

PERICARDIAL DISEASE

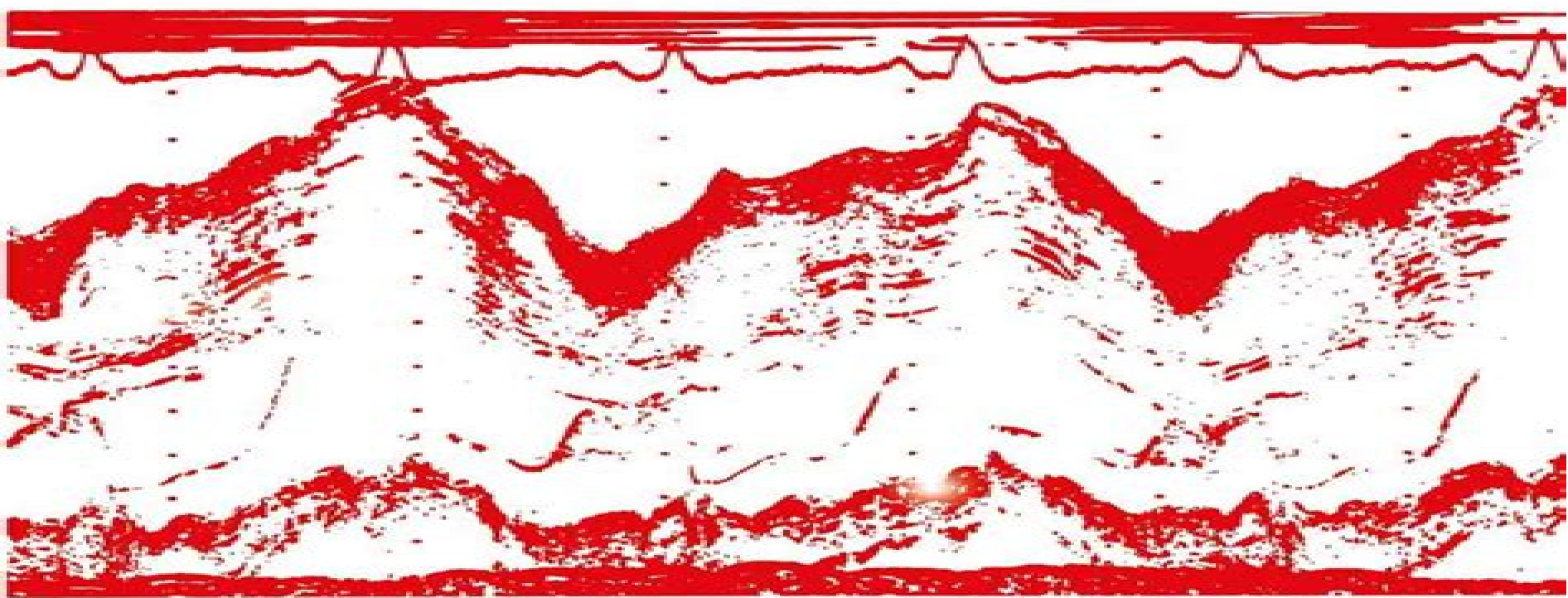
New Insights and Old Dilemmas

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Pericardial Disease New Insights And Old Dilemmas

C.A. Nienaber, R. Fattori



Pericardial Disease New Insights And Old Dilemmas:

