

Atlas of Practical Cardiac Applications of MRI

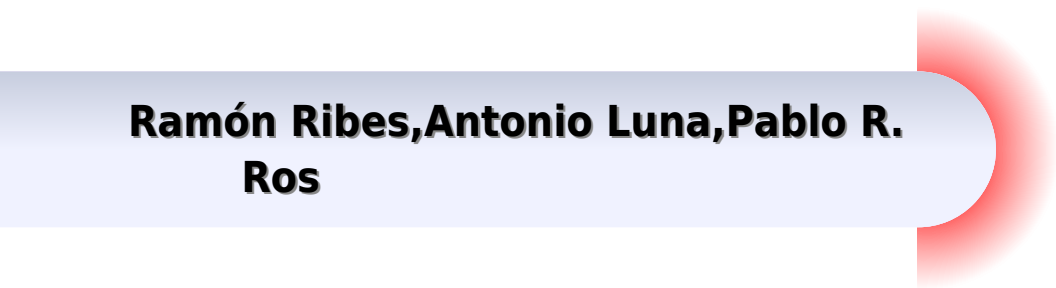
Guillem Pons-Lladó, Francesc Carreras, Xavier Borrás,
Maite Subirana and Luís J. Jiménez-Borreguero



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Atlas Of Practical Cardiac Applications Of Mri Developments In Cardiovascular Medicine

**Ramón Ribes, Antonio Luna, Pablo R.
Ros**



Atlas Of Practical Cardiac Applications Of Mri Developments In Cardiovascular Medicine:

Atlas of Practical Cardiac Applications of MRI Guillem Pons-Lladó,Francesco Carreras,Xavier Borrás,Maite Subirana,Luís J. Jiménez-Borreguero,2012-12-06 Glossary 4 Chapter 1 Basics of Cardiac Magnetic Resonance and 6 Normal Views 1 1 Definition and Physical Basics 6 a Definition and historical background 6 b Physical basics 6 1 2 Technical Modalities 10 a Spin echo 12 b Gradient echo 12 c Fast gradient echo 13 d Specialized techniques 13 e Techniques under clinical investigation 13 1 3 Study Methodology Normal Anatomy 13 a Technical equipment 13 b Medical personnel 13 c Preparation of the patient 13 d Normal MRI anatomy 17 References 17 Chapter 2 Ventricular Morphology and Function Study of 26 Cardiomyopathies 2 1 Morphological Study of Heart Chambers 26 a Left ventricle 26 b Right ventricle 31 2 2 Ventricular Function 31 a Left ventricular function 31 b Right ventricular function 33 2 3 Cardiomyopathies 33 a Dilated cardiomyopathy 33 b Hypertrophic cardiomyopathy 33 c Restrictive cardiomyopathy 35 d Arrhythmogenic dysplasia of the right ventricle 35 References 35 f Chapter 3 Acquired Diseases of the Aorta 38 I c 3 1 Technical Aspects of the Aortic Study by MRI Imaging the Normal Aorta 38 3 2 Aortic Aneurysm 43 3 3 Aortic Dissection and Related Entities OJ 43 a Strategy for the study of aortic dissection by MRI 43 I b Differential diagnosis of aortic dissection by MRI 47 References 49 c o U jj Chapter 4 Study of Valvular Heart Disease 54 4 1 Introduction 54 4 2 Velocity Calculation and Flow Quantitation 54 4

Atlas of Practical Applications of Cardiovascular Magnetic Resonance Guillem Pons-Llado,Francesco Carreras,2005-12-28 The Atlas of Practical Applications of Cardiovascular Magnetic Resonance contains over two hundred illustrations and a glossary of terms This atlas will assist cardiologists to determine when a CMR exam is useful for diagnosis and provide details on how to plan and read CMR studies Guillem Pons Llado MD is Director of the Cardiac Imaging Unit at the Hospital de la Santa Creu I Sant Pau Universitat Autònoma de Barcelona in Barcelona Spain Francesc Carreras MD is part of the Cardiac Imaging Unit at the Hospital de la Santa Creu I Sant Pau Universitat Autònoma de Barcelona in Barcelona Spain

