

# CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

## FUNCTION OF CIRCULATION

Delivers O<sub>2</sub> , 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 Co<sub>2</sub> is lost and O<sub>2</sub> is gained in the pulmonary capillaries
5. O<sub>2</sub> 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

# Cardiologist Study Guide

**Arman T. Askari, Medhi H.  
Shishehbor, Adrian W.  
Messerli, Ronnier J. Aviles**

## **Cardiologist Study Guide:**

*The Complete Guide to ECGs* James H. O'Keefe (Jr.), Stephen C. Hammill, Mark S. Freed, 2019-11-27 The Complete Guide to ECGs is ideal for physicians physicians in training and other medical professionals and is the perfect study guide for the American Board of Internal Medicine ABIM Cardiovascular Disease or Internal Medicine Board Exams [Pharmacotherapy Principles and Practice Study Guide 3/E](#) Michael D. Katz, Kathryn R. Matthias, Marie A. Chisholm-Burns, 2013-06-22 More than 100 cases teach you how to apply pharmacotherapeutic concepts to real world clinical situations Pharmacotherapy Principles and Practice Study Guide Third Edition includes more than 100 patient cases that correspond to chapters in the third edition of Pharmacotherapy Principles and Practice These cases are presented in realistic fashion using terms and abbreviations that would normally be found in a patient's medical record Patients in these cases have drug therapy problems requiring identification and management For each case you will be asked to develop a Patient Database Drug Therapy Problem Worksheet and Pharmacotherapy Care Plan using the forms provided With Pharmacotherapy Principles and Practice Study Guide you will learn how to navigate through the process of applying your knowledge of pharmacotherapy to specific patient cases by organizing patient data to logically assess a patient's medication issues and formulate a sound pharmacotherapy care plan EACH CASE INCLUDES Learning Objectives Patient Presentation Targeted Questions followed by hints that refer you to pages in Pharmacotherapy Principles and Practice Third Edition where you can find the information necessary to answer the question Follow Up Global Perspective which highlights an issue related to the case that is important to countries outside of North America or involves selected ethnic groups or races Case Summary Student Workup where you are asked to review the patient case for missing information and to complete the various patient forms *MGH Cardiology Board Review* Hanna K. Gaggin, James L. Januzzi Jr., 2020-11-11 This comprehensively revised new edition prepares the reader for the cardiology board examination as well as provide a concise review of the essentials of general cardiology and the less common but clinically relevant topics in a dynamic and time efficient manner augmenting existing learning It uses board style questions and answers at the end of each topic enabling readers to test their learning and commit key concepts to long term memory Instructive figures and tables are used to consolidate teaching points This book also contains practical tips from recent board exam takers and other resources in order to make best use of the reader's limited time In the MGH Cardiology Board Review the Editors have compiled the expertise of over 60 experienced authors in a succinct volume applying methods thoroughly tested in Board Review In addition two very important sections on ECGs and images are included contents of which are derived from the board examination answer keys the very ones that readers are expected to know Plans on how to best approach board examination preparation and what additional resources to go to are provided In short this book has all the strengths to ensure your success on the boards exam **The Cleveland Clinic Cardiology Board Review** Brian P. Griffin, Samir R. Kapadia, Venu Menon, 2021-11-01 Providing a comprehensive state of

the art review of every area of contemporary cardiovascular medicine The Cleveland Clinic Cardiology Review is an excellent tool for learning and reviewing key concepts in major areas of cardiology The Third Edition contains fully revised content review questions used on the board exam A new easy to follow chapter template facilitates quick review and retention of the material

