Coronary Artery Anomalies: A Comprehensive Approach

Echocardiography in Pediatric and Congenital Heart Disease

The two main causes of death in the world are directly related to cardiovascular system disorders, ischemic heart disease, and stroke. These pathological conditions are caused by complex molecular mechanisms related to endothelial dysfunction and, finally, structural and functional alterations of blood vessels. Clinical evidence demonstrates the relevance of knowledge about vascular biology, from molecular mechanisms to clinical applications, especially for students of medical sciences or basic sciences. This book is an international effort of collaboration, with the purpose to create an academic tool for students or people interested in learning about vascular biology. I invite the readers to check the chapters and explore the topics developed by experts in the field.

Congenital Cardiac Anesthesia

Is it advisable to go back from bedside to the bench? During the last decade, few topics encountered such a broad interest in biology 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 chemotherapy.

Color Atlas of Congenital Heart Surgery

Image Processing for Automated Diagnosis of Cardiac Diseases highlights current and emerging technologies for the automated diagnosis of cardiac diseases. It presents concepts and practical applications, including techniques for the automated diagnosis of organs in motion using image processing. This book is suitable for biomedical engineering researchers, engineers and scientists in research and development, and clinicians who want to learn more about and develop advanced concepts in image processing to overcome the challenges of automated diagnosis of heart disease. Includes advanced techniques to improve diagnostic methods for various cardiac diseases Uses methods to improve the existing diagnostic features of echocardiographic machines Develops new diagnostic features for echocardiographic machines

The Complete Guide to Cardiac CT

The Arterial Switch Operation

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 demonstrate all possible anomalies and clarify what is abnormal. Each case includes clinical information, angiographic findings, other diagnostic material and a discussion.

Congenital Heart Disease: A Surgical Color Atlas

Written and endorsed by world experts from the American Society of Echocardiography (ASE), this unique multimedia resource uses text, case studies, and online components to cover the latest uses of echocardiography, including the most recent 2D and 3D advances. Unlike other existing textbooks in echocardiography, including the predecessor of this volume, entitled Dynamic Echocardiography, this 2nd edition, with its new title, covers a full range of topics, reflected in its 200 chapters that include essential material in a succinct format. Dr. Roberto M. Lang and his expert colleagues provide everything you need to assess cardiac anatomy and function and obtain clinically useful, noninvasive information for more accurate diagnosis and evaluation of heart disease. Tap into the knowledge and skills of a team of experts from the ASE, led by world-renowned authorities in echocardiography. Consult this title on your favorite e-reader. Get fully up to date with the latest echo practice guidelines and advanced technologies, including 3D echocardiography and myocardial strain. Gain a better understanding of the latest methods...
Comprehensive Approach to Congenital Heart Diseases

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.

Atlas of Cardiac Catheterization and Interventional Cardiology

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.

Pathology of Heart Disease in the Fetus, Infant and Child

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 modalities that is possible. Chapters include discussions of case examples, clinical data, MR and CT image findings, and correlation of radioactive 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.

Surgery for Congenital Heart Defects

Echocardiography is essential in the practice of pediatric cardiology. A clinical pediatric cardiologist is expected to be adept at the non-invasive diagnosis of congenital heart disease and those who plan to specialize in echocardiography will need to have knowledge of advanced techniques. Echocardiography in Pediatric and Congenital Heart Disease addresses the needs of trainees and practitioners in this field, filling a void caused by the lack of material in this fast-growing area. This new title comprehensively covers the echocardiographic assessment of congenital heart disease, from the fetus to the adult, plus acquired heart disease in children. Topics covered include: ultrasound physics laboratory set-up a protocol for a standard pediatric echocardiogram quantitative methods of echocardiographic evaluation, including assessment of diastolic function in depth coverage of congenital cardiovascular malformations acquired pediatric heart disease topics of special interest, such as 3D echocardiography, transesophageal echocardiography, and fetal echocardiography The approach of this book is a major advancement for educational materials in the field of pediatric cardiology, and greatly enhances the experience for the reader. An accompanying DVD with moving images of the subjects covered in the textbook will further enhance the learning experience.