Pericardial Disease J. Soler-Soler, G. Permanyer, J. Sagrista-Sauleda, 1990-03-31 *Pericardial Disease* J. Soler-Soler, G. Permanyer, J. Sagrista-Sauleda, 2012-12-06 In November 1986 I was invited to attend a symposium held in Barcelona on Diseases of the Pericardium The course was directed by Dr J Soler Soler director of Cardiology at Hospital General Vall d Hebron in Barcelona During my brief but delightful visit to this institution my appreciation of the depth and breadth of study into pericardial diseases carried out by Dr Soler and his group grew into the conviction that these clinical investigators have accumulated a wealth of information concerning pericardial diseases and that investigators and clinicians practicing in English speaking countries would greatly profit from ready access to the results of the clinical investigations into pericardial disease carried out in Barcelona The proceedings of the Barcelona conference were published in a beautifully executed volume in the Spanish language edited by Dr Soler and produced by Ediciones Doyma Because I believe that this work should be brought to the attention of the English speaking scientific and clinical communities I encouraged Dr Soler to have the book translated into English I knew that this task could be accomplished and that the book would be translated into good English without change of its content My confidence was based upon a translation of my own book The Pericardium into Spanish undertaken by Dr Permanyer who is a contributor and co editor of the present volume Stress Doppler Echocardiography Steve M. Teague, 2012-12-06 For almost 40 years a small but intense group of cardiovascular investigators have evaluated cardiac performance by measuring the mass velocity and acceleration of blood ejected from the left ventricle These studies reveal that energy is transferred from ventricle to blood very early in systole and that the left ventricle is characterized as an impulse generator Recent explosive developments in Doppler echocardiography have allowed study of the energetics of ventricular contraction through noninvasive acceleration velocity and volumetric flow measurements Compared against reference standards of ejection fraction dP/dt and instantaneous pressure gradient across the aortic valve Doppler acceleration and velocity measurements are highly sensitive to changes in ventricular performance Most patients seeking cardiovascular care present with coronary artery disease as a chief concern This book focuses upon identification of coronary disease presence and severity through the evaluation of left ventricular Doppler ejection responses to stress loading Chapters I through 4 detail basic research on the dynamics of left ventricular ejection in ischemic and nonischemic animal models Chapters 5 through 13 present clinical correlates of changes in the Doppler systolic ejection pulse during exercise and under pharmacologic stress loading Angiographic anatomy thallium perfusion defects and radionuclear ejection fraction responses serve as reference standards Chapters 14 15 and 16 address applications of Doppler echocardiography during the stresses of brief coronary occlusion myocardial infarction and post infarction recovery while chapters 17 and 20 illustrate applications of stress Doppler techniques in valvular heart disease Practical Echocardiography in the Adult J.P.M Hamer, 2012-12-06 Since the introduction of ultrasound in cardiology in the mid fifties echocardiography has continued to

grow and has finally become in particular after the introduction of Doppler modalities the working horse of the cardiologist. Although many books have been written on this subject Dr Hamer's book is a very valuable contribution as it provides in particular information for practicing clinicians and technicians. Clearly written and nicely illustrated this book is a must for those interested in this field.

C. A. Visser, Professor of Echocardiology, Preface. Trans thoracic echocardiography is a patient friendly technique without pain or discomfort. It is harmless and the patient can relax during the examination. With these advantages in mind there is hardly any technique in cardiology that can provide so much valuable information about the function of the heart. If Doppler and color Doppler also painless techniques are added to echo cardiography additional information about blood flow velocities, insufficiency and stenosis of valves, detection of shunts etc. is obtainable. Less patient friendly but if selectively used very informative is trans esophageal color Doppler echocardiography.

Pathophysiology of Severe Ischemic Myocardial Injury H.M. Piper, 2012-12-06. In industrialized countries ischemic heart disease is by far the most common organ specific cause of death. The thrombotic occlusion of a coronary artery which had previously been severely altered by atherosclerosis is the most frequent cause of ischemic deterioration of myocardial tissue i.e. myocardial infarction. Death of the human individual occurs when myocardial ischemia causes a critical impairment of cardiac pump function. The failure of a heart with an ischemic area may be due to the amount and location of contractile tissue becoming paralyzed or even necrotic or to arrhythmias provoked by the ischemic condition or by a combination of both factors. Considerable progress has been made in the development of antiarrhythmic therapy. Effective tools have been developed to reperfuse ischemic myocardial tissue as soon as the patient reaches hospital. However, therapeutic principles for the ischemic reperfused myocardium which would specifically interfere with the state of injury of the ischemic tissue at the onset of reperfusion and avoid the apparent hazards of the reperfusion process itself have yet to be established. But not only approved therapeutic concepts are lacking, the pathophysiology of myocardial cell injury in progressive ischemia and under reperfusion is in itself only partly understood.

What's New in Cardiac Imaging? Ernst E. van der Wall, H. Sochor, A. Righetti, M.G. Niemeyer, 2012-12-06. Since the introduction of myocardial perfusion imaging and radionuclide angiography in the mid seventies cardiovascular nuclear medicine has undergone an explosive growth. The use of nuclear cardiology techniques has become one of the cornerstones of the noninvasive assessment of coronary artery disease. In the past 15 years major steps have been made from visual analysis to quantitative analysis from planar imaging to tomographic imaging from detection of disease to prognosis and from separate evaluations of perfusion, metabolism and function to an integrated assessment of myocardial viability. In recent years many more advances have been made in cardiovascular nuclear imaging such as the development of new imaging agents, reevaluation of existing procedures and new clinical applications. This book describes the most recent developments in nuclear cardiology and also addresses new contrast agents in MRI.

