

Coronary Artery Anomalies A Comprehensive Approach

This book presents the most up-to-date information on the practice of cardiac PET and hybrid PET/CT. Each chapter takes a step-by-step approach, from basic principles of instrumentation, imaging, and protocols to advanced discussions of current and future clinical applications. Coverage also includes a perspective on other emerging imaging modalities, such as MRI, and the relative role of each. In addition, the volume details the technical aspects of cardiac PET and PET/CT imaging. A library of original cases completes the text by illustrating interpretation and technical challenges in cardiac PET and hybrid PET/CT.

Comprehensive guide to cardiac diagnosis for clinicians. Covers new and traditional imaging techniques. Internationally recognised author team.

a comprehensive and real picture of the complexities of ischemic heart disease, both to the person who deals in day to day practice with its problems, as well as to the This book presents a comprehensive picture of is chemic heart disease to those who, either as practition student and resident who tries to develop firm concepts ers or students, deal with the varied facets of this com regarding the varied states observed in this common plex subject. It has meaning to the fields of clinical condition. cardiology, radiology, thoracic surgery, and pathology. After an introductory chapter on the

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anatomy of the coronary blood vessels, there follows a chapter on coronary arteriography. The latter considers techniques, indications, examples of normal and abnormal patterns, and complications of this procedure. Specific chapters deal with variations in the sites of origin and distribution of coronary arteries, both as seen angiographically and anatomically. Congenital anomalies of the coronary arteries which may engender states of ischemic heart disease are presented. The principal thrust of the work concerns the main arena of ischemic heart disease, namely, coronary atherosclerosis. The pathology of coronary atherosclerosis is presented in conjunction with the results of anatomic and angiographic studies. Major chapters discuss the subjects of angina pectoris, acute myocardial infarction, healed myocardial infarction, surgical "revascularization" with indications and the postoperative states, and the surgical treatment of myocardial infarction and its sequelae.

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

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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.

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Dr. Braunwald's masterwork returns ... bringing you the definitive guidance you need to overcome any challenge in clinical cardiology today, using the best approaches available! Hundreds of world authorities, many of them new to this edition, synthesize all of the recent developments that are revolutionizing practice - from the newest findings in molecular biology and genetics to the latest imaging modalities, interventional procedures, and medications. This multimedia e-edition includes not only the printed reference, but also access to the complete contents online, fully searchable, with regular updates and much more. The expertise of the contributors, the scope of the coverage, and the versatile, multimedia format all make this the ultimate reference for the practicing cardiologist. Locate the answers you need fast, thanks to a user-friendly, full-color design, complete with more than 1,500 color illustrations. Glean clinically actionable information quickly with Clinical Practice Points in every chapter. Access the complete contents of the 2-volume set online, fully searchable, plus regular updates to reflect the latest clinical developments · Focused Reviews · Commentaries · Late-Breaking Trials · and more. Apply the latest knowledge in your field with 7 new chapters on Acute Heart Failure · Device Therapy of Heart Failure · Emerging Therapies for Heart Failure · Complementary and Alternative Approaches to Management · Prevention and Management of Stroke · Hypertrophic Cardiomyopathy · and Coronary Arteriography Guidelines. Get fresh perspectives on your practice with contributions from more than 20 brand-new authors.

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

Building on the strength of the previous two editions, Bergman's Comprehensive Encyclopedia of Human Anatomic Variation is the third installment of the classic human anatomical reference launched by Dr. Ronald Bergman. With both new and updated entries, and now illustrated in full color, the encyclopedia provides an even more comprehensive reference on human variation for anatomists, anthropologists, physicians, surgeons, medical personnel, and all students of anatomy. Developed by a team of editors with extensive records publishing on both human variation and normal human anatomy, Bergman's Comprehensive Encyclopedia of Human Anatomic Variation is the long awaited update to this classic reference.