Atlas of Cardiovascular Computed Tomography

Transesophageal Echocardiography for Congenital Heart Disease represents a unique contribution as the only contemporary reference to focus exclusively on the clinical applications of transesophageal echocardiography (TEE) in congenital heart disease (CHD). Written by numerous prominent specialists and renowned leaders in the field, it presents a comprehensive, modern, and integrated review of the subject in light of the cumulative experience and most recent advances in the technology. Topics related to CHD include: (1) physics and instrumentation of TEE, particularly as they apply to the structural evaluation; (2) specialized aspects of the examination, with emphases on technical considerations pertinent to both pediatric and adult patients with congenital cardiovascular pathology; (3) segmental approach to diagnosis and functional assessment; (4) extensive discussion of the TEE evaluation of the many anomalies encompassing the CHD spectrum; (5) use of the imaging modality in the perioperative and interventional settings; and (6) important aspects of 3D TEE evaluation. Richly illustrated by more than 700 figures/illustrations and 400 videos, this textbook will serve as an indispensable resource for all who use TEE in the care of both children and adults with CHD, from the novice to the expert.

Cardiovascular Disability

The Social Security Administration (SSA) uses a screening tool called the Listing of Impairments to identify claimants who are so severely impaired that they cannot work at all and thus immediately qualify for benefits. In this report, the IOM makes several recommendations for improving SSA’s capacity to determine disability benefits more quickly and efficiently using the Listings.

Interventional Cardiology Imaging
Cardiovascular Pathology, Fourth Edition, provides users with a comprehensive overview that encompasses its examination, cardiac structure, both normal and physiologically altered, and a multitude of abnormalities. This updated edition offers current views on interventions, both medical and surgical, and the pathology related to them. Congenital heart disease and its pathobiology are covered in some depth. Each section has been revised to reflect new discoveries in clinical and molecular pathology, with new chapters updated and written with a practical approach, especially with regards to the discussion of pathophysiology. New chapters reflect recent technological advances with cardiac devices, transplants, genetics, and immunology. Each chapter is highly illustrated and covers contemporary aspects of the disease processes, including a section on the role of molecular diagnostics and cytogenetics as specifically related to cardiovascular pathology. Customers buy the Print + Electronic product together! Serves as a contemporary, all-inclusive guide to cardiovascular pathology for clinicians and researchers, as well as clinical residents and fellows of pathology, cardiology, cardiac surgery, and internal medicine. Offers new organization of each chapter to enable uniformity for learning and reference: Definition, Epidemiology, Clinical Presentation, Pathogenesis/Genetics, Light and Electron Microscopy/Immunohistochemistry, Differential Diagnosis, Treatment and Potential Complications Features six new chapters and expanded coverage of the normal heart and blood vessels, cardiovascular devices, congenital heart disease, tropical and infectious cardiac disease, and forensic pathology of the cardiovascular system. Contains 400+ full color illustrations and an online image collection facilitate research, study, and lecture slide creation.

State of the Art Surgical Coronary Revascularization

Cardiovascular and Coronary Artery Imaging, Volume One covers state-of-the-art approaches for automated non-invasive systems in early cardiovascular disease diagnosis. The book includes several prominent imaging modalities, such as MRI, CT and PET technologies. Special emphasis is placed on automated imaging analysis techniques, which are important to biomedical imaging analysis of the cardiovascular system. This is a comprehensive, multi-contributed reference work that details the latest developments in spatial, temporal and functional cardiac imaging. Takes an integrated approach to cardiovascular and coronary imaging, covering machine learning, deep learning and reinforcement learning approaches. Covers state-of-the-art approaches for automated non-invasive systems for early cardiovascular disease diagnosis. Provides a perspective on future cardiovascular imaging and highlights areas that still need improvement.

Pediatric Cardiac CT in Congenital Heart Disease

Clinical Diagnosis of Congenital Heart Disease is the latest edition of this comprehensive, highly illustrated guide to the diagnosis of different forms of congenital heart disease. The book is divided into four parts: the first section covers the basics of congenital heart disease, followed by sections on acyanotic lesions and cyanotic lesions on aycyanotic lesions in congenital heart disease. The book contains an extensive range of defects and disorders. The final section provides information on foetal echocardiography and transcatheter interventions. This new edition features ‘notes’ which emphasise important points, and provides detailed information on the role of electrocardiography, radiography and echocardiography in diagnosis. Enhanced by 345 images and illustrations in full colour, Clinical Diagnosis of Congenital Heart Disease is an essential update for cardiologists. Key Points: New edition of highly illustrated guide to diagnosis of congenital heart disease. Previous edition published 2008 (9781844816171). Four sections cover basics, acyanotic lesions, cyanotic lesions, and miscellaneous topics. 345 full colour images and illustrations.

