Edited by Lionel H. Opie



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Frank W. Sellke, Pedro J. del Nido, Scott J. Swanson

Stunning, Hibernation, and Calcium in Myocardial Ischemia and Reperfusion Lionel H. Opie, 2012-12-06 Stunning is potentially an important complication of myocardial reperfusion In contrast hibernation is an important complication of myocardial ischemia This book presents different viewpoints on these subjects taken from a series of peer reviewed articles which first appeared in Cardiovascular Drugs and Therapy and now in this book In addition a certain number of articles were directly invited for the book The introductory article is by Eugene Braunwald who with Kloner introduced the term myocardial stunning in 1982 The experimental phenomenon had first been described by Heyndrickx et al This important concept of stunning is examined from a number of points of view in a series of articles which clarify the experimental causes and the clinical implications The section on hibernation is introduced by Tubau and Rahimtoola the latter having first propounded the concept in 1989 The difference between stunning and hibernation is that stunning is essentially a post ischemic dysfunction of the myocardium temporary in nature occurring at a time when coronary blood flow is apparently normal or supranormal Hibernation on the other hand is a condition of reduced contractile activity the direct result of chronic ischemia and hence a sign of a tolerable reduction in blood flow Possibly the reduction in contractile activity of the hibernating heart balances the reduction in the oxygen availability the smart heart of Rahimtoola This non contractile heart is hibernating awaiting the return of summer after winter and willing to contract normally again whenever warm coronary blood is restored It is certain that the concepts of stunning and hibernation are here to stay that they have or will have clinical relevance and that the search for the most appropriate diagnosis and therapy for each condition is now under way Hence a greater understanding of the experimental work which underlies these two conditions is highly appropriate

Stunning, Hibernation, and Calcium in Myocardial Ischemia and Reperfusion Lionel H Opie,1992-09-30 Myocardial Ischemia and Reperfusion Michael V. Cohen,J.M. Downey,R.J. Gelpi,Jan Slezak,2012-12-06 The articles collected in this volume largely arose from two related meetings held last spring The first was held in Buenos Aires Argentina on April 11 12 1997 and was titled Nuevos Avances en el Fen meno de Isquemia y Reperfusi n New Advances in the Phenomenon of Ischemia and Reperfusion The second meeting took place in Star Lesn located in the High Tatras Mountains of the Slovak Republic on June 27 30 1997 Both meetings were sponsored by several organizations including the International Society and Federation of Cardiology the International Society for Heart Research and The American Heart Association Myocardial Ischemia Dennis V. P. Cokkinos,C. Pantos,Gerd Heusch,H. Taegtmeyer,2006-03-08 Effective new treatments of heart disease are based on a refined understanding of cellular function and the heart s response to environmental stresses Not surprisingly therefore the field of experimental cardiology has experienced a phase of rapid expo nential growth during the last decade The acquisition of new knowledge has been so fast that textbooks of cardiology or textbooks of cardiovascular physiology are often hard pressed to keep up with the most important conceptual advances Witness the explosive increase in

