

CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

FUNCTION OF CIRCULATION

Delivers O₂ , nutrients, hormones and antibodies to organs, tissues and cells
Removes the end product of cellular metabolism

FUNCTION OF THE HEART

Pumps oxygenated blood into the arterial system to supply capillaries and tissue
Pumps oxygen poor blood from the venous system through the lungs to be reoxygenated.

ANATOMY OF THE HEART

Cone shaped organ located in the mediastinal space.
The pericardial sac encases the heart and protects it, lubricates and holds 5-20 ml of pericardial fluid. This has two layers.

- ✦ the parietal pericardium which is the outer membrane
- ✦ the visceral pericardium is the inner membrane attached to the heart.

CONSISTS OF 3 LAYERS

- ✦ Epicardium : outermost layer of the heart
- ✦ Myocardium: middle layer of the heart, the contracting muscle
- ✦ Endocardium: innermost layer of the heart, lines the inner chambers and the valves.

4 CHAMBERS

- ✦ Right atrium: carries deoxygenated blood from the body via superior and inferior vena cava.
- ✦ Right ventricle: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery
- ✦ Left atrium: carries oxygenated blood from the pulmonary veins
- ✦ Left ventricle: carries oxygenated blood from the left atrium and pumps it into the systemic circuit through the aorta.

4 VALVES

Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the atria.

- ✦ Tricuspid valve : on the right side of the heart
- ✦ Bicuspid valve: on the left side of the heart

Two semilunar valves that prevent blood from flowing back into the ventricles during relaxation

- ✦ Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- ✦ Aortic semilunar valve: between the ventricle and the aorta.

CORONARY ARTERIES

- ✦ Right main coronary artery: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- ✦ Left main coronary artery: consists of two main branches left anterior descending which supplies blood to the left ventricle and the ventricular septum and circumflex arteries which supply blood to the left atrium and the lateral/posterior aspects of the left ventricle.

BLOOD FLOW OF THE HEART

1. From the superior and inferior vena cava oxygen poor blood goes to the
2. Right atria through the tricuspid valve
3. Right ventricle to the pulmonary valve
4. To the pulmonary trunk and arteries into the lungs Co₂ is lost and O₂ is gained in the pulmonary capillaries
5. O₂ rich blood enters the pulmonary veins to the left atrium
6. Blood travels through the bicuspid valve and enters the left ventricle
7. Blood moves through the aortic valve and travels through the aorta to the systemic circuit



Sectional Anatomy of the Heart

ELECTRICAL CONDUCTION

- ✦ SA node: pacemaker of the heart and initiates contraction at 80- 100 BPM.
- ✦ AV : receives impulses from the SA node initiates and sustains impulses at 40-60 BPM
- ✦ Bundle of His: continuation of the AV node and branches into the the bundle branches which terminate in the purkinje fibers
- ✦ Purkinje fibers: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fail as pace makers. They can sustain at 20-40 BPM

Cardiovascular Guide

**Ana Abreu, Jean-Paul Schmid, Massimo
Piepoli**



Cardiovascular Guide:

Heart 411 Marc Gillinov, M.D., Steven Nissen, M.D., 2012-01-31 The definitive guide to heart health from two of America's most respected doctors at Cleveland Clinic the 1 hospital for heart health in America Are you one of the eighty two million Americans currently diagnosed with cardiovascular disease or one of the millions more who think they are healthy but are at risk Whether your goal is to get the best treatment or stay out of the cardiologist's office your heart's health depends upon accurate information and correct answers to key questions In *Heart 411* two renowned experts heart surgeon Marc Gillinov and cardiologist Steven Nissen tackle the questions their patients have raised over their decades of practice Can the stress of my job really lead to a heart attack How does exercise help my heart and what is the right amount and type of exercise What are the most important tests for my heart and when do I need them How do symptoms and treatments differ among men women and children Backed by decades of clinical experience and up to the minute research yet written in the accessible down to earth tone of your trusted family doctor *Heart 411* cuts through the confusion to give you the knowledge and tools you need to live a long and heart healthy life

