard to its social and economic aspects. In the majority of cases, patients improve and finally return to work, finding life most enjoyable again.

Comparative Effectiveness of Percutaneous Coronary Interventions and Coronary Artery Bypass Grafting for Coronary Artery Disease-U. S. Department of Health and Human Services 2013-06-07 Atherosclerosis develops in a patchy, discontinuous fashion within coronary arteries. Therefore, it is possible to treat the discrete areas of obstruction that most impede coronary blood flow to the myocardium. The mechanical approaches to coronary revascularization fall broadly into two categories: coronary artery bypass grafting surgery (CABG) and catheter-based percutaneous coronary interventions (PCI). Together, these coronary revascularization methods are among the most common major medical procedures performed in North America and Europe. Coronary bypass surgery and coronary angioplasty (with or without stents) are alternative approaches to mechanical coronary revascularization, so their comparative effectiveness in terms of patient outcomes has been of great interest. The comparative effectiveness of bypass surgery and angioplasty is an open question primarily for those patients for whom either procedure would be technically feasible and whose coronary disease is neither too limited nor too extensive. CABG is generally preferred for patients with left main coronary artery disease or severe triple-vessel disease with reduced left ventricular function because it has been previously shown in randomized trials to improve survival compared with medical therapy. In contrast, PCI is generally preferred for patients with most forms of single-vessel disease when symptoms warrant coronary revascularization, in light of its lower procedural risk and the evidence that PCI reduces angina and myocardial ischemia in this subset of patients. The choice between PCI and CABG is most relevant for patients whose coronary artery disease (CAD) lies in between these extremes, namely patients with single-vessel disease of the proximal left anterior descending artery (LAD), most forms of double-vessel CAD, and less extensive forms of triple-vessel CAD. Most randomized controlled clinical trials (RCTs) of angioplasty and surgery have been conducted in this middle segment of the patient population with CAD. The purpose of this report is to evaluate the evidence for the comparative effectiveness of PCI and CABG in this population of patients with CAD. Specifically, the report addresses the following key questions: KQ 1a. In patients with ischemic heart disease and angiographically proven single or multi-vessel disease, what is the effectiveness of PCI compared with CABG in reducing the occurrence of adverse objective outcomes and improving subjective outcomes? KQ 1b. Over what period of time are the comparative benefits of PCI and CABG sustained? KQ 2. Is there evidence that the comparative effectiveness of PCI and CABG varies based on: a. Age, sex, race, or other demographic risk factors? b. Coronary disease risk factors, diabetes, or other comorbid disease? c. Angiographic-specific factors including, but not limited to, the number of diseased vessels amenable to bypass or stenting, vessel territory.
of stenoses (e.g., left main or anterior descending coronary arteries, right coronary artery, circumflex coronary artery), diffuse vs. focal stenoses, left ventricular function, or prior revascularization procedures? d. CABG-specific factors including, but not limited to, cardiopulmonary bypass mode (normothermic vs. hypothermic), type of cardioplegia used (blood vs. crystalloid), or use of saphenous vein grafts, single or bilateral internal mammary artery grafts, or other types of bypass grafts? e. Clinical presentation (e.g., stable angina or unstable angina based on New York Heart Association functional class I-IV, acute coronary syndrome, cardiogenic shock, acute myocardial infarction with or without ST elevation, or silent ischemia)? f. Adjunctive medical therapies, such as short-term intravenous or oral antiplatelet drugs, or long-term use of oral antiplatelet drugs? g. Process characteristics such as provider volume, hospital volume, and setting (e.g., academic vs. community)? h. Prior PCI or CABG revascularization procedures?

Atlas of Cardiac Surgical Techniques E-Book - Frank Sellke 2018-01-31 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.

Revascularization - David P Taggart 2021-02-04 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 interested in surgical coronary revascularization.

