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# CORONARY ARTERY ANOMALIES



*Edited by*  
***Paolo Angelini***

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LIPPINCOTT WILLIAMS & WILKINS

# Coronary Artery Anomalies A Comprehensive Approach

**Matthias Clauss, Georg Breier**



## **Coronary Artery Anomalies A Comprehensive Approach:**

*Coronary Artery Anomalies* Paolo Angelini, 1999 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 Atlas of Non-Invasive Coronary Angiography by Multidetector Computed Tomography Guillem Pons-Llado, Ruben Leta-Petracca, 2007-03-06 Chapter 1 Basics and Performance of Cardiac Computed Tomography 3 Xavier Alomar Serrallach Ernesto Castillo Gallo Guillem Pons Llad 1 1 Introduction 3 1 2 Historical Perspective of Computed Tomography 3 1 3 Basic Principles of Multidetector Computed Tomography in the Study of the Heart 4 1 3 1 Detectors 5 1 3 2 Image reconstruction 5 1 3 3 Temporal resolution 7 1 3 4 Spatial resolution 7 1 3 5 Control of radiation dose 8 1 4 Performance of a Cardiac MDCT Study 9 1 4 1 Preparation of the patient 9 1 4 2 Image acquisition and contrast administration 9 1 4 3 Image reconstruction 11 Chapter 2 Normal Anatomy and Congenital Abnormalities of the Coronary Arteries 15 Rub n Leta Petracca 2 1 Introduction 15 2 2 Left Coronary Artery 17 2 2 1 Left main LM artery 17 2 2 2 Left anterior descending LAD 18 2 2 3 Left circum ex LCx 22 2 2 4 Intermediate coronary artery 23 2 3 Right Coronary Artery RCA 26 2 4 Pattern of Dominance of the Coronary Arteries 302 5 Congenital Anomalies of the Coronary Arteries 33 2 5 1 Anomalies relatable to myocardial ischemia 35 2 5 2 Anomalies not leading to myocardial ischemia 37 Chapter 3 Detection and Quanti cation of Coronary Artery Calcium by MDCT 43 Francesc Carreras 3 1 Introduction 43 3 2 CAC Quanti cation The Agatston Method 44 3 A Comprehensive Approach to Congenital Heart Diseases IB Vijayalakshmi, P Syamasundar Rao, Reema Chugh, 2013-02-28 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 Mechanisms of Angiogenesis Matthias Clauss, Georg Breier, 2004-11-22 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

**Bergman's Comprehensive Encyclopedia of Human Anatomic Variation** R. Shane Tubbs, Mohammadali M. Shoja, Marios Loukas, 2016-04-25 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

**ASE's Comprehensive Echocardiography** Steven A Goldstein, Itzhak Kronzon, Bijoy K Khandheria, Victor Mor-Avi, 2015-01-08 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 to assess cardiac chamber size and function valvular stenosis regurgitation cardiomyopathies coronary artery disease complications of myocardial infarction and much more all in a practical well illustrated brief yet comprehensive format extensively supported by multimedia material Stay up to date with hot topics in this rapidly evolving field interventional intraoperative echocardiography transesophageal echocardiography cardiac resynchronization therapy and more

**Comprehensive Approach to Adult Congenital Heart Disease** Anita Sadeghpour, Majid Kyavar, Azin

Alizadehasl,2014-07-31 In the United States there are approximately 1 million adults with congenital heart disease with 20 000 new patients reaching adolescence each year With early pediatric diagnosis improved medical surgical and post operative care it is now expected that 90% of patients born with congenital heart disease CHD will survive to adulthood Therefore the number of adult CHD ACHD patients will continue to rise In fact it is now estimated that for the first time in history there are more adults living with CHD than children The cardiologist who deals with these patients must therefore be familiar with congenital heart lesions in their uncomplicated state and know appropriate testing and follow up methods Also the inherent complexity of this type of cardiovascular disease really needs a comprehensive multimedia included practical and case base approach and assessment The aim of this book is to provide a case base approach to adult patients with congenital heart disease including all diagnostic and treatment methods focus on physical exam ECG chest X Ray heart sounds advanced echocardiography including of TTE TEE cardiac CT CMR catheterization interventional procedures surgery and also anesthesia highlights in these patients Grossman & Baim's Handbook of Cardiac Catheterization, Angiography, and Intervention Mauro Moscucci,Marc D. Feldman,2023-08-29 An easily accessible ready reference for the entire cardiac team Grossman Baim s Handbook of Cardiac Catheterization Angiography and Intervention is an essential resource in today s cardiac catheterization lab This practical handbook edited by Dr Mauro Moscucci with contributions from associate editor Marc D Feldman follows the bestselling text Grossman Baim s Cardiac Catheterization Angiography and Intervention providing fast convenient access to authoritative information in a portable handbook format *Braunwald's Heart Disease E-Book* Robert O. Bonow,Douglas L. Mann,Douglas P. Zipes,Peter Libby,2011-02-25 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 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](http://www.expertconsult.com) Stay on top of the latest advances in molecular imaging intravascular ultrasound cardiovascular regeneration and tissue engineering device therapy