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. ? Comprehensive, current, and lavishly illustrated,

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Atlas of Interventional Cardiology thoroughly covers all of today's cardiac catheterization and coronary interventional procedures, including catheterization and stenting techniques, angiography, atherectomy, thrombectomy, and more. Full-color illustrations and procedural videos guide you step by step through every interventional procedure you're likely to perform. A one-of-a-kind, practical atlas, ideal for interventional cardiologists, trainees, and general cardiologists. Each chapter includes an introduction, several case studies, conclusion, and pertinent references. Complete coverage includes chapters on Catheterization in Childhood and Adult Congenital Heart Disease, Pitfalls in the Evaluation of Hemodynamic Data, Coronary Artery Anomalies, Pulmonary Angiography, Intravascular Imaging, Interventions for Structural Heart Disease, Thoracic Aortic Endovascular Grafting, and many more. Enhance Your eBook Reading Experience Read directly on your preferred device(s), such as computer, tablet, or smartphone. Easily convert to audiobook, powering your content with natural language text-to-speech.

Braunwald's Heart Disease remains your indispensable source for definitive, state-of-the-art answers on every aspect of contemporary cardiology. Edited by Drs. Robert O. Bonow, Douglas L. Mann, Douglas P. Zipes, and Peter Libby, this dynamic, multimedia reference helps you apply the most recent knowledge in

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molecular biology and genetics, imaging, pharmacology, interventional cardiology, electrophysiology, and much more. Weekly updates online, personally selected by Dr. Braunwald, continuously keep you current on the most important new developments affecting your practice. Enhanced premium online content includes new dynamic cardiac imaging videos, heart sound recordings, and podcasts. With sweeping updates throughout, and contributions from a "who's who" of global cardiology, Braunwald's is the cornerstone of effective practice. Continuously access the most important new developments affecting your practice with weekly updates personally selected by Dr. Braunwald, including focused reviews, "hot off the press" commentaries, and late-breaking clinical trials. Practice with confidence and overcome your toughest challenges with advice from the top minds in cardiology today, who synthesize the entire state of current knowledge and summarize all of the most recent ACC/AHA practice guidelines. Locate the answers you need fast thanks to a user-friendly, full-color design with more than 1,200 color illustrations. Search the complete contents online at www.expertconsult.com. Stay on top of the latest advances in molecular imaging, intravascular ultrasound, cardiovascular regeneration and tissue engineering, device therapy for advanced heart failure, atrial fibrillation management, structural heart disease, Chagasic heart disease, ethics in

cardiovascular medicine, the design and conduct of clinical trials, and many other timely topics. Hone your clinical skills with new dynamic cardiac imaging videos, heart sound recordings, and podcasts at www.expertconsult.com.

Exhaustive in its scope, this book provides a comprehensive study of the natural and modified history of congenital heart disease. Focusing particularly on the discussion of fetal and post-natal outcomes, the contributors seek to place developments in historical perspective. Virtually all surgical and catheter-based strategies to enhance outcomes of all forms of congenitally malformed heart are analysed, covering the morphology and genetic basis of each particular abnormality, and issues that were germane to evolving different therapeutic strategies. Using data from the records of the Toronto Hospital for Sick Children, contributors highlight the complications of the various forms of therapies and identifies particular risk factors for mortality and morbidity.

Is it advisable to go back from bedside to the bench? During the last decade, few topics encountered such a broad interest in bio- gy and medicine as angiogenesis. The amazing ability of the body to restore blood flow by induction of blood vessel growth as part of an adaptive process has alarmed physicians dealing with diseases in which angiogenesis is either exaggerated (as in tumors) or too slow (as in ischemic diseases of heart and brain). Not surprisingly, pro-

and antiangiogenic strategies have found their way into clinical trials. For instance, for the USA, the NIH website in early 2004 displayed 38 clinical studies involving either pro- or antiangiogenic therapies. Given the expected overwhelming wealth of clinical data, the question may be asked whether further exploration of biological mechanisms is required or whether results from the bedside are instructive enough to proceed. This question depends also on the progress of pro- and antiangiogenic clinical trials. In the following, I give a short overview about some of the progress that has been made in this field. Since Judah Folkman proposed antiangiogenic tumor therapy thirty years ago, it has become increasingly evident that agents which interfere with blood vessel formation also block tumor progression. Accordingly, antiangiogenic therapy has gained much attention as a potential adjunct to conventional cancer therapy. Ischemic heart disease is the leading cause of morbidity and mortality in the developed world. The high metabolism and oxygen demand of the cardiac myocardium depends on both a high blood flow and a rich capillary density. For this reason, the growth of the coronary vasculature is vital, not only in early development, but also in the adult faced with various stresses. Novel technologies have enabled the discovery of the molecular mechanisms underlying the growth and assembly coronary vessels, and this volume covers