The Practice of Coronary Artery Bypass Surgery - D. Miller 2012-12-06 Few advances in cardiovascular medicine have so captured the interest of physicians and the public alike as has coronary artery bypass surgery. Cardiologists who lived through the era of false hopes and frustrations of previous “operations” for coronary artery disease can fully appreciate what this major advance offers to their patients. The number of papers on this topic presented at national meetings attest to its popularity, but also make it increasingly difficult for anyone to assimilate all the data. Practitioners who must consider coronary artery bypass surgery for their patients may thus have difficulty in coming to some rational decision regarding the indications for the operation and its consequences. Depending on the “authority” that one reads, there is still some controversy as to which patients are candidates for coronary artery bypass surgery.
surgery. This monograph on the practice of coronary artery bypass surgery, therefore, comes as a welcome boon to cardiologists, surgeons, internists, and general practitioners who must consider referring their patients for such surgery. It presents a balanced and reasonable picture of the overall subject, in addition to containing important information on such topics as operative technique and economic impact. Dr. Miller has done an outstanding job in bringing together in one text the important considerations related to the evaluation of patients, the natural history of coronary artery disease and the benefits and problems associated with bypass surgery.

Coronary Artery Graft Disease - Thomas Luescher 2012-12-06 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.

Coronary Angiography - Baskot Branislav 2011-09-15 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.

Overview of Aortocoronary Bypass Grafting for the Treatment of Coronary Artery Disease - Henry D. Mcintosh 1981

Beating Heart Bypass Surgery and Minimally Invasive Conduit Harvesting - V. Guelielmos 2012-12-06 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.

Coronary Artery Surgery in the Nineties - Felix Unger 2013-11-11 In this book, the latest results in coronary artery surgery are discussed and the factors decisive for long-term prognosis are elucidated. The indications for re-operation are considered and redefined, and the surgical technique with regard to multiple bypass is described. The aim of the book is to depict clearly long-term prognoses and to determinate the future needs of coronary artery surgery in the next decade. This far-sighted approach also makes the book a valuable reference for the planning and extension of cardiology centers in Europe.
Minimally Invasive Cardiac Surgery - Theo Kofidis
2021-02-09
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

Robotic Cardiac Surgery - Changqing Gao
2013-11-23
Robotic Cardiac Surgery is a comprehensive guide to robotic/totally endoscopic cardiac surgery. The book is intended to provide in-depth information regarding the history of robotic surgical systems, their components and principles. It emphasizes patient selection, perioperative management, anesthesia considerations and management, operative techniques and management, postoperative care and results. Extensive, detailed photographs and illustrations of different kinds of robotic surgery are also included. It provides cardiac surgeons, cardiac anesthesiologists, and perfusionists with a comprehensive review of current robotic cardiac surgeries and related knowledge. Changqing Gao, MD, is a professor at the Department of Cardiovascular Surgery, PLA General Hospital, Beijing, China.

Artery Bypass - Wilbert S. Aronow
2013-03-13
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.

Encyclopedia of Heart Diseases - M. Gabriel Khan
2005-12-14
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 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

Practical Textbook of Cardiac CT and MRI - Tae-Hwan Lim
2015-02-09
This up-to-date textbook comprehensively reviews all aspects of cardiac CT and MRI and demonstrates the value of these techniques in clinical practice. A wide range of applications are considered, including imaging of atherosclerotic and non-
atherosclerotic coronary artery disease, coronary revascularization, ischemic heart disease, non-ischemic cardiomyopathy, valvular heart disease, cardiac tumors, and pericardial disease. The numerous high-quality images illustrate how to interpret cardiac CT and MRI correctly for the purposes of diagnosis, treatment planning, and follow-up. Helpful summarizing sections in every chapter will facilitate rapid retrieval of information. This book will be of great value to radiologists and cardiologists seeking a reliable guide to the optimal use of cardiac CT and MRI in real clinical situations. An additional feature is the provision of QR codes allowing internet access to references, further figures, and motion pictures. The reader will be able to enjoy this book using a smartphone or tablet PC.

Cardiothoracic Surgery-Joanna Chikwe 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 cardiothoracic surgical practice.