Contemporary Concepts in Cardiology Richard Gorlin,George D. Dangas,Pavlos K. Toutouzas,M.M. Konstadoulakis,2012-12-06 In the era of instant global communication medicine is an international discipline characterized by a wide range of patient referral systems world wide discussion of clinical and research findings and an explosion in the medical literature Perhaps no field has progressed more than cardiology in the past few years Contemporary Concepts in Cardiology has been conceived as a supplement to the classic cardiology textbooks for the use of practicing physicians cardiologists in training medical students and research investigators This volume focuses on associations between refinements in the understanding of disease and clinical applications The material is presented in a way that limns the latest advances and focuses thinking towards future developments in cardiology The Editors have assembled a respected international panel of contributors so that each chapter is authored by a well known specialist in his or her field Every attempt was made to avoid the fragmentation which often characterizes the digest approach Because the constant flow of

information makes it nearly impossible to construct a timely book on advances in cardiology the chapters in this volume describe the current concepts in cardiology and their underlying rationale rather than attempting a comprehensive review of the most recent papers in each discipline

Molecular Genetics of Cardiac Electrophysiology C. Berul, Jeffrey A.

Towbin, 2000-04-30 The molecular basis for atrial fibrillation continues to be largely unknown and therapy remains unchanged aimed at controlling the heart rate and preventing systemic emboli with anticoagulation Familial atrial fibrillation is more common than previously suspected While atrial fibrillation is commonly associated with acquired heart disease a significant proportion of individuals have early onset without other forms of heart disease referred to as lone atrial fibrillators It is also well recognized that atrial fibrillation occurs on a reversible or functional basis without associated structural heart disease such as with hyperthyroidism or of atrial fibrillation following surgery It remains to be determined what percentage in these individuals is familial or due to a genetic predisposition Mapping the locus for familial atrial fibrillation is the first step towards the identification of the gene Isolation of the gene and subsequent identification of the responsible molecular genetic defect should provide a point of entry into the mechanism responsible for the familial form and the common acquired forms of the disease and eventually provide more effective therapy We know that the ionic currents responsible for the action potential of the atrium is due to multiple channel proteins as is electrical conduction throughout the atria Analogous to the ongoing genetic studies in patients with familial long QT syndrome it is highly likely that defects in each of these channel proteins will be manifested in familial atrial fibrillation

Cardiovascular Genetics for Clinicians P.A.F.M.

Doevendans, A.A.M. de Wilde, 2001-10-31 All physicians practicing medicine encounter patients suffering from cardiovascular disease This book has been outlined in such a way that vascular surgeons general internists neurologists and cardiologists should be able to use it The book covers the complete scope of cardiac diseases in addition to chapters on hypertension and atherosclerosis In many patients there is a family history of cerebrovascular accidents myocardial infarction or peripheral arterial disease Also in patients reporting collapse palpitations and arrhythmias the family is crucial and can provide clues to a genetic cause of the disease This book is published to guide physicians in the process of determining whether a genetic component is likely to be present Furthermore information is provided what the possibilities and limitations of DNA diagnostic techniques are Finally the importance of newly identified categories of potential patients i.e. gene carriers without symptoms or any inducible sign of disease is highlighted For some patients a genetic diagnosis is essential to determine appropriate therapy and for counseling In some other diseases DNA diagnostic tools are available but the relevant for the patients may be less clear In other families the search for a disease causing gene is ongoing and the possibilities to find genes and to unravel the pathophysiology of the disease is limited by the lack of patients To give insight into the current state of genetic diagnostics the authors have classified the cardiovascular diseases

Diagnostic and Interventional

Catheterization in Congenital Heart Disease James E. Lock, John F. Keane, Stanton B. Perry, 2000 Cardiac catheterization has