Image Processing for Automated Diagnosis of Cardiac Diseases

This book serves as a comprehensive guide to pediatric cardiac computed tomography (CT), particularly for patients with congenital heart disease. Congenital heart disease (CHD) is the leading cause of congenital abnormalities (8/1000 of live births). Over the past two decades, the diagnostic medical approach has significantly changed with a considerable increase in the number of CT studies in pediatric patients. Preoperative surgical or interventional planning for children with CHD remains crucial and challenging, but despite this and the advancement in the development of new CT techniques and radiation dose reduction protocols, there is limited focus on offering a complete book at the techniques and clinical utilization for pediatric cardiac CT with liberal use of images. The text begins with overarching themes of pediatric cardiac CT, like its advantages and techniques, and moves into covering different areas of the heart and possible presentations, like atrioventricular connections and cardiac tumors. Each chapter begins with a short introduction followed by preoperative and postoperative cardiac CT imaging, management approach, and short-term and long-term outcomes. This book also describes the novel technologies being used for three-dimensional modelling and three-dimensional printing in the surgical preparation of patients with complex congenital heart disease. This book is the first to address pediatric cardiac CT image fusion to fluoroscopy to guide catheterization in patients with complex congenital heart disease. Radiation dose reduction during cardiac catheterization is also an important part of diagnostic and interventional cardiac catheterization that is covered in detail. The book concludes with an overarching look at the role of cardiac CT in the pre- and post-operative evaluation of congenital heart disease in children. This book is an ideal guide for pediatric radiologists, pediatric cardiologists, pediatric cardiothoracic surgeons, related trainees, and any physician interested in advanced cardiac imaging.

Critical Cases in Electrocardiography

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. 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 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.

Vascular Biology

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 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...
Comprehensive Approach

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 anatomic examples are combined 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.

Cardiovascular Pathology

Designed to meet the needs of clinicians working with adults with congenital heart disease, Diagnosis and Management of Adult Congenital Heart Disease, by Drs. Michael A. Gatzoulis, Gary D. Webb, and Piers E. F. Daubney, offers essential guidance on the anatomi- cal issues, clinical presentation, diagnosis, and treatment options available to practitioners today. This latest edition features completely updated content, including new information for nurses and nurse practitioners who, now more than ever, are playing an important role in the care of adults with CHD. You’ll also access four new chapters, illustrated congenital defects, coverage of long-term outcomes, and much more. Drs. Gatzoulis, Webb, and Daubney lead a team of experts ideally positioned to provide state-of-the-art global coverage of this increasingly important topic. Each disease-oriented chapter is written to a highly structured template and provides key information on incidence, genetics, morphology, presentation, investigation and imaging, and treatment and intervention. Congenital defects are illustrated with full-color line drawings and by the appropriate imaging modality (for example, EKG, x-ray, echocardiogram, MRI, CT., ). Provides coverage of long-term outcomes, including the management of pregnant patients and patients undergoing non-cardiac surgery. Features the addition of four new chapters: A Historic Perspective: Quality of Life in Patients with Pulmonary Hypertension; Psychosocial Issues in ACHD; Supportive and Palliative Care for End-Stage ACHD.

Clinical Diagnosis of Congenital Heart Disease

Clearly presents the pathology of heart disease from fetus to adolescence, integrating histology and macroscopy with effects of treatment.

Cardiovascular and Coronary Artery Imaging

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.

Atlas of Non-Invasive Coronary Angiography by Multidetector Computed Tomography

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.

Coronary Heart Disease

This is the most authoritative textbook ever dedicated to the art and science of surgical coronary revascularization, with 71 chapters, organized in 9 sections, and written by over 100 recognized world experts. It covers every aspect of the surgical management of coronary artery pathology and ischaemic heart disease.