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the hierarchy of the coronary vasculature from its embryonic origins through its postnatal growth, adulthood, and senescence. Chapters address normal coronary development, coronary anomalies and their possible underlying developmental errors, coronary vessel adaptations to exercise training, aging, hypoxia, myocardial ischemia, and cardiac hypertrophy. This comprehensive overview of current research in coronary vessels and myocardial perfusion was written by Dr. Robert J. Tomanek, Emeritus Professor of Anatomy and Cell Biology at the University of Iowa. The book reviews, discusses, and integrates findings from various areas of coronary vasculature research, and as a result, will be a valuable reference source for cardiovascular scientists and physicians for many years to come.

The Texas Children's Hospital Handbook of Congenital Heart Disease is authored by physicians, nurses, and allied staff across a wide variety of disciplines at the Heart Center at Texas Children's Hospital. The book is not intended as a comprehensive textbook in congenital heart disease but rather as a practical handbook to be used by students, residents, fellows, nurses, and congenital heart specialists for the day-to-day management of these complex patients. The Handbook describes the philosophy, protocols, and nuances of management of patients with congenital heart disease at Texas Children's

Hospital.

This atlas presents over 160 illustrations, with 116 in color, and illustrates the capacity of multidetector CT for the analysis of the anatomy of the coronary arteries. The multidetector CT scanner speeds diagnosis and treatment of patients. One of its many uses is to perform CT coronary angiography.

Multidetector CT provides clear pictures and takes less time than other non-invasive techniques. The book is written by cardiologists and radiologists.

This issue of Radiologic Clinics of North America focuses on Cardiac CT Imaging, and is edited by Drs. Suhny Abbara and Prabhakar Rajiah. Articles will include: Calcium scoring for cardiovascular CT: how, when and why?; Coronary CTA: acquisition, interpretation and state of the evidence; TAVR and TCMVR; Cardiac masses; Nonischemic cardiomyopathies; Acute and chronic myocardial infarcts, spectrum of manifestations; Pericardial disease; Relevant Adult Congenital Heart Disease; Congenital aortic disease; Cardiac Valves (excluding TAVR); Acute coronary and acute aortic syndromes; Acquired aortic disease (excluding acute aortic syndromes); Cardiac Trauma; Post Cardiovascular surgery findings; and more!

The aims and scope of this atlas include a complete review of the embryology of the normal heart, the normal cardiac anatomy along with a complete discussion

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of the terms and definitions used to identify and clarify both normal and abnormal anatomy. In addition, techniques of cardiac CT angiography as it pertains to imaging congenital abnormalities are discussed including radiation concepts and radiation saving techniques. The bulk of this book then goes on to completely review the field of adult congenital heart disease using text and more importantly a multitude of pictorial examples (in color and grey scale) to demonstrate the abnormalities. Drawings accompany each picture to better explain the example. Furthermore, difficult and complex anatomical examples are supplemented with digital images and movies to aid in illustrating and understanding the anatomy. Each general set of anomalies as well as each specific abnormality or set of abnormalities includes a concise and simple review of the embryology and epidemiology of the abnormality as well as a concise explanation of the anatomy of the abnormality. In addition, the methods to identify and recognize the abnormality by computed tomography is discussed. Finally, the prognosis and common treatment options for the anomaly are addressed within this comprehensive book.

This book presents an invaluable symptoms-based approach to sports cardiology for sports medicine physicians, primary care physicians, and cardiologists. Edited by an authority in the field, the text offers sought-after insight on the cardiac

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health of athletes. Case studies are featured throughout to further understanding and the integration of concepts into daily practice. With contributions by both sports medicine physicians and cardiologists, this timely book bridges the gap between disciplines and is an unparalleled resource for those looking to effectively manage the cardiac health of active patients.

This atlas is a comprehensive visual reference for the use of cardiovascular computed tomography (CT) containing photomicrographs, anatomic illustrations, tables, and charts paired with extensive legends and explanations that are supplemented by extensive research, peer-reviewed articles, and textbooks. In addition to providing historical perspective and current direction for CT, this new edition of *Atlas of Cardiovascular Computed Tomography 2e* focuses on research involving coronary artery diseases and anomalies, congestive heart failure, atherosclerotic plaques and asymptomatic disease, as well as imaging techniques, including preparation, acquisition, and processing, involving the great vessels and carotids, the peripheral vasculature, and coronary and pulmonary veins. The increasing role of CT in the emergency room and in private cardiology practice is also reviewed thoroughly, making this an essential read for all involved in cardiac imaging, cardiology and emergency medicine.