Comparative Effectiveness of Percutaneous Coronary Interventions and Coronary Artery Bypass Grafting for Coronary Artery Disease-2007 Atherosclerosis develops in a patchy, discontinuous fashion within coronary arteries. Therefore, it is possible to treat the discrete areas of obstruction that most impede coronary blood flow to the myocardium. The mechanical approaches to coronary revascularization fall broadly into two categories: coronary artery bypass grafting surgery (CABG) and catheter-based percutaneous coronary interventions (PCI). Together, these coronary revascularization methods are among the most common major medical procedures performed in North America and Europe. Coronary bypass surgery and coronary angioplasty (with or without stents) are alternative approaches to mechanical coronary revascularization, so their comparative effectiveness in terms of patient outcomes has been of great interest. The comparative effectiveness of bypass surgery and angioplasty is an open question primarily for those patients for whom either procedure would be technically feasible and whose coronary disease is neither too limited nor too extensive. CABG is generally preferred for patients with left main coronary artery disease or severe triple-vessel disease with reduced left ventricular function because it has been previously shown in randomized trials to improve survival compared with medical therapy. In contrast, PCI is generally preferred for patients with most forms of single-vessel disease when symptoms warrant coronary revascularization, in light of its lower procedural risk and the evidence that PCI reduces angina and myocardial ischemia in this subset of patients. The choice between PCI and CABG is most relevant for patients whose coronary artery disease (CAD) lies in between these extremes, namely patients with single-vessel disease of the proximal left anterior descending artery (LAD), most forms of double-vessel CAD, and less extensive forms of triple-vessel CAD. Most randomized controlled clinical trials (RCTs) of angioplasty and surgery have been conducted in this middle segment of the patient population with CAD. The purpose of this report is to evaluate the evidence for the comparative effectiveness of PCI and CABG in this population of patients with CAD.

Operative Techniques in Coronary Artery Bypass Surgery-Alexander Albert 2020-12-11 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 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.

**Cardiothoracic Critical Care E-Book**-David Sidebotham 2007-09-12 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 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 full range of cardiothoracic surgery patients with in-depth coverage of perioperative care, management of complications, and more.

**Sabiston & Spencer Surgery of the Chest**-2005 A comprehensive, up-to-date collection of all essential clinical knowledge in cardiac and thoracic surgery. The contents have been reorganized into three major sections-Adult Cardiac Surgery, Pediatric Cardiac Surgery, and Thoracic Surgery. More than 50 new chapters have been added to reflect important changes within this rapidly evolving field, including both surgical and medical therapeutic approaches. More than 1,500 illustrations, nearly all of them new to this edition, help to clarify key concepts. It features a new organization into three major sections-Adult Cardiac Surgery, Pediatric Cardiac Surgery, and Thoracic Surgery-that makes information; covers hot new topics in thoracic surgery including minimal invasive treatment of lung cancer, multimodal therapy for esophageal cancer, innovative therapies and technology in thoracic surgery, and endoscopic treatment of thoracic disease; explores new developments in adult cardiac surgery, such as catheter-based treatment of c.

**Primary Angioplasty**-Timothy J Watson 2018-07-13 This book is open access under a CC BY 4.0 license. This quick-reference handbook offers a concise and practical review of key aspects of the treatment of ST-segment elevation myocardial infarction (STEMI) in the era of primary percutaneous coronary intervention (PPCI). In the context of STEMI, PPCI is the preferred mode of emergency revascularization. Access to PPCI is rapidly increasing and is now routinely practiced in both general and specialist hospitals and there has been a recent emphasis on developing STEMI networks to enhance and expedite the referral pathway. This coupled with concurrent developments to enhance the safety and efficacy of the PPCI procedure has heralded an era where STEMI interventions are increasingly considered an important subspecialty within interventional cardiology. Written by leading cardiologists who have been instrumental in the adoption of PPCI in their respective institutions, the book provides junior and senior cardiologists alike with insightful and thought-provoking tips and tricks to enhance the success of PPCI procedures, which may in turn translate into direct improvements in outcomes. The book is also relevant for healthcare providers and emergency department physicians.