ASE’s Comprehensive Echocardiography E-Book

Congenital heart disease (CHD) is a problem with the structure and function of the heart that is present at birth and is the most common type of birth defect (PubMed Health). This comprehensive guide offers a step by step approach to the diagnosis and management of different types of CHD, at different stages of life. Beginning with an introduction to the development of the foetal cardiovascular system and genetic, the following section discusses the basics of heart examination, radiography and terminology. Each section progresses through different conditions and examines the transition of care into adulthood and long term issues facing adults with CHD. Key points Comprehensive, step by step guide to congenital heart disease (CHD) Covers diagnosis and management of CHD disorders at all stages of life Internationally recognised author and editor team Includes more than 1000 full colour images and illustrations

Coronary Magnetic Resonance Angiography

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.

Transesophageal Echocardiography for Congenital Heart Disease

Acquire a thorough understanding of cardiac imaging! "I believe radiologists, cardiologists, and clinicians, as well as trainees,
Comprehensive Approach

Read Book Coronary Artery Anomalies A Comprehensive Approach

will find The Complete Guide to Cardiac CT to be an indispensable tool for learning the subject matter. It is 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. -- 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

Atlas of Interventional Cardiology

Over 10 years after the publication of the second edition, Wiley now publishes the third edition of the popular volume Surgery for Congenital Heart Defects. Completely updated and expanded, this new edition describes step-by-step the surgical procedures for congenital heart defects and includes detailed illustrations for each operation. New in this edition are chapters on exercise testing, MRI, EP studies and catheter ablation of arrhythmias, extracorporeal circulation support and pediatric lung transplantation. A greatly expanded ultrasound chapter contains numerous color Doppler’s of many conditions. Surgery for Congenital Heart Defects, Third Edition: Provides complete coverage of the current issues in pediatric cardiac surgery Offers tips and surgical techniques to master difficult surgical situations Uniquely displays detailed illustrations for each operation, allowing surgeons to follow all operating procedures step-by-step Serves both as reference and training manual

CT and MR Angiography

Written by world-renowned experts in both CT angiography and MR angiography, this landmark work is the first comprehensive text on vascular imaging using CT and MR. It provides a balanced view of the capabilities of these modalities and practical guidelines for obtaining and interpreting images. More than 2,200 illustrations complement the text. Chapters co-authored by CT and MR authorities cover imaging of all coronary and non-coronary arteries and veins. Each chapter details indications, imaging strategies, normal and variant anatomy, diseases, surgical management, and pitfalls. The authors compare the utility of CT and MR in specific clinical situations and discuss the role of conventional angiography and ultrasound where appropriate.

Practical Cardiology

Interventional cardiology has transitioned from angiographic subjective analysis of stenosis severity into assessment of plaque characteristics and objective assessment of stenosis severity. The evolution of novel interventional imaging modalities is progressively altering our understanding of coronary artery disease diagnosis and prognosis. This book will be an essential companion to assist interventional cardiologists in better assessing patients with Coronary Artery Disease. It will encompass and review all interventional imaging modalities and provide guidance for interventional cardiologists to use these modalities.

Grossman & Baim's Cardiac Catheterization, Angiography, and Intervention

In recent years, there has been increasing interest in the clinical applications of coronary angiography techniques. Coronary MRA can be instrumental in the evaluation of congenital coronary artery anomalies, however, the complexity of advanced MR pulse sequences and strategies may be overwhelming to many. Coronary MR Angiography demystifies the art of coronary MRA by providing a text in plain language with clearly illustrated imaging steps and protocols. Designed to bridge the gap between radiology and cardiology, it is written for physicians and scientists planning to incorporate this technique into their research or practice.

Atlas of Adult Congenital Heart Surgery

In this major revision and expansion of a highly respected reference work, the authors have created the most comprehensive and up-to-date review of the nutritional strategies available for the prevention of disease and the promotion of health through nutrition. This new edition combines fully updated versions of the best chapters of the first two editions with updated critical chapters from the much-praised Primary and Secondary Preventive Nutrition, and adds 16 new chapters. Here, practicing health professionals will find all new reviews of lycopene, tomatoes and prostate cancer, soy and cancer prevention; the effects of dietary supplement use on prescription drugs, osteoarthritis, osteoporosis, and cardiovascular disease; balanced, data-driven reviews of the effects of antioxidant supplements on health outcomes, and more. By synthesizing the latest data and integrating it into the broad body of existing nutrition, this book provides in-depth guidance on nutrition and the prevention of cancer, cardiovascular disease, bone diseases, obesity, and diabetes, and on achieving optimal pregnancies and birth outcomes.