long been a central diagnostic modality in the evaluation of children adolescents and adults with congenital heart disease and in children with acquired heart disease Over the past two decades transcatheter interventions have become equally important in the treatment of pediatric and congenital heart disease Some transcatheter therapies have become established as the standard of care for congenital cardiovascular anomalies previously managed surgically others serve to supplement surgery in the integrated management of complex lesions and still others are in their infancy as pediatric interventional cardiology continues to advance in step with the broader field of pediatric cardiovascular medicine Since the previous edition of this book new technologies and techniques have been introduced to the field of pediatric interventional cardiology much has been learned about established transcatheter therapies and there has been a substantial increase in the volume of published data on outcomes of transcatheter procedures in congenital and pediatric heart disease With increasing experience the role of interventional catheterization has become solidified as an integral component of the comprehensive management of patients with essentially all forms of congenital heart disease Cardiac catheterization has also become established as a distinct subspecialty within the discipline of pediatric cardiology and at many centers has become the purview of cardiologists who have received specialized training in interventional catheterization and whose practice is focused on catheterization This book is targeted to trainees and established interventional cardiologists alike and is intended as a comprehensive reference for the clinical practice of diagnostic and interventional cardiology in pediatric and congenital heart disease In the organization of this book a combination of procedure based and problem based approaches has been employed The structure of the book has been updated to make it more reader friendly chapters have been added to address new techniques and problems in the field and greater emphasis has been placed on evaluation of outcomes of transcatheter interventions in congenital heart disease Section 1 covers the fundamentals of cardiac catheterization with chapters devoted to pre procedure patient evaluation sedation and anesthesia vascular access and related issues catheterization equipment and its use hemodynamic evaluation angiography radiation and radiation safety and echocardiography in the catheterization lab Sections 2 through 4 include procedure based chapters that are organized according to the technical type of intervention Section 2 is devoted to transcatheter interventions for obstructive lesions including valvar stenoses and vascular obstructions Section 3 includes chapters that cover interventions to close various pathologic intracardiac communications and vascular anomalies Section 4 includes chapters covering interventions performed to create or enlarge intracardiac communications as well as other interventions Section 5 focuses on the applications of catheterization and transcatheter interventions in the evaluation and management of specific patient populations This problem based or patient based focus which is substantially expanded from the previous edition of the book reflects the expanding role of catheterization in the comprehensive management of pediatric and congenital heart disease and addresses emerging applications of transcatheter interventions including management of the patient receiving extracorporeal circulatory support hybrid transcatheter surgical interventions

and prenatal cardiac intervention Section 6 includes two chapters that cover outcome assessment and regulatory issues pertinent to the pediatric cardiology in general and interventional cardiology in particular

The Role of Inflammatory Mediators in the Failing Heart Douglas L. Mann, 2012-12-06 Although clinicians have recognized the importance of inflammatory mediators in the pathogenesis of heart disease for well over 200 years it has taken nearly as many years for clinicians and scientists to focus on the basic biological mechanisms by which inflammatory mediators contribute to the pathogenesis of cardiac disease states Over the past decade there has been increasing interest in the potential role that inflammatory mediators play in a variety of cardiac disease states including chronic heart failure *The Role of Inflammatory Mediators in the Failing Heart* provides a state of the art review on inflammatory mediators and the failing heart This book will serve both as a useful introduction to the field as well as an update for those interested in the role of inflammatory mediators and the failing heart

Cardiac Imaging Secrets Neil J. Weissman, 2004 An exciting new addition to the highly popular Secrets Series this volume addresses the issues of when and how to obtain images of the heart what modality to use and how to interpret the results The five main sections are echocardiography nuclear cardiology catheterization including intravascular ultrasound and peripheral vascular imaging MRI and CT Radiology Concise answers that include the author's pearls tips memory aids Bulleted lists tables and illustrations for quick review Chapters written by experts their fields All the most important need to know questions and answers in the proven format of the highly acclaimed Secrets Series R Thorough highly detailed index

Surgical Options for the Treatment of Heart Failure R. Masters, 2000-01-31 This text provides the surgeon and cardiologist with a unique review of the surgical options available for the treatment of patients with severe left ventricular dysfunction including their indications and results The full spectrum of surgical therapies is covered from the more conventional techniques of coronary artery bypass valve replacement left ventricular aneurysm resection and transplantation to the new technique of ventriculectomy The future of permanent mechanical hearts and xenotransplantation is also discussed The authors include an international panel of experts with recognized expertise in their fields

Learning Diagnostic Imaging Ramón Ribes, Antonio Luna, Pablo R. Ros, 2008-11-06 This book is an introduction to diagnostic radiology including nuclear medicine Written in a user friendly format it takes into account that radiology is divided into many subspecialties that constitute a universe of their own The book is subdivided into ten sections such as musculoskeletal thoracic gastrointestinal cardiovascular and breast imaging Each chapter is presented with an introduction of the subspecialty and ten case studies with illustrations and comments