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Butera, Alessandro Frigiola, 2023-11-21 The coronaries are the first branches of the ascending aorta They arise from their respective sinuses of Valsalva and gradually branch distally to the myocardium Abnormalities of the coronary arteries either congenital or acquired can be characterized as a lack of origin abnormal origin anomalous course lack of patency abnormal connections and or abnormal drainage of the coronary vessels Interruptions to or lack of flow can cause significant morbidity and mortality due to ischemia infarction and fistulous connections which can lead to cardiac failure endocarditis and ischemia Coronary artery anomalies are rare in general populations Although they can be benign and asymptomatic they can also be malignant due to their origin and course and can cause sudden cardiac death As such an understanding of how to analyze diagnose and treat them is vital This book presents the latest advances in congenital anomalies of coronary arteries It offers a comprehensive overview of the field including illustrative angiograms and diagrams that demonstrate all possible anomalies and clarify what is abnormal and also provides practical insights to guide practitioners in their everyday practice

**Diagnostic Methods in the Cardiac Catheterization Laboratory** Pedro A. Lemos, Paul Schoenhagen, Alexandra Lansky, 2009-12-18 The tools necessary for correctly identifying complex coronary lesions and plaques The data required to accurately diagnose rare disease progression and patterns With Diagnostic Methods in the Cardiac Catheterization Laboratory all of the essential diagnostic modalities you need in the lab are at your fingertips This new force in cardiology is

Illustrated Guide to Cardiovascular Disease Glenn N Levine, 2016-02-12 Illustrated Guide to Cardiovascular Disease is an extensive and highly visual guide encompassing the full spectrum of cardiovascular diseases along with cardiac anatomy and

physiology This book is divided into 58 chapters across seven sections Each section covers a different disease or group of heart diseases including coronary artery disease heart failure and cardiomyopathy valvular heart disease pericardial disease congenital heart disease cardiac arrhythmias peripheral vascular disease and a final section on miscellaneous cardiovascular diseases Each chapter features detailed discussion on common and uncommon conditions and their pathology with the latest therapies in cardiology and European and American guidelines highlighted throughout the book More than 1700 full colour images illustrations figures flow charts and tables enhance Illustrated Guide to Cardiovascular Disease an invaluable resource for all cardiologists Extensive illustrated guide to a vast range of cardiovascular diseases Seven sections covering specific diseases and groups of diseases 1700 images in full colour Edited by Glenn N Levine Director of the Michael E DeBakey Medical Centre in Houston Texas

*Diagnosis and Management of Adult Congenital Heart Disease E-Book* Michael A. Gatzoulis, Gary D. Webb, Piers E. F. Daubeney, 2017-02-02 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 Daubeney offers essential guidance on the anatomical 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 Daubeney 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

**Braunwald's Heart Disease - E-Book** Peter Libby, 2021-10-15 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 translational research and evidence based medicine Includes 76 new contributing authors and 14 new chapters that cover

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**Braunwald's Heart Disease E-Book** Douglas P. Zipes, 2018-01-09 Trusted by generations of cardiologists for the latest most reliable guidance in the field Braunwald's Heart Disease 11th Edition remains your 1 source of information on rapidly changing clinical science clinical and translational research and evidence based medicine This award winning text has been completely updated providing a superior multimedia reference for every aspect of this fast changing field including new material about almost every topic in cardiology A unique update program by Dr Braunwald creates a living textbook by featuring weekly Hot off the Press and periodic Late Breaking Clinical Trials including links to authors presentation slides More than a dozen new chapters cover Chronic Lung Disorders and Cardiovascular Disease Transcatheter Treatment of Congenital Heart Disease Approach to the Patient with Valvular Heart Disease Obesity and Cardiometabolic Disease Environmental Exposures and CVD Approach to the Patient with Cardiac Arrhythmias Cardio oncology Precision Medicine and more New information on clinical cardiovascular genetics MR PET MR device compatibility fibrosis fusion imaging OCT IVUS left atrial appendage exclusion approaches and other topics Many new videos that elucidate coronary peripheral valvular congenital heart diseases and other cardiovascular diseases Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

Cardiovascular Interventions in Clinical Practice Jürgen Haase, Hans-Joachim Schäfers, Horst Sievert, Ron Waksman, 2010-04-01 Until the publication of this exciting volume new treatment modalities in the rapidly growing field of interventional cardiology were described based on individual research findings Now a multidisciplinary team of international experts puts catheter based treatment techniques in context by exploring the pathobiology of specific diseases alongside a discussion of imaging tools and functional tests and a comparison to alternative treatment approaches provided by cardiovascular surgery This comprehensive overview of interventional cardiology represents a landmark in the



field     **Braunwald's Heart Disease E-Book** Douglas L. Mann,Douglas P. Zipes,Peter Libby,Robert O. Bonow,2014-07-30  
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other late complications that are often seen Helps cardiologists and cardiac surgeons understand what is likely to happen to patients with or without treatment and which forms of treatment currently in use provide the best outcomes to date

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