What's New in Cardiac Imaging will assist the clinical cardiologist, the cardiology fellow, the nuclear medicine physician and the radiologist.

in understanding the most recent achievements in clinical cardiovascular nuclear imaging What's New in Cardiovascular Imaging? Johan H. C. Reiber, Ernst E. van der Wall, 2012-12-06 What's New in Cardiovascular Imaging is a bibliographical image of a Symposium held June 22-24 1998 in Leiden the Netherlands At this Symposium all the major advances in cardiovascular imaging in all the cardiovascular imaging modalities X ray intravascular ultra sound magnetic resonance scintigraphy and CT were addressed by the leading authorities in this field Based on the presentations of the invited Faculty this book consists of a compilation of manuscripts related to most of the topics discussed at this particular meeting We express our gratitude to all authors and coauthors for having made great efforts in preparing their superb up to date chapters under a great time pressure so that this book was available at the time of the Symposium The authors are all excellent investigators in one or more fields of cardiovascular imaging and they have stimulated progress in cardiovascular imaging with the aim to improve patient care and clinical research This book consists of a total of 32 chapters subdivided into seven Parts Each part describes a particular field in cardiovascular imaging These Parts are Coronary quantitation by QCA and intracoronary ultrasound QCU angiographic trials progress in intravascular ultrasound magnetic resonance MR coronary and vascular imaging nuclear cardiovascular imaging echocardiography and cine and spiral CT coronary imaging In general each Part begins with a chapter that provides a broad overview of the advances in the field described in that particular Part as well as a view towards the future

The Noninvasive Evaluation of Hemodynamics in Congenital Heart Disease

J.V. Chapman, G.R. Sutherland, 2012-12-06 The noninvasive evaluation of hemodynamics in congenital heart disease is an application for which Doppler ultrasound is ideally suited The pediatric cardiac sonographer has used 2D and TM imaging for several years to study the structural abnormalities associated with various lesions Pulsed Doppler continuous wave Doppler and more recently color flow mapping techniques have been used to study the pathophysiology and to make quantitative measurements thereof To those already working in pediatric echocardiography this book is intended to serve as a guide to the applications of the various Doppler modalities in specific abnormalities The other group for which this text is intended are the adult cardiac sonographers who see the occasional patient with congenital heart disease in their echocardiography laboratories The incidence of congenital heart disease is not decreasing As more patients survive to child bearing age the adult cardiologist sees more and more referrals from the pediatric cardiologist to follow up the parent with corrected congenital heart disease and in many smaller institutions to examine their offspring as well For this group the book is intended to serve as a reference which gives a basic description of the pathology the relevant parameters to observe and a guide to the Doppler applications used to make these observations While there are a few books available on the subject of echocardiography in congenital heart disease they do not usually go into much detail on noninvasive assessment of the pathophysiology It is our hope that this text fills that gap

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1990

Evidence-Based Cardiology Salim Yusuf, John A. Cairns, A. John Camm, Ernest L. Fallen, Bernard J.