This text describes and illustrates with some 700 detailed anatomic and surgical

drawings the whole spectrum of surgical procedures employed to treat acquired and congenital diseases of the heart and great vessels in adults and children. A rather traditional chapter on history of cardiac surgery precedes chapters dedicated to quality improvement, followed by ICU management in adult and pediatric cardiac surgery, and techniques of extracorporeal circulation in both age groups. Further special topics are cardiovascular tissue engineering, minimally invasive cardiac surgery, endovascular treatment of aortic diseases, and cardiac assist devices, including total artificial heart. Written by 71 internationally recognized experts from 40 cardiac units in Central Europe and North America, this book will be invaluable not only for both novice and experienced surgeons, but also for all physicians, nurses, and technicians caring for patients with heart disease of any type, at any age.

This extensively revised textbook reviews the use of transesophageal echocardiography (TEE) in pediatric and young adult patients with cardiac disease. It reviews how TEE has made a vital contribution to these patients' successful and continually improving clinical outcomes, enabling them to live well into adulthood. The book details the evolving technology and applications of TEE (including three-dimensional TEE), describing how this imaging approach remains at the forefront of clinical practice for pediatric patients and those with

congenital heart disease (CHD). *Transesophageal Echocardiography for Pediatric and Congenital Heart Disease* represents a unique contribution as the only contemporary text to focus exclusively on the clinical application of TEE in children and all patients with CHD. Written by numerous prominent specialists in the field, it presents a comprehensive, modern and integrated review of the subject. Specific chapter topics include the physics and instrumentation of TEE, structural and functional evaluation, and specialized aspects of the examination, with emphasis on the technical considerations pertinent to both pediatric and adult patients with a variety of congenital and acquired cardiovascular pathologies. Consequently, it serves as a comprehensive reference for the TEE evaluation of CHD, utilizing the segmental approach to diagnosis and discussing the TEE evaluation of the many anomalies encompassing the CHD spectrum. In addition, numerous other relevant topics are discussed, including application of TEE for perioperative and interventional settings. The book is richly illustrated, with many chapters supplemented by illustrative case studies and accompanying videos. A specific section with multiple-choice questions and answers is provided at the end of each chapter to reinforce key concepts. This textbook therefore provides an invaluable and indispensable resource for all trainees and practitioners using TEE in the management of CHD and pediatric patients.

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This book provides comprehensive insights into congenital heart disease from embryonic development through to clinical features, including human genetics and our current knowledge of the underlying molecular pathways. It is divided into three parts: an introduction to the development of the heart and its vessels, an overview of the molecular pathways affecting the development of various cardiovascular structures, and a main section focusing on the different types of structural and nonstructural congenital heart diseases, including their clinical features, underlying genetic alterations and related animal models and pathways. Taken together these chapters, which were written by and for clinicians and researchers, provide an integrated and cutting-edge resource for all those who want to learn more about both the clinical aspects and the genetic and molecular basis of congenital heart disease.

Concise Paediatrics, Second Edition is essential reading for all postgraduates training in paediatrics, particularly when preparing for the MRCPCH exam, and for general practice trainees preparing for the DCH exam. As a comprehensive but concise reference to any condition they are likely to encounter on the wards or in the accident and emergency room, it will also be invaluable to doctors in other medical specialties who come into contact with children on a regular basis. The book is designed to provide readers with a full understanding of all of the

areas covered by the MRCPCH. It is structured logically by body system, with additional chapters on such topics as genetics, infectious disease, neonatology and emergencies. Edited by two highly experienced paediatricians—their knowledge complemented by a group of specialist contributors—it is written in a succinct, user-friendly style and includes lists, boxes and annotated diagrams to aid learning and retention of the facts. Since the first edition was published in 2000, Concise Paediatrics has established itself as the textbook of choice for MRCPCH candidates, and will remain a "must-have" with this revised and updated second edition.