American Medical Association Guide to Preventing and Treating Heart Disease American Medical Association, Martin S. Lipsky, Marla Mendelson, Stephen Havas, Michael Miller, MD, 2008-09-22 More Than 3 Million American Medical Association Books Sold American's most trusted medical authority shows you how to prevent and treat heart disease When you or someone you love is diagnosed with cardiovascular disease it's important to know the facts which can help save a life In the American Medical Association Guide to Preventing and Treating Heart Disease you will learn everything you need to know about heart disease to ensure a long full and active life Authoritative and up to date the American Medical Association Guide to Preventing and Treating Heart Disease explains the most common forms of heart and blood vessel disease and lays out practical strategies to get you on the road to better health The book also provides up to date information on women and their unique heart disease risks and symptoms as well as information on heart-healthy eating including the National Heart Lung and Blood Institute's DASH diet Even if heart disease runs in your family you can still lower your risk of developing it by following the simple guidelines found in this comprehensive resource For every 3 pounds you lose there is a corresponding drop of about 2mm Hg in your diastolic pressure and by bringing down your blood pressure to healthy levels your risk of stroke can be reduced by 35 to 50 percent If you have already had a heart attack or a stroke this book offers vital practical information on preventing another one Highlighting prevention lifestyle changes testing and treatments the American Medical Association Guide to Preventing and Treating Heart Disease provides you and your loved ones with the essential tools you need to reclaim a healthier life

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 ESC Handbook of Cardiovascular Rehabilitation Ana Abreu, Jean-Paul Schmid, Massimo Piepoli, 2020-09-02 This guide is directed at the multi disciplinary team dealing with cardiac rehabilitation It is a practical handbook for everyday professionals on what they should do following cardiac events and return to work It is adapted to the needs of cardiac rehabilitation centers Key publication from the European Association of Preventive Cardiology EAPC Companion handbook to The ESC Handbook of Preventive Cardiology Putting Prevention into Practice This handbook is directed at cardiologists in training and practice specialist cardiac nurses technicians exercise physiologists and other healthcare professionals involved in the multidisciplinary process of cardiac rehabilitation Practical user friendly handbook style presentation Covers the complete spectrum of rehabilitation care Key team members address key issues smoking diet and physical activity Focus on high risk patients family approach **The Cardiac Care Unit Survival Guide** Herzog, 2012 This book is geared toward cardiologists trainees and housestaff anyone who rotates or practices in the CCU who must grasp the subtleties when treating patients in a cardiac care unit It is organized in a way to help you understand the simplified pathophysiology of the disease the diagnosis modalities the initial critical care management in the CCU the clinical care in a step down unit and plan for discharge therapy Dr Herzog has developed unified pathways for the management of patients presenting with acute chest pain or its equivalent acute heart failure atrial fibrillation and flutter syncope cardiac arrest hypertension and hyperglycemia Algorithms and pathways for management are provided in each chapter for easy implementation in any health care system In addition because specialized units are frightening to the patients and their families there is a section in each chapter on what the patient and family need to know that encompasses a capsulated explanation of the condition and treatment management A companion website accompanies the text that includes fully searchable text and patient information *Clinical Guide to Cardiovascular Disease* Vincent E. Friedewald, 2017-02-06 *Pocket Guide to Cardiovascular Care* Susan B. Stillwell, Edith McCarter Randall, 1994 This guide offers practical thorough coverage of nursing care for patients with acute and critical cardiovascular problems The book provides information on assessing and evaluating cardiovascular conditions administering medications as well as on monitoring medical and surgical interventions 86 illus **Handbook of Inpatient Cardiology** Bryan J. Wells, Pablo A. Quintero, Geoffrey

Southmayd,2020-07-22 This book serves as a pocket sized resource to aid with the diagnosis and management of cardiovascular disease in the inpatient setting Containing up to date information from guidelines and clinical trials this book is the only handbook style reference on cardiac care designed specifically for the hospitalist The first section of the book covers cardiac pathology with an emphasis on evidence based and guideline based approaches to patient care Each chapter focuses on a specific cardiovascular disease state such as acute coronary syndrome atrial fibrillation pulmonary hypertension and aortic disease The second section examines the differential diagnoses and recommended workup for common cardiac chief complaints including chest pain palpitations syncope and dyspnea The third and final section discusses indications and interpretation of commonly used cardiac procedures and imaging modalities This book provides a concise review over a broad range of cardiovascular disease states in an accessible handbook style to aid with the care of these patients The Handbook of Inpatient Cardiology is an essential resource for physician hospitalists caring for cardiac patients on the medical ward in addition to cardiology physicians and trainees affiliate providers and students

Cardiovascular Disease Handbook and Resource Guide Grey House Publishing,2020-11 Combines valuable educational information for patients and their families The volume offers statistics as well as discussions about prevention treatment and outcomes It includes details on 32 types of cardiovascular disease plus information on a number of conditions that can cause or affect it including substance abuse and obesity

American Heart Association Complete Guide to Women's Heart Health American Heart Association,2009 Draws on American Heart Association guidelines to explain how women can minimize their chances for developing heart disease by controlling risk factors eating nutritiously and exercising