Gersh, 2008-04-15 This second edition is a ground breaking clinical text with a strong emphasis on rigorous evidence. Leaders in the field discuss best practice in the light of systematic reviews and randomised control trials and how best to treat where the information is less clear. Case histories provide intriguing discussions on how to apply the evidence in real life situations. Evidence based Cardiology also includes free access to the latest evidence which is automatically posted on a companion website. PTCA: An Investigational Tool and a Non-Operative Treatment of Acute Ischemia P.W. Serruys, Rüdiger Simon, Kevin J. Beatt, 2012-12-06 Obstruction of coronary blood flow and the resultant consequences are the center stage pathophysiologic events in cardiology today. The speculations of Jenner, Burns, Heberdin, McKenzie, Prinzmetal and many others had until now been left to observations of isolated tissue and intact animal experimentation. Only with the advent of Gruentzig's technique which allowed us to work safely inside the coronary arteries are we able to observe the effects of coronary occlusion in living conscious man. PTCA provides not only a therapeutic modality for non-operatively opening coronary obstructions but has also provided the best model for studying the effects of acute ischemia on the heart. The procedure also led the way to all other interventional cardiology developments including modern thrombolysis in the setting of acute myocardial infarction. In his previous works Serruys has examined how PTCA can serve as a model for studying acute ischemia. In this book he and his co-authors discuss the effects of balloon induced ischemia on the electrocardiographic changes, coronary blood flow dynamics, cardiac muscle metabolism and left ventricular function as well as measures to counter these effects and provide for reperfusion in unstable angina and acute myocardial infarction. Technology has expanded the eyes of the observer of these events. The authors use many techniques including ECG recording from surface endocardium and intracoronary electrodes, angiographic assessment of coronary flow pattern using digital techniques as well as Doppler flow measurements, biochemical assessment of metabolic products stimulated by ischemia and digital angiographic and echo Doppler assessment of left ventricular function. **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965-70. **Cardiovascular Imaging by Ultrasound** Peter Hanrath, R. Uebis, W. Krebs, 2012-12-06 An international meeting of experts on Cardiovascular Imaging by Ultrasound was held in Aachen from 26-27 April 1991. It provided new and interesting insights into what has already been achieved in ultrasound based cardiovascular diagnosis and therapy and what will be introduced in clinical practice in the near future. Since the introduction of ultrasound in clinical practice in 1984 there has been no other physical principle that has added and will continue to add so much to clinical diagnosis and therapy. Echocardiography once established as a non-invasive diagnostic tool is increasingly becoming an invasive technique for cardiovascular imaging. This book contains the edited contributions from 38 scientists and engineers from all over the world who presented the most up to date findings on 2 dimensional echocardiography, different Doppler modalities, contrast and stress echocardiography and the different modalities of transesophageal echocardiography including mono bi and multiplane TEE as well as pulsed and CW Doppler application via

TEE Exciting and promising developments are discussed in the field of intravascular ultrasound tissue characterization ultrasound ablation ultrasound based 3 dimensional reconstruction of the heart and high frequency Doppler analysis

Progress in quantitative coronary arteriography Johan H. C. Reiber,P.W. Serruys,2012-12-06 This is the fifth volume in this series on quantitative coronary arteriography QCA published over the last nine years Research and applications in this exciting field are covered in a total of 26 chapters by world renowned experts This book is subdivided into a total of 6 parts each emphasizing the latest progress in these respective fields In Part One a comprehensive overview is given of the current knowledge and research in endothelial function which is of eminent importance for the further understanding of the pathophysiology of coronary artery disease in patients Fortunately the use of QCA tools is not limited anymore to leading research institutes over the last several years these tools have been installed in many cardiology centers world wide To understand the current possibilities limitations and future expectations of QCA several relevant topics are presented in Part Two First of all the questions about why and how QCA systems should be validated both at the development site and at the application sites and whether data from different vendors and core laboratories can be pooled are discussed As the X ray cardiovascular world steadily moves into the digital imaging era differences and similarities between the conventional cinefilm and the modern digital approaches are presented Currently the widespread use of digital imaging is still hindered by the lack of proper archival and exchange media Requirements and possible solutions for this problem are handled in this section as well

Congestive Heart Failure Jeffrey D. Hosenpud,Barry H. Greenberg,2013-06-29 This book is the first to approach the field of congestive heart failure as a true subspecialty of cardiology and cardiovascular surgery The text discusses the entire field of congestive heart failure the basic pathophysiologic mechanisms the underlying diseases the effects of heart failure on the remainder of circulation the mechanisms and results of pharmacologic therapy the multiple surgical and multidisciplinary approaches to end stage heart disease and the ultimate prognosis of congestive heart failure in all of the areas of heart failure management Thus this text uniquely puts into perspective all of the features of congestive heart failure and its management for the cardiologist cardiovascular surgeon and general internist

Textbook of Cardiovascular Medicine Eric J. Topol,Robert M. Califf,2007 The Topol Solution gives you a complete print and multimedia package consisting of Textbook of Cardiovascular Medicine Third Edition a DVD and access to a wealth of online resources Updated throughout by renowned international authorities Dr Topol's best selling text provides a comprehensive contemporary view of every area of cardiovascular medicine preventive cardiology clinical cardiology cardiovascular imaging electrophysiology and pacing invasive cardiology and surgical techniques heart failure and transplantation molecular cardiology and vascular biology and medicine The bound in DVD contains the full text plus heart sounds an image chart table bank and videos of procedures catheterization CT MRI echocardiography electrophysiology and pacing intravascular ultrasonography nuclear cardiology and surgery The Topol Solution Website includes the fully searchable text heart sounds