knowledge about signaling pathways of cardiac growth transcripttional regulation of cardiac metabolism hormonal signaling and the complex responses of the heart to ischemia reperfusion or ischemic preconditioning This book is meant to bridge the gap between original literature and textbook reviews It brings together investigators of various backgrounds who share their expertise in the biology of myocardial ischemia Each chapter is a self contained mini review but it will soon become apparent to the reader that there is also a common thread Molecular and cellular cardiology has never been more exciting than now but ever more exciting times are yet to come The Editors ACKNOWLEDGEMENTS Publication of this book was generously supported by Sanofi Aventis Hellas Eikon creative team provided the technical assistance in preparing the manuscripts We thank Dr Bernard Swynghedauw for all his scientific support Myocardial Viability A.E. Iskandrian, Ernst E. van der Wall, 2012-12-06 AMI E ISKANDRIAN we appreciate their commitments and contributions Almost all chapters have been radically modified Chapter 1 deals with pathophysiology of myocardial hibernation and stunning Chapter 2 with apoptosis Chapter 3 with the role of positron emission tomography Chapters 4 and 5 with the role of single photon emission computed tomography with thallium 201 and technetium agents respectively Chapter 6 with the role of SPECT fatty acid imaging Chapter 7 with the role of SPECT FDG imaging Chapter 8 with the role of cardiac catheterization angiography Chapter 9 with the role of echocardiography Chapter 10 with the role of magnetic resonance imaging and Chapter 11 with clinical applications Finally Chapter 12 provides a short summary Kirklin/Barratt-Boyes Cardiac Surgery E-Book James K. Kirklin, Eugene H. Blackstone, 2012-10-26 Now in its 4th edition Kirklin Barratt Boyes Cardiac Surgery remains your indispensable source for definitive state of the art answers on every aspect of adult and pediatric cardiac surgery This dynamic medical reference thoroughly and systematically covers the full range of new and classic surgical procedures including the latest alternate and minimally invasive surgical techniques and presents the up to date clinical evidence you need to make effective management decisions Be certain with expert dependable accurate answers for every stage of your career from the most comprehensive definitive text in the field Get comprehensive coverage of all areas of cardiac surgery including ischemic valvular and congenital heart disease cardiac tumors constrictive pericarditis thoracic aortic surgery cardiac transplantation coronary artery disease aortic valve disease cardiac rhythm disturbances heart failure and transplantation disease of the thoracic aorta tetralogy of Fallot anesthesia and postoperative care Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Make the most well informed decisions and achieve optimal outcomes by exploring each condition s natural history diagnostic criteria indications for surgery operative techniques and follow up care Reference information quickly thanks to a new streamlined format Visually grasp and better understand critical information with the aid of a new full color design that includes an abundance

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Sabiston and Spencer Surgery of the Chest, E-Book Frank W. Sellke, Pedro J. del Nido, Scott J. Swanson, 2023-09-27 Selected for Doody's Core Titles 2024 in Thoracic Surgery The only text to cover the full range of adult cardiac thoracic and pediatric chest surgery Sabiston and Spencer Surgery of the Chest 10th edition provides unparalleled guidance in a single two volume resource This gold standard reference edited by Drs Frank Sellke Pedro del Nido and Scott Swanson covers today s most important knowledge and techniques in cardiac and thoracic surgery the information you need for specialty board review and for day to day surgical practice Meticulously organized so that you can quickly find expert information on open and endoscopic surgical techniques this 10th Edition is an essential resource not only for all cardiothoracic surgeons but also for physicians residents and students concerned with diseases of the chest Features short focused chapters divided into three major sections Adult Cardiac Surgery Pediatric Cardiac Surgery and Thoracic Surgery Presents the knowledge and expertise of global experts who provide a comprehensive view of the entire specialty Provides full color coverage throughout helping you visualize challenging surgical techniques and procedures and navigate the text efficiently Includes new chapters on dissection complications and percutaneous treatment of mitral and tricuspid valve disease Offers extensively revised or rewritten chapters on surgical revascularization acute dissection vascular physiology the latest innovations in minimally invasive cardiothoracic surgery and percutaneous devices the molecular biology of thoracic malignancy robotics in chest surgery congenital valve reconstructions novel hybrid procedures in pediatric cardiac surgery and 3D visualization of cardiac anatomy for surgical procedure planning Keeps you up to date with the latest developments in cardiothoracic imaging and diagnosis Provides access to more than 30 surgical videos online and features new figures tables and illustrations throughout

Sabiston and Spencer's Surgery of the Chest E-Book Frank Sellke, Pedro J. del Nido, Scott J. Swanson, 2009-12-16 Through seven successful editions Sabiston Spencer Surgery of the Chest has set the standard in cardiothoracic surgery references Now the new 8th Edition edited by Frank W Sellke MD Pedro J del Nido MD and Scott J Swanson MD carries on this tradition with updated coverage of today s essential clinical knowledge from leaders worldwide Guidance divided into three major sections Adult Cardiac Surgery Congenital Heart Surgery and Thoracic Surgery lets you quickly find what you need while new and revised chapters reflect all of the important changes within this rapidly evolving specialty Expert Consult functionality new to this edition enables you to access the complete contents of the 2 volume set from anyplace with an Internet connection for convenient consultation where and when you need it This is an ideal source for mastering all of the