**Coronary Artery Bypass Grafting Design Simulations**-Foad Kabinejadian 2012 Coronary Artery Bypass Grafting (CABG) is performed to relieve angina and reduce the risk of death from coronary artery disease by improving coronary perfusion and myocardium supply. However, CABG has a limited long-term patency, mainly due to anastomotic intimal hyperplasia. It is well proven that hemodynamic factors are implicated in the initiation and progression of intimal
hyperplasia. In order to further improve the hemodynamics at the downstream anastomosis and alleviate the drawbacks of the available CABG anastomosis designs so as to attain higher patency rates in bypass grafts, a novel coupled side-to-side and end-to-side sequential anastomoses configuration design is developed in this work. Extensive computational simulations and in vitro measurements (utilizing Particle Image Velocimetry) have verified beneficial hemodynamic and advantageous flow characteristics of this novel CABG configuration. This book can serve as a valuable resource guide for coronary bypass surgical procedures and a biomedical engineering course on myocardial revascularization, to cardiac surgeons and biomedical engineers.

**Myocardial Viability** - Vasken Dilsizian
2000-02-10 Despite remarkable advances in the understanding and management of impaired left ventricular function (LVF) and related coronary disease, the prevalence of heart failure in the U.S. and the resulting death rates have almost tripled in the past 3 decades. New understanding of the relationships between the myocardium and LVF demonstrate a direct correlation between myocardial viability and improved patient survival. Because of this, myocardial viability is now a major investigative area in contemporary cardiology, one that holds significant clinical and prognostic relevance. Authored by physicians of international renown, the book brings together various disciplines affecting myocardial viability, with five main sections providing an introduction and comprehensive review of: basic concepts and mechanisms; vascular biology and cellular physiology; advances in functional imaging; and perfusion, metabolism and cell membrane integrity. New concepts, such as stunning and hibernation, are clarified, and subsequent novel diagnostic and therapeutic strategies are described. New and sophisticated examination techniques are also presented, as well as advances in instrumentation and imaging techniques, which may result in improved use of resources and enhanced efficiency of health care delivery. This monograph will serve as a reference source for those interested in the field of myocardial viability, and hopefully improve understanding between investigators from various disciplines. Clinical cardiologists, physicians, and nurses in the field, as well as radiologists, vascular surgeons, reperfusionists, cellular biologists and physiologists, and students will all find material of interest in this book.

**Overview of Aortocoronary Bypass Grafting for the Treatment of Coronary Artery Disease** - Henry D. McIntosh 1981

**Minimally Invasive Cardiac Surgery** - Mehmet C. Oz 2013-03-14 A comprehensive review by renowned authorities of the many exciting developments occurring across the rapidly emerging field of "minimally invasive" or "minimal access" cardiac surgery. The book's distinguished panel of contributors presents the interventional cardiologists perspective, spells out the key factors for success in beating-heart coronary bypass grafting through limited incisions, and surveys the various methods of harvesting the internal thoracic artery. Other topics treated include immobilization of the surgical field, minimal access valve and congenital surgery, alternative methods of anastomosis, and port-access coronary bypass grafting. Minimally Invasive Cardiac Surgery summarizes all the latest findings on the powerful new techniques, as well as the results, of minimally invasive coronary surgery, including valvular heart disease, congenital heart disease, and coronary revascularization.

**Myocardial Laser Revascularization** - Charles Bridges 2008-04-15 Finally, there is a dependable guide to transmyocardial laser revascularization (TMR). In this groundbreaking volume, clinicians who pioneered the use of this innovative treatment share their insights on the indications, results, mechanisms, and limitations of the technique. Under the careful editorial guidance of Drs. Bridges, Horvath, and Chiu, contributing authors explain: the evolution, science, rationale, and limitations for TMR how to select suitable candidates anesthetic considerations and the role of transesophageal echo TMR as a sole or combination therapy. Whether you are already practicing TMR or contemplating its addition to your therapeutic armamentarium, this concise reference will answer all your questions about this important new procedure.