**Cardiology Board Review** Ramdas G. Pai, Padmini Varadarajan, 2023-03-10 Multiple choice question and answer book for cardiologists at all levels now updated to include 100 new questions covering additional topics Cardiology Board Review Second Edition is a multiple choice question and answer study aid that is written for the primary purpose of helping candidates prepare for the American Board of Internal Medicine ABIM subspecialty certification The questions address all areas of cardiology some of which include physical examination ECG section with high resolution images non invasive and invasive imaging myocardial diseases and more Each of the 1 400 questions is followed by four answers to choose from and the discussions address not only the rationale behind picking the right choice but also fills in information around the topic so that important key concepts are clearly laid out This helps candidates to prepare for the test while also developing a clear understanding of various aspects of cardiology including diagnosis and management Written by two highly experienced authors in the field of healthcare Cardiology Board Review Second Edition covers topics such as History and physical examinations electrocardiography chest x rays in cardiology stress testing and risk stratification of asymptomatic subjects and echocardiography Cardiac magnetic resonance imaging cardiac computed tomography cardiac catheterization acute coronary syndromes and chronic coronary artery disease Heart failure transplant left ventricular assist devices pulmonary hypertension cardiomyopathies hypertension and diabetes mellitus Lipids valvular heart disease adult congenital heart disease pericardial diseases aortic diseases and cardiac arrhythmias Pacemakers and defibrillators cardiac masses systemic disorders affecting the heart and heart disease and pregnancy Providing comprehensive coverage of all relevant subjects and offering the easy to understand why behind the answer to each question this second edition of Cardiology Board Review is an essential study resource for fellows in training practicing cardiologists and those preparing for ABIM subspecialty board in cardiology

**Introductory Guide to Cardiac Catheterization** Arman T. Askari, Medhi H. Shishehbor, Adrian W. Messerli, Ronnier J. Aviles, 2012-05-15 Updated for its Second Edition Introductory Guide to Cardiac Catheterization is an easy to follow how to guide to diagnostic and therapeutic cardiac catheterization This pocket sized concise manual presents practical pointers tips ACC AHA guidelines and highlighted clinical pearls and includes troubleshooting sections that provide solutions to frequently encountered problems Numerous illustrations demonstrate the complex procedures now being performed via the catheter This edition has a section on complications in each chapter a new chapter on peripheral angiography and a new question and answer review chapter Other highlights include new safety precautions and updates on novel closure devices

**Cardiology Study Guide : a Self-directed Learning Package** Budgell, Lynn, St. Joseph's Hospital (Chatham, Ont.), 1987 Cardiology Study Guide: Concise Information That Every Med

Student, Physician, NP, and PA Should Know J. T. Thomas, 2015-04-11 Just the facts are included in this book This is the perfect text if you are looking for a quick review of the information you need to know about medicine This rapid access information won't waste your time This Internal Medicine Study Guide has distilled the key details down to the concise facts that you will understand and remember This Cardiology Study Guide is an ideal resource for medical students and anyone who wants to understand more about internal medicine This book quickly reviews the information about the most common cardiology questions and answers Did you know the exam findings of left heart failure include S3 gallop and an S4 gallop The Valsalva maneuver will increase the murmur of obstructive cardiomyopathy Mitral valve prolapse and hypertrophic obstructive cardiomyopathy are two cardiac murmurs increase with the Valsalva maneuver The Cardiology Study Guide will present this information and the other key details about Cardiology in a way that you will find useful for patient care clinical rotations and board review Buy this book now if you want this quick and concise information about Cardiology **It's Always the Heart Bible Study Guide** Arthur E. Constantine MD, 2015-09-11 This is an introspective ten week companion Bible study guide that complements the book *It's Always the Heart* written by cardiologist Arthur E Constantine MD It is intended to engage you and lead you on a spiritual journey with thought provoking questions about the issues of the heart that affect us all It is designed to identify areas of weakness where the heart needs changing and stimulate personal reflection enabling you to find answers that allow the heart to evolve into a healthy spiritual and physical state to live the life God intended Included in the study guide are insightful questions Bible references and meditation points These are intended to inspire you and the study group to a deeper exploration of the binding of the physical and spiritual heart *The Pacemaker and Valve Identification Guide* Dryden Phelps Morse, Robert M. Steiner, 1978 *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

**Pediatric Practice Cardiology** Marie M. Gleason, Robert E. Shaddy, Jack Rychik, 2012-06-01 Hands on guidance for managing pediatric patients with congenital and acquired heart disease FULL COLOR ILLUSTRATIONS Part of the Pediatric Practice series Pediatric Practice Cardiology is filled with practical clinically relevant guidance for the diagnosis and treatment of cardiac conditions in children The care of the patient forms the core of this text which provides perspectives on epidemiology pathophysiology and diagnosis that every pediatrician cardiologist family physician and pediatric nurse needs to know Pediatric Practice Cardiology includes concise yet detailed overviews of pediatric cardiac conditions along with proven diagnostic and management strategies you can incorporate into your practice immediately It familiarizes primary care providers with the tools used in the care of pediatric cardiology patients and explains the different types of congenital heart defects Additional coverage includes the risk factors for acquired adult heart disease and the different forms of inflammatory heart disease Features of the Pediatric Practice Series The Pediatric Practice series simplifies the care of pediatric patients by delivering Tips that tell you what you must know and what you must do at every stage of care Diagnostic and treatment algorithms Signs Symptoms and Differential Diagnosis boxes When to Refer boxes which examine all the relevant clinical considerations Diagnostic Tests with a realistic emphasis on the right tests to order Medical Treatment coverage that includes drugs dosages and administration in an easy to read tabular format Convenient icons and a consistent chapter design Numerous clinical color photos and didactic diagrams