Clinical Cardiology: Current Practice Guidelines Demosthenes G. Katritsis,Bernard J. Gersh,A. John Camm,2016-07-21 Clinical Cardiology Current Practice Guidelines Updated Edition is an essential tool for the busy clinician offering succinct yet detailed access to the most recent trial and guideline data supporting practice and patient management in cardiology ESC and ACC AHA guidelines are continually updated and often overlap in their advice making it difficult for the cardiologist to obtain a clear picture of the right way to diagnose and treat disease according to the latest evidence base Written by leading authorities in the field this book together with its regularly updated online version provides a unique solution The authors have scrutinized all available guidelines and research from both ACC AHA and ESC on every clinical issue The result is a rigorous examination of the implications of published guidance illustrated by more than 600 easy to follow tables and 200 full colour images which reinforce key points and clarify difficult concepts 87 comprehensive chapters explore the definition epidemiology pathophysiology diagnosis and management of cardiac disease Two new chapters examine the univentricular heart and venous thrombembolism Each chapter encompasses the latest published research followed by discussions of possible presentations and investigations offering detailed insights for clinicians into best practice for diagnosis and treatment Providing at a glance access to the best guidance in cardiology this book offers a diagnosis and management toolkit which no

practising cardiologist can afford to be without **Guidelines for Cardiac Rehabilitation and Secondary Prevention Programs** American Association of Cardiovascular & Pulmonary Rehabilitation, 2004 This edition addresses the cost effectiveness of interventions that educate and motivate patients to assume personal responsibility for long term disease prevention

Handbook of Cardiovascular CT Matthew J. Budoff, Jerold S. Shinbane, 2008-09-05 This highly illustrated handbook is a primer for the practical performance and interpretation of cardiovascular computed tomography It is the first portable reference to cardiac CT techniques The manual serves as a companion to the textbook Cardiac CT Imaging Diagnosis of Cardiovascular Disease and provides a concise and practical text summary of each topic In addition there are tables algorithms protocols and key images for orientation to and familiarization with important disease processes This manual targets a reading audience who are in the training phase of performance and interpretation of cardiovascular CT and is designed as an easily accessible pocket reference

Cardiac Rehabilitation Ana Abreu, Jean-Paul Schmid, Massimo Piepoli, 2020-09-02 This guide is directed at the multi disciplinary team dealing with cardiac rehabilitation It is a practical handbook for everyday professionals on what they should do following cardiac events and return to work It is adapted to the needs of cardiac rehabilitation centers Key publication from the European Association of Preventive Cardiology EAPC Companion handbook to The ESC Handbook of Preventive Cardiology Putting Prevention into Practice This handbook is directed at cardiologists in training and practice specialist cardiac nurses technicians exercise physiologists and other healthcare professionals involved in the multidisciplinary process of cardiac rehabilitation Practical user friendly handbook style presentation Covers the complete spectrum of rehabilitation care Key team members address key issues smoking diet and physical activity Focus on high risk patients family approach

Cardiology Board Review and Self-Assessment: A Companion Guide to Hurst's the Heart Mark Eisenberg, Jonathan Afilalo, Jacqueline Joza, Ravi Karra, Patrick Lawler, 2018-08-22 GAIN A GREATER UNDERSTANDING OF CARDIOVASCULAR MEDICINE AND SHARPEN YOUR BOARD PREPARATION SKILLS WITH THE ONLY REVIEW BASED ON THE CONTENT OF HURST S THE HEART Cardiology Board Review and Self Assessment is an all inclusive study guide and learning tool written to complement the Fourteenth Edition of Hurst s the Heart the field s cornerstone text and the resource considered by many to be the pinnacle of cardiovascular knowledge Cardiology Board Review and Self Assessment contains more than 1 100 carefully selected questions and answers presented in multiple choice format Each of the 112 chapters of Hurst s the Heart is represented in this unique review with ten multiple choice questions Detailed answers are provided for each question including not only an explanation of why the correct answer is correct but also why the incorrect answers are incorrect HERE S WHY THIS IS THE ULTIMATE BOARD REVIEW AND CARDIOLOGY LEARNING TOOL Questions and answers correspond to appropriate sections of Hurst s the Heart and include valuable tables figures images and references The more than 1 100 Q A span the depth and breadth of the entire field of cardiovascular medicine High yield material is specifically selected for Board relevance Includes content based

on ACC AHA and ESC guidelines Cardiology Board Review and Self Assessment A Companion Guide to Hurst's the Heart is essential reading for anyone preparing to take the Subspecialty Examination in Cardiovascular Disease given by the Board of Internal Medicine as well as practicing cardiologists preparing for recertification It is also of value to medical students residents fellows practicing physicians and other healthcare professionals who wish to expand their knowledge of cardiovascular medicine