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Kirklin/Barratt-Boyes Cardiac Surgery James K. Kirklin, Eugene H. Blackstone, 2012-10-26 Now in its 4th edition Kirklin Barratt Boyes Cardiac Surgery remains your indispensable source for definitive state of the art answers on every aspect of adult and pediatric cardiac surgery This dynamic medical reference thoroughly and systematically covers the full range of new and classic surgical procedures including the latest alternate and minimally invasive surgical techniques and presents the up to date clinical evidence you need to make effective management decisions Be certain with expert dependable accurate answers for every stage of your career from the most comprehensive definitive text in the field Get comprehensive coverage of all areas of cardiac surgery including ischemic valvular and congenital heart disease cardiac tumors constrictive pericarditis thoracic aortic surgery cardiac transplantation coronary artery disease aortic valve disease cardiac rhythm disturbances heart failure and transplantation disease of the thoracic aorta tetralogy of Fallot anesthesia and postoperative care Stay current with the latest advancements and practices Comprehensive updates throughout include new information on endovascular management of thoracic aorta disease new data on clinical outcomes the most recent minimally invasive procedures non invasive CT angiography new alternative surgical approaches to mitral valve surgery and many other hot topics Make the most well informed decisions and achieve optimal outcomes by exploring each condition s natural history

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illuminates the epidemiology risk factors and underlying genetic predispositions while exploring the interconnected role of lifestyle factors comorbidities and the structural intricacies of the heart and coronary arteries Coronary Graft Failure Ion C. Tintoiu, Malcolm John Underwood, Stephane Pierre Cook, Hironori Kitabata, Aamer Abbas, 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 Rutherford's Vascular Surgery and Endovascular Therapy, 2-Volume Set, E-Book Anton N. Sidawy, Bruce A. Perler, 2022-06-04 Encyclopedic definitive and state of the art in the field of vascular disease and its medical surgical and interventional management Rutherford's Vascular Surgery and Endovascular Therapy offers authoritative guidance from the most respected and innovative global thought leaders and clinical and basic science experts of our time The thoroughly revised 10th Edition published in association with the Society for Vascular Surgery and authored by multidisciplinary and international contributors is an outstanding reference for vascular surgeons vascular medicine specialists interventional radiologists and cardiologists and their trainees who depend upon Rutherford's in their practice Under the expert editorial guidance of Drs Anton N Sidawy and Bruce A Perler it is guite simply the most complete and most reliable resource available on the art and science of circulatory diseases Incorporates fundamental vascular biology diagnostic techniques and decision making as well as medical endovascular and surgical treatment of vascular disease Features numerous concise and comprehensive diagnostic and therapeutic algorithms vital to patient evaluation and management Covers all vascular imaging techniques offering a non invasive evaluation of both the morphology and hemodynamics of the vascular system Employs a full color layout images and online videos so readers can view clinical and physical findings and operative techniques more vividly Contains fully updated and more concise chapters with a focused format and summary for each that provides a quick access to key information ideal for consultation as well as daily practice Includes expanded coverage of the business of vascular surgery including a new section on the use of technology platforms and social media and new chapters on telemedicine the development and operation of outpatient dialysis centers and multispecialty cardiovascular centers vascular information on the internet and much more Provides new

Congestive Heart Failure ,1997 Handbook of Cardiac Anatomy, Physiology, and Devices Paul A. Iaizzo,2010-03-11 A revolution began in my professional career and education in 1997 In that year I visited the University of Minnesota to discuss collaborative opportunities in cardiac anatomy physiology and medical device testing The meeting was with a faculty member of the Department of Anesthesiology Professor Paul Iaizzo I didn t know what to expect but as always I remained open minded and optimistic Little did I know that my life would never be the same During the mid to late 1990s Paul Iaizzo and his team were performing anesthesia research on isolated guinea pig hearts We found the work appealing but it was unclear how this research might apply to our interest in tools to aid in the design of implantable devices for the cardiovascular system As discussions progressed we noted that we would be far more interested in reanimation of large mammalian hearts in particular human hearts Paul was confident this could be accomplished on large hearts but thought that it would be unlikely that we would ever have access to human hearts for this application We shook hands and the collaboration was born in 1997 In the same year Paul and the research team at the University of Minnesota including Bill Gallagher and Charles Soule reanimated several swine hearts Unlike the previous work on guinea pig hearts which were reanimated in Langendorff mode the intention of this research was to produce a fully functional working heart model for device testing and cardiac research

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Stunning Hibernation And Calcium In Myocardial Ischemia And Reperfusion Introduction

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