Cardiovascular Physiology in the Genetically Engineered Mouse Brian D. Hoit, Richard A. Walsh, 2001-10-31 The enormous advances in molecular biology and genetics coupled with the progress in instrumentation and surgical techniques have produced a voluminous and often bewildering quantity of data The need for a second edition of *Cardiovascular Physiology in the Genetically Engineered Mouse* is underscored not only by these rapid advances but by the increasing numbers of scientists who have focussed their research

on genetically engineered mice It is the primary objective of this second edition to interpret critically the literature and to provide a framework for the enormous amount of information in this burgeoning field As in the first edition the monograph serves as a practical guide for the investigator interested in the functional methods used to characterize the murine cardiovascular phenotype However this guidebook is a more comprehensive text than its predecessor although the major objectives enumerated in the first edition have not substantially changed they have been refined in keeping with the increased sophistication of the molecular biologist geneticist and physiologist in each other's discipline Each chapter has been expanded and updated richly enhanced with original tables and figures and in many cases extensively rewritten Eight chapters written by internationally recognized experts have been added this represents a 43 % increase from the first edition

Nondestructive Characterization and Imaging of Wood Voichita Bucur, 2003-05-12 This book on the Nondestructive Characterization and Imaging of Wood by Professor Voichita Bucur is truly the most outstanding reference on the subject ever written Since the origins of mankind wood has played a key role in the history of humans and other living creatures ranging from provision of life from trees giving air heat light and food to nourish their bodies to structures to protect them from the elements Wood has also played a key role in one of the world's primary religions Nondestructive diagnostics methods have long found application in medical practice for examination of the human body in order to detect life threatening abnormalities and permit diagnosis to extend life Nondestructive testing has been used for many years to insure the safety of machinery air craft railroads tunnels buildings and many other structures Therefore it is timely for a treatise like the present one to be written describing how wood can be characterized without employing destructive test methods Since wood is so valuable to mankind it is important to know the latest methods to nondestructively characterize wood for all practical applications

Resource Utilization in Cardiac Disease Lloyd W. Klein, James E. Calvin, 1999-07-31 Despite recent advances in the diagnosis and treatment of various cardiac illnesses including ischemic valvular and cardiomyopathic disease the most cost effective means of employing laboratory testing and treatment modalities remains an issue in most practice settings With the advent of managed care and vigilant third party payer evaluation of the use of diagnostic tests and hospital length of stay the most effective medical and economic method of managing everyday cardiac illness is a question that arises daily in practice To this end we have selected well known and widely published experts in cardiac diagnosis and therapy to develop practical and informative approaches outlining the most cost effective methods of patient management The topics include the entire range of cardiac diseases and emphasize the economic impact on decision making We develop guidelines and present general strategies for the practicing cardiologist and general internist Additionally the editors who have 10 years of experience in this area discuss the methods necessary to bring critical pathways and practice guidelines into clinical use Both hospital and out patient phases of illness are considered Special concerns of hospital private practice managed care and group practice settings are specifically addressed

Interpretation of Cardiac Arrhythmias Zainul

Abedin, Robert Conner, 2012-12-06 Accurate diagnosis of arrhythmias is the goal of this volume Before the clinician can accurately classify the multiple permutations of cardiac rhythm encountered in daily practice several essential preconditions must be met At the most basic level the clinician must know the diagnostic criteria for each rhythm Without a clear understanding of these criteria an accurate differential diagnosis is impossible and without accurate diagnosis correct intervention is a mere matter of chance A second precondition of accurate rhythm diagnosis is an understanding of the mechanism of arrhythmias Not uncommonly two or more arrhythmic mechanisms coexist confronting the clinician with a baffling mixture of apparently unrelated complexes and intervals Without an understanding of the various arrhythmic mechanisms simple and complex the tangled skein of data can never be unraveled Finally accurate arrhythmia diagnosis depends on skill attained through practice The competent electrocardiographer combines the skills of precise measurement and rational application of logic with broad theoretical knowledge The pleasure of electrocardiography is seeing through the surface appearance to the inner workings Interpretation of Cardiac Arrhythmias presupposes no prior knowledge of arrhythmias and progresses from basic to the complex The didactic sections focus extensively on the mechanism of arrhythmia using laddergrams and other diagrammatic devices to help the student visualize what is happening with the cardiac conduction system Extensive self assessment sections enable students to apply critical skills and test their grasp of the diagnostic criteria