Diagnosis and Management of Adult Congenital Heart Disease E-Book

This atlas comprehensively covers surgical techniques for congenital heart surgery. As the population with congenital heart defects increases more and more operations will be required to treat the residual defects, new defects, and replacement strategies such as valve replacements. Chapters are devoted to specific conditions and feature detailed descriptions of how to perform a variety of appropriate reparative surgical techniques; involving complex anatomy, reoperative surgery, and unique techniques to this specialty, enabling the reader to develop a deep understanding of how to successfully resolve situations such as left ventricular outflow tract obstruction, anomalous pulmonary venous return, and anomalous origin of the coronary arteries. Atlas of Adult Congenital Heart Surgery provides a foundational resource for practising and trainee cardiac surgeons, nurses,
Cardiac CT and MR for Adult Congenital Heart Disease

Coronary Heart Disease: Clinical, Pathological, Imaging, and Molecular Profiles presents a comprehensive picture of ischemic heart disease for practitioners, students, and investigators dealing with the varied facets of this complex subject. Individual chapters introduce the anatomy of the coronary blood vessels and cardiac development, while others consider current imaging modalities utilized for ischemic heart disease, including stress echo, nuclear diagnostic tests, non-invasive coronary artery imaging, and coronary angiography. Imaging chapters provide key clinical information on techniques and indications, and include examples of both normal and abnormal patterns. The principle thrust of the book concerns coronary atherosclerosis, the pathology of which is presented in conjunction with the results of anatomic, non-invasive imaging and angiographic studies. Related chapters cover atherogenesis, presenting new insights into the pathophysiology of the vulnerable plaque, the role of progenitor cells in vascular injury, inflammation and atherogenesis, and the genomics of vascular remodeling. Additional topics covered include angina pectoris, acute coronary syndromes, healed myocardial infarction and congestive heart failure, catheter-based and surgical revascularization, and surgical treatment of myocardial infarction and its sequelae. With contributions from a diverse group of internationally-known physicians with broad experience in the diagnosis and treatment of coronary heart disease, this book will be a valuable resource for practitioners in clinical cardiology, thoracic surgery, pathology, and cardiovascular molecular research, as well as for students in training.

Preventive Nutrition

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, atherecromy, thrombectomy, and more. Full-color illustrations and procedural videos guide you step by step through every interventional procedure you're likely to perform.

Mechanisms of Angiogenesis

Concise Paediatrics, Second Edition

From basic clinical facts to new advanced guidelines, Practical Cardiology, by Drs. Majid Maleki, Azin Alizadehasl, and Majid Bakhjoo, is your new go-to resource for new developments in cardiology knowledge, imaging modalities, management techniques, and more. This step-by-step, practical reference is packed with tips and guidance ideal for residents, fellows, and clinicians in cardiology, as well as internal medicine, cardiac surgery, interventional cardiology, and pediatric cardiology. Features a wealth of information, including practical points from recently published guidelines, ECGs, hemodynamic traces of advanced imaging modalities in real patients, and much more. Offers a comprehensive review of cardiovascular medicine, from basic to advanced.

CT Atlas of Adult Congenital Heart Disease

Focuses on advanced ECG tracings, including abnormalities frequently missed by experienced clinicians and computer algorithms.

Coronary Artery Anomalies

An illustrated guide for anesthesia providers for congenital heart disease patients, with a focus on non-cardiac operating room settings.

The Natural and Modified History of Congenital Heart Disease

Covering both classical modalities of echocardiography and newer techniques, Clinical Echocardiography of the Dog and Cat - E-Book offers current information into a single cohesive source covering classical modalities and newer techniques, as well as updates relating to normal echocardiographic examinations and values. 50 videos on the companion website demonstrate how to perform echocardiography procedures, illustrating points such as swirling vortices, color flow display of blood flows, dynamic collapses secondary to pericardial effusion, and tumors flicking in and out of the echocardiographic field. A section on presurgical assessment helps you assess risk and prepare for catheter-based correction of cardiac defects — accurate measurements and
proper device selection are key to a successful procedure. Over 400 full-color illustrations and 42 summary tables help you achieve precise, high-quality imaging for accurate assessment, including photographs of cadaver animal specimens to clarify the relationship between actual tissues in health and disease and their images.