This invaluable book is a comprehensive review of congenital heart defects in the major mammalian groups. It begins with a comparison of normal cardiac anatomy between these groups. The analysis of cardiac malformations is simplified and presented in a didactic manner. The anatomy of the common malformations is presented with examples. A comment on the common anomalies seen in each group, together with an extensive reference list, helps the reader to access the source of information easily. Contents: Introduction: Normal Hearts — A Comparison Sequential Segmental Analysis Definition, Causes, Frequency of Occurrence and Prevalence of Congenital Cardiovascular Defects Horses Cattle Pigs Sheep and Goats Dogs Cats Mice, Rates and

Rabbits Other Animals Comparative Aspects Readership: Zoologists and veterinary scientists. Keywords: Congenital Heart Defects; Congenital Heart Disease; Veterinary Science; Atrial Septal Effect; Ventricular Septal Effect; Mammalian Heart Disease; Cardiac Malformations; Hole in the Heart; Arrhythmia in Mammals; Review of Cardiac Malformations Reviews: "... the book represents a remarkable achievement and a valuable contribution to the literature on this topic." The Veterinary Record "... this is a well-written, very readable, interesting text on congenital malformations in mammals ... this is a unique and interesting book that will be of great value to many individuals with an interest in cardiac pathology." Veterinary Pathology "... the book presents congenital malformations in a large number of mammalian species in a thorough and informative manner. It is well researched and extensively referenced. The text is written in the first person and is generally very readable ... It will contribute significantly as a research and teaching resource ..." Australian Veterinary Journal

Coronary angioplasty is a procedure used to widen blocked or narrowed coronary arteries, the main blood vessels supplying the heart. The term 'angioplasty' means using a balloon to stretch open a narrowed or blocked artery. However, most modern angioplasty procedures also involve inserting a short wire-mesh tube, called a stent, into the artery during the procedure. The stent is left in place permanently to allow

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blood to flow more freely (NHS Choices). This book is a complete guide to the practice of coronary angioplasty for practising cardiologists and trainees. Beginning with an introduction to the evolution of the technique and the fundamentals of stent design, each of the following chapters provides in depth detail on angioplasty procedures for different disorders. The final sections discuss potential complications, rehabilitation, outcomes, and the future of angioplasty. This comprehensive text is highly illustrated with clinical photographs, diagrams and tables to enhance learning. Key Points
Comprehensive guide to coronary angioplasty for clinicians and trainees Describes the complete evolution of the technique, from its beginnings to future developments Covers angioplasty procedures for many different disorders Highly illustrated with clinical photographs, diagrams and tables

??This is the first major textbook to address both computed tomography (CT) and magnetic resonance (MR) cardiac imaging of adults for the diagnosis and treatment of congenital heart disease (CHD). Since the introduction of faster CT scanners, there has been tremendous advancement in the diagnosis of CHD in adults. This is mostly due to the higher spatial resolution of CT compared to MR, which enables radiologists to create more detailed visualizations of cardiac anatomic structures, leading to the discovery of anomalous pathologies often missed by conventional MR imaging. This book is unique in highlighting the advantages of both CT and MR for the diagnosis of CHD in adults, focusing on the complementary collaboration between the two

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modalities that is possible. Chapters include discussions of case examples, clinical data, MR and CT image findings, and correlative cadaveric pictures. The chapters focus not only on the diagnosis of the primary problem, but also give readers information on visual clues to look for that often reveal associated pathologies. This book appeals primarily to diagnostic and interventional radiologists, as well as cardiologists and interventional cardiologists.

Cardiovascular Imaging, a title in the Expert Radiology Series, edited by Drs. Vincent Ho and Gautham P. Reddy, is a comprehensive 2-volume reference that covers the latest advances in this specialty. It provides richly illustrated, advanced guidance to help you overcome the full range of diagnostic, therapeutic, and interventional challenges in cardiovascular imaging and combines an image-rich, easy-to-use format with the greater depth that experienced practitioners need. Online access at www.expertconsult.com allows you to rapidly search for images and quickly locate the answers to any questions. Access the fully searchable text online at www.expertconsult.com, along with downloadable images. View 5000 full-color digital images of both radiographic images and cutting-edge modalities—MR, multislice CT, ultrasonography, and nuclear medicine. Tap into comprehensive coverage that includes diagnostic and therapeutic options, with an emphasis on cost-effective imaging. Consult the experience of a diverse group of experts on cardiovascular imaging from around the globe. Find information quickly and easily thanks to consistent and tightly focused

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chapters, a full-color design, and key points boxes.