Ventricular Fibrillation and Sudden Coronary Death Mina Rajska, 1999-08-31 The publication embodied here represents the life work of a premier Russian scientist studying Sudden Cardiac Death As one can gather from more than 35 first authored publications cited in the References Dr Rajska has been involved with the investigation of mechanisms responsible for Sudden Cardiac Death for over 30 years She has brought a classical approach to the subject considering the effects of blood supply disturbances electrophysiological changes that occur after regional ischemia metabolic alterations and the role of the autonomic nervous system in modulating these changes These studies naturally lead to a consideration of interventions based on her research to prevent ventricular fibrillation after coronary artery occlusion This is a wide ranging treatise indicative of a lifetime of study of the problem and filled with the richness of scientific experiments generated in its pursuit There is so much in here that will be of interest to the arrhythmologist interested in Sudden Cardiac Death whether this is on a single channel level in vitro study of hearts in vivo investigation of intact animals or at the bedside And throughout it all statements are copiously documented with more than 850 references That alone is worth hours of computer searching I am very proud to have been asked by this outstanding scientist to write a brief Preface to her monumental contribution All of us involved in the study of arrhythmic mechanisms responsible for Sudden Cardiac Death can hold Dr

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

Exercise Testing Myrvin H. Ellestad, Ezra A. Amsterdam, 2001-11-30 Since it was introduced less than 100 years ago analysis of the circulatory response to exercise as a measure of cardiac function has undergone remarkable development Most recently this approach has incorporated the burgeoning technology of the last half of the 20th century to meet the physiological and diagnostic needs of scientist and clinicians The ease of administration economy and abundant data that characterize exercise testing for its relative staying power as the most frequently utilized noninvasive method of cardiovascular evaluation The basic modalities of exercise electrocardiography of treadmill and bicycle have been extended by noninvasive cardiac imaging techniques including scintigraphy and echocardiography that have provided new insights in myocardial function during exertion and pharmacologic stress At the same time traditional exercise electrocardiography has also been refined by innovations that have broadened its applications Exercise Testing Current Concepts and Recent Advances affords the reader a state of the art presentation of the diverse and expanding methods of exercise testing and their roles in patient management The contributors to this volume include individuals who have made seminal contributions to the field during the last several decades Indeed it is legitimate to designate this group as a Who's Who of Exercise Testing It is our hope that this book will enhance the reader's understanding of contemporary methods of exercise testing as well as provide a glimpse into future directions of this science that this knowledge is applied to optimal diagnosis and management of our patients

Current Catalog National Library of Medicine (U.S.), 1993 First multi year cumulation covers six years 1965-70

Cardiovascular Specific Gene Expression P.A.F.M. Doevendans, Robert S. Reneman, Marc van Bilsen, 2013-04-17 Improving our insights into the genetic predisposition to cardiovascular disease is one of the most important challenges in our field in the next millennium not only to unravel the cause of disease but also to improve the selection of patients for particular treatments Nowadays for example subjects with a cholesterol above a particular plasma level are exposed to a cholesterol lowering regime based upon the beneficial outcome of epidemiological studies which include subjects not prone to the disease despite a plasma cholesterol above the accepted level Identification of the patients who are genetically predisposed to the consequences of this disorder will reduce the number of subjects unnecessarily treated and hence the costs of health care Because in most cardiovascular diseases the genetic component is a consequence of more than one gene defect only limited progress has as yet been made in identifying subjects genetically at risk For example in hypertension only in less than 10% of the patients the genetic defect has been identified It has been known for quite some time that in heart and blood vessels fetal genes are as high blood pressure and upregulated or induced when they are exposed to such

disorders ischemia Little is known about the function of these genes in the cardiac and vascular adaptation to these disorders only guesses can be made Oxidative Stress and Vascular Disease John F. Keaney Jr.,1999-12-31 One of the major biomedical triumphs of the post World War II era was the definitive demonstration that hypercholesterolemia is a key causative factor in atherosclerosis that hypercholesterolemia can be effectively treated and that treatment significantly reduces not only coronary disease mortality but also all cause mortality Treatment to lower plasma levels of cholesterol primarily low density lipoprotein LDL cholesterol is now accepted as best medical practice and both physicians and patients are being educated to take aggressive measures to lower LDL We can confidently look forward to important decreases in the toll of coronary artery disease over the coming decades However there is still uncertainty as to the exact mechanisms by which elevated plasma cholesterol and LDL levels initiate and favor the progression of lesions There is general consensus that one of the earliest responses to hypercholesterolemia is the adhesion of monocytes to aortic endothelial cells followed by their penetration into the subendothelial space where they differentiate into macrophages These cells and also medial smooth muscle cells that have migrated into the subendothelial space then become loaded with multiple large droplets of cholesterol esters the hallmark of the earliest visible atherosclerotic lesion the so called fatty streak This lesion is the precursor of the more advanced lesions both in animal models and in humans Thus the centrality of hypercholesterolemia cannot be overstated Still the atherogenic process is complex and evolves over a long period of time

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