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Ischemia-reperfusion in cardiac surgery Hans Michael Piper,C.J. Preusse,2012-12-06 In open heart surgery protection of the myocardium against injury by ischemia reperfusion is an issue of utmost clinical interest The knowledge on the causal mechanisms of myocardial injury in ischemia reperfusion has greatly progressed in recent years both to clinical and experimental research This book provides a critical and comprehensive overview on the current discussion of myocardial protection in cardiac experimental research and surgery Leading groups from Europe the U S and Japan have contributed reviews of their special fields On the basic science side major topics discussed are the mechanisms of stunning and lethal reperfusion injury the role of the endothelium and leukocyte activation in postischemic myocardial dysfunction and the differences between the adult and neonatal myocardium On the clinical side the major concepts and procedures for cardioplegic myocardial protection their rationales application and respective merits are discussed In a third part of the book possible approaches for the monitoring of myocardial injury during ischemia and reperfusion are evaluated with particular attention to their intraoperative use This book brings together the scientific discussions on ischemia reperfusion in experimental cardiology and cardiac surgery a task needed for a long time It is of general interest for clinicians as well as research workers and students in the cardiac field

Animal models in cardiovascular research D.R. Gross,2013-04-17 Interest in the humane and scientifically justifiable use of research animals has intensified since the publication of the first edition of this textbook This completely revised and updated text provides information essential to any researcher interested in using animal models for cardiovascular research or any research which requires normal cardiovascular function The format and presentation have been changed to make the text more easy to read and use An introductory chapter offers general principles of animal selection pre and post operative care preanesthesia chemical restraint analgesia and the recognition of pain The number of references cited has been almost doubled over the previous text and the chapter tabulating normal cardiovascular parameters from intact awake animals of those species commonly used in research has been greatly expanded Other chapters providing comprehensive data on the cardiovascular effects of opioids tranquilizers anesthetic agents and other drugs commonly used in cardiovascular research

have been expanded with special emphasis on species variability to drug effects The chapters on both naturally occurring and iatrogenic models of cardiovascular disease have also been expanded and updated

Interventional Pericardiology

Bernhard Maisch, Arsen D. Ristic, Petar M. Seferovic, Teresa S. M. Tsang, 2011-10-18 Interventional Pericardiology gives a unique and comprehensive view on an often neglected but clinically very important part of cardiovascular disease The pericardium and the adjacent myocardium or epicardium The authors of this up to date compendium on pericardial disease etiology diagnostics and treatment Professors Bernhard Maisch Marburg Arsen Risti Belgrade Petar Seferovi Belgrade and Teresa Tsang Rochester focus on recent advances to the new window that has been opened to the heart by flexible and video assisted pericardioscopy modern biochemical immunohistological and molecular tools for the analysis of epicardial and pericardial biopsies which have been acquired safely under pericardioscopic control by the interventional pericardiologist Their book adds brand new information to the recent and so far only guidelines world wide by the European Society of Cardiology on the management of pericardial diseases This task force has been chaired by the lead author B Maisch Accordingly Interventional Pericardiology belongs in every medical library and on the desk of every cardiologist cardiologist interventionalist and trainee with an interest in pericardial diseases

Diagnosis and Treatment of Aortic Diseases C.A.

Nienaber, R. Fattori, 2012-12-06 This book is an up to date summary of all aspects of aortic disease written by international experts in their fields covering diagnostic concepts of all aortic diseases the most modern therapeutic approaches in various aortic syndromes the pathogenic origin and the most recent molecular and cellular findings that have revolutionized our present knowledge of aortic diseases The reader will come to understand the aorta as a functional organ with a complex regulatory system rather than just a major arterial vessel and will have a better understanding of the prognostic impact of various aortic syndromes and of the most recent therapeutic concepts for chronic as well as acute aortic pathology As a unique feature of this book the aorta is placed in the center of systemic illnesses such as atherosclerosis diabetes hypertension infectious diseases and connective tissue disorders storage diseases trauma and toxic factors this concept aims to attract the attention of both clinical specialties such as cardiology radiology and cardiovascular surgery and adjacent areas like pathology and clinical genetics The book portrays the aorta as an integral part of the cardiovascular system and the entire organism and features the complexity and clinical impact of all major aortic diseases

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