An atlas on coronary artery anomalies, this text provides a guide to the complex morphology that is essential to the understanding of coronary artery disease. The book features a variety of cases - with illustrative angiograms and diagrams - that demonstrates all possible anomalies and clarify what is abnormal. Each case includes clinical information, angiographic findings, other diagnostic material and a discussion. This new case-based book fills a gap in the literature by guiding the reader through the challenging clinical problems encountered in daily practice. Each case presents the clinician with a complete patient work-up that includes clinical history, radiological and clinical findings, treatment summary and suggested readings. Ideal for radiology and cardiology residents, as well as experienced physicians, this text helps the reader arrive at a diagnosis for each clinical problem presented.

Applied Echocardiography in CAD is a comprehensive guide to imaging techniques for a variety of heart conditions. Divided into two sections; section A covers the fundamentals of imaging techniques, and section B covers the clinical applications of these techniques. Applied Echocardiography in CAD provides an excellent source of reference for cardiologists and residents faced with these conditions day-to-day.

This atlas comprehensively describes the application of computed tomography (CT) and magnetic resonance (MR) imaging in real-world scenarios using 192 illustrative clinical cases. These imaging techniques are revolutionizing the diagnostic and

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therapeutic approach for cardiovascular patients and are progressively becoming viable sub-specialties among radiologists and cardiologists. Clinical Atlas of Cardiac and Aortic CT and MRI features clinically relevant case-based examples of how CT and MR imaging techniques can be applied to identify the pathological features of a range of acquired and congenital heart diseases. Using more than 1000 high-quality figures of distinctive CT and MR imaging features of most cardiovascular diseases, both acquired and congenital, it therefore provides a valuable resource for both specialist and non-specialist radiology/cardiology practitioners seeking to develop a deep understanding of how to recognize the features of a variety of heart diseases using CT and MR imaging techniques.

"Covering all aspects of CHDs, the chapters include important discussions on development, epidemiology, genetics, diagnosis, management, and prevention of these birth defects, as well as coverage of public health issues such as environmental risk factors and healthcare costs related to CHDs. This book will be of interest to geneticists, epidemiologists, cardiologists, pediatricians, graduate students, researchers, and others interested in the treatment of individuals' with CHDs." --Book Jacket.

Acquire a thorough understanding of cardiac imaging! "I believe radiologists, cardiologists, and clinicians, as well as trainees, will find The Complete Guide to Cardiac CT to be an indispensable tool for learning the subject matter....It is

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practical in approach, but is solidly grounded in evidence-based medicine with a comprehensive review of the literature and timely references. The textbook provides an ideal resource for the cardiac imager and serves as an exceptional reference tool for understanding the anatomy and disease processes of the heart and coronary circulatory systems."--Theresa C. McCloud, MD, Dept. of Radiology, Massachusetts General Hospital, and Professor of Radiology, Harvard Medical School (from the foreword) Based on the popular review courses of educator and radiologist Dr. Simeon Abramson, *The Complete Guide to Cardiac CT* is a timely, hands-on learning tool—one that will help you master every important aspect of cardiac CT, from acquisition to interpretation. This unique guide translates complex concepts and topics into understandable, relevant subject matter and includes contributions from international leaders in cardiac CT. Designed for the practical, day-to-day application of cardiac CT, the text also serves as a comprehensive visual resource more than 1000 laser-precise images and illustrations, all of which reflect the latest clinical acumen and cardiac imaging technology. **FEATURES** Focuses on the recognition, identification, and comprehension of heart and coronary circulatory pathology Valuable to clinicians at any experience level Logical 4-part organization consists of: Technology section that encompasses coronary CT angiography technique, radiation

concepts, and successful application of radiation dose reduction tools—plus a detailed review of strategies for overcoming suboptimal examinations, complete with case examples. Coronary Arteries section that thoroughly examines plaque detection and characterization, stenosis assessment, stents and bypass grafts, and assessment of coronary artery anomalies. Beyond the Coronary Arteries details cardiac CT anatomy; myocardial, pericardial and valvular pathology; electrophysiology applications; and congenital heart disease in both pediatric and adult populations. Controversial topics focuses on the utilization of cardiac CT in the acute setting, institution of the triple rule-out protocol, and anatomic versus physiologic imaging with Rubidium PET/CT/ Helpful pedagogy includes numerous tables, diagrams, figures, and illustrations

Publisher's Note: Products purchased from 3rd Party sellers are not guaranteed by the Publisher for quality, authenticity, or access to any online entitlements included with the product. ? Comprehensive, current, and lavishly illustrated, Atlas of Interventional Cardiology thoroughly covers all of today's cardiac catheterization and coronary interventional procedures, including catheterization and stenting techniques, angiography, atherectomy, thrombectomy, and more. Full-color illustrations and procedural videos guide you step by step through every interventional procedure you're likely to perform.