Introductory Guide to Cardiac Catheterization Arman T. Askari, Medhi H. Shishehbor, Adrian W. Messerli, Ronnier J. Aviles, 2010-09-20 The staff in every catheterization laboratory in the world participates in some form of hazing Although largely benign and expected this ritual can place even more stress on an already unsettled and insecure newcomer The first edition of this manual was spearheaded by cardiology fellows who remembered well what it was like to enter the cath lab for the first time Now several years later these hazingees have in many cases become the hazers but the additional experience and responsibility has allowed for a more comprehensive and updated manual Our goal is to produce a thoroughly practical and easily accessible manual for physicians physicians in training nurses cath lab x ray techs mid level providers and students Since we have been subjected to years of questions first from our mentors and now from our students we are acutely familiar with the most pertinent and necessary data for any student no matter the level of training The manual remains specifically designed with an easy to read format that includes highlighted pearls updated American College of Cardiology American Heart Association ACC AHA guidelines numerous visuals including carefully delineated schematics of standard coronary projections and special troubleshooting notes that provide potential solutions for frequently encountered problems Provided by publisher

Clinical Cardiology: Current Practice Guidelines Demosthenes G. Katritsis, Bernard J. Gersh, A. John Camm, 2016-09-15 Clinical Cardiology Current Practice Guidelines Updated Edition is an essential tool for the busy clinician offering succinct yet detailed access to the most recent trial and guideline data supporting practice and patient management in cardiology ESC and ACC AHA guidelines are continually updated and often overlap in their advice making it difficult for the cardiologist to obtain a clear picture of the right way to diagnose and treat disease according to the latest evidence base Written by leading authorities in the field this book together with its regularly updated online version provides a unique solution The authors have scrutinized all available guidelines and research from both ACC AHA and ESC on every clinical issue The result is a rigorous examination of the implications of published guidance illustrated by more than 600 easy to follow tables and 200 full colour images which reinforce key points and clarify difficult concepts 87 comprehensive chapters explore the definition epidemiology pathophysiology diagnosis and management of cardiac disease Two new chapters examine the univentricular heart and venous thromboembolism Each chapter encompasses the latest published research followed by discussions of possible presentations and investigations offering detailed insights for clinicians into best practice for diagnosis and treatment Providing at a glance access to the best guidance in cardiology this book offers a diagnosis and management toolkit which no practising cardiologist can afford to be without

Cardiology in Family

Practice Steve Hollenberg, 2007-11-06 A concise summary of the most important medical and scientific topics concerning cardiovascular medicine in the primary care environment Writing in an easy to read format background diagnosis and disease management and emphasizing practical techniques of evaluation and treatment the authors explain the basic mechanisms underlying cardiovascular disease states and the treatment strategies that arise from them Topics range from acute coronary syndromes arrhythmias and hyperlipidemia to hypertension pericardial diseases valvular disease and stable angina Cardiology in Family Practice A Practical Guide offers a clear understanding of today's standard approaches to cardiovascular illnesses and a highly valuable resource when specific questions arise during the care of patients A special PDA version of Cardiology in Family Practice A Family Guide is also available **Heart Teams for Treatment of**

Cardiovascular Disease Thierry Mesana, 2019-07-11 This book provides a comprehensive framework for developing heart teams to manage a variety of cardiovascular diseases Management of cardiovascular diseases has changed dramatically in recent years due to developments in evidence based practices and treatments as well as the introduction of new devices The sequential method of referring patients from doctor to doctor is becoming an antiquated model The future of cardiac care lies in developing multidisciplinary Heart Teams to provide patient focused treatment for complex cardiovascular problems This volume examines the history and evolution of cardiovascular care and technology and explains why the implementation of heart teams is absolutely necessary to the future of cardiac care It analyzes the role of heart teams for heart failure complex coronary revascularization mitral valve disease cardiac imaging aortic valve disease cardiac arrhythmias and women's heart health Finally the book explores how heart teams work with hospital administration and the broader healthcare industry Heart Teams for Treatment of Cardiovascular Disease A Guide for Advancing Patient Centered Cardiac Care is an essential resource for physicians and related professionals residents fellows and graduate students in cardiology cardiac surgery critical care medicine and radiology **The Guide to Cardiology** Robert A. Kloner, 1995

Cardiovascular Guide Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Cardiovascular Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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