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This thorough revision of Color Atlas of Congenital Heart Surgery features 700 vividly reproduced intraoperative images taken with a special side-mounted flash. They convey exquisite perception of depth in the operative field in full color. The atlas presents surgical techniques for the full spectrum of cardiac congenital anomalies. This includes revised and updated text on many topics such as repair of straddling tricuspid valve associated with the posterior ventricular septal defect. Throughout the text, the carefully labeled photographs provide vivid representation of three-dimensional spatial relations of congenital anomalies and surgical anatomy.

Current, comprehensive, and evidence-based Braunwald's Heart Disease remains the most trusted reference in the field and the leading source of reliable cardiology information for practitioners and trainees worldwide. The fully updated 12th Edition continues the tradition of excellence with dependable, state-of-the-art coverage of new drugs, new guidelines, more powerful imaging modalities, and recent developments in precision medicine that continue to change and advance the practice of cardiovascular medicine. Written and edited by global experts in the field, this award-winning text is an unparalleled multimedia reference for every aspect of this complex and fast-changing area. Offers balanced, dependable content on rapidly changing clinical science, clinical and

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translational research, and evidence-based medicine. Includes 76 new contributing authors and 14 new chapters that cover Artificial intelligence in Cardiovascular Medicine; Wearables; Influenza, Pandemics, COVID-19, and Cardiovascular Disease; Tobacco and Nicotine Products in Cardiovascular Disease; Cardiac Amyloidosis; Impact of the Environment on Cardiovascular Health, and more. Features a new introductory chapter Cardiovascular Disease: Past, Present, and Future by Eugene Braunwald, MD, offering his unique, visionary approach to the field of cardiology. Dr. Braunwald also curates the extensive, bimonthly online updates that include "Hot Off the Press" (with links to Practice Update) and "Late-Breaking Clinical Trials". Provides cutting-edge coverage of key topics such as proteomics and metabolomics, TAVR, diabetocardiology, and cardio-oncology. Contains 1,850 high-quality illustrations, radiographic images, algorithms, and charts, and provides access to 215 videos called out with icons in the print version. Highlights the latest AHA, ACC, and ESC guidelines to clearly summarize diagnostic criteria and clinical implications. Provides tightly edited, focused content for quick, dependable reference. Flexible format options include either one or two volumes in print, as well as a searchable eBook with ongoing updates.

This textbook provides a comprehensive, yet practically orientated overview of

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classic and novel sports cardiology topics, based on current evidence, guidelines, recommendations and expert experience. Numerous publications have provided guidance to these issues, but it has become increasingly difficult for both students and doctors to obtain a thorough, but practicable overview for optimal clinical care of athletes and patients. This book is intended as an educational work, filling the large gaps that are still present in the current educational guidelines for medical students and cardiology trainees. Textbook of Sports and Exercise Cardiology differs from other sports cardiology books by focusing on clear, practical recommendations based on the latest evidence, primarily targeting those who seek professional background information and education that can easily be transferred into everyday care.

The second edition of this important work provides a broad range of cardiac CT angiography (CCTA) cases covering normal anatomy, congenital coronary anomalies, coronary artery disease, percutaneous coronary intervention, postsurgical coronary revascularization, and extra-coronary abnormalities. It is designed to help practicing radiologists, cardiologists, and cardiothoracic surgeons understand the current issues involved with clinical, interventional, and surgical management of coronary artery CTA. Each case consists of detailed CCTA images, a brief history, diagnosis, discussion, and pearls and pitfalls. This

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updated and expanded edition includes new chapters on principles of cardiac CT, patient preparation, cardiomyopathies, pediatric cardiac CT, cardiac CT in the emergency department, CT-FFR, and reporting cardiac CT.

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