**Brunner & Suddarth's Textbook of Medical-surgical Nursing** Suzanne C. O'Connell Smeltzer, Brenda G. Bare, Janice L. Hinkle, Kerry H. Cheever, 2010 Preparing students for successful NCLEX results and strong futures as nurses in today's world Now in its 12th edition Brunner and Suddarth's Textbook of Medical Surgical Nursing is designed to assist nurses in preparing for their roles and responsibilities in the medical surgical setting and for success on the NCLEX In the latest edition the resource suite is complete with a robust set of premium and included ancillaries such as simulation support adaptive testing and a variety of digital resources helping prepare today's students for success This leading textbook focuses on physiological pathophysiological and psychosocial concepts as they relate to nursing care Brunner is known for its strong Nursing Process focus and its readability This edition retains these strengths and incorporates enhanced visual appeal and better portability for students Online Tutoring powered by Smarthinking Free online tutoring powered by Smarthinking gives students access to expert nursing and allied health science educators whose mission like yours is to achieve success Students can access live tutoring support critiques of written work and other valuable tools

**Cardiology: Smart Study Guide** Saif

ul Islam, MD.,R.Ph., BCPS,2025-04-30 Comprehensive yet Concise Covers the most up to date clinical information in cardiology including pharmacology pharmaceutics dosing and practical knowledge High Yield practical Designed for use in clinical settings presenting information in a easy to remember format Tailored for students residents Ideal for medical pharmacy and nursing students as well as residents seeking a quick and effective resources Beyond Standard Textbooks Include valuable clinical insights and practice pearls not commonly found in traditional medical textbooks Active Learning Approach Features chapters based questions and answers to reinforce knowledge and deepen understanding Visual Learning Aids Provides essential diagrams and references to online image libraries for enhanced comprehension *Learning from Medical Errors* Anh Vu T. Nguyen,Dung A. Nguyen,2005 Dave Kick Ass decides to start the world s first superhero team with Mindy Hit Girl Unfortunately Mindy is busted for sneaking out as Hit Girl and she s forced to retire Dave must join forces with Justice Forever run by a born again ex mobster named Colonel Stars and Stripes Just as they start to make a real difference on the streets the world s first super villain The Mother F% r assembles his own evil league and puts a plan in motion for revenge against Kick Ass and Hit Girl *Subject Guide to Books in Print* ,1971 **The Complete Guide to ECGs** James H. O'Keefe Jr.,Stephen C. Hammill,Mark S. Freed,2016-08-26 The Complete Guide to ECGs has been developed as a unique and practical means for physicians physicians in training and other medical professionals to improve their ECG interpretation skills The highly interactive format and comprehensive scope of information are also ideally suited for physicians preparing for the American Board of Internal Medicine ABIM Cardiovascular Disease or Internal Medicine Board Exams the American College of Cardiology ECG proficiency test and other exams requiring ECG interpretation The Complete Guide to ECGs is a superb addition to the library of every intern resident and fellow and a uniquely practical and comprehensive study guide for physicians interested in improving their interpretation of ECGs and preparing for board examinations **Cleveland Clinic Cardiology Board Review** Brian P Griffin, MD, Facc,Curtis M. Rimmerman,Eric J. Topol,2015-04-24 The Cleveland Clinic Cardiology Board Review offers thorough preparation for board certification and recertification exams in cardiology It is written by distinguished clinicians from the Cleveland Clinic Foundation s Department of Cardiovascular Medicine and based on the Cleveland Clinic Foundation s popular annual Intensive Review of Cardiology course In 62 chapters the book provides a comprehensive state of the art review of every area of contemporary cardiovascular medicine Emphasis is on board relevant clinical material and accurate real world clinical decision making More than 400 illustrations and numerous tables facilitate quick review Board format questions with answers and explanations appear at the end of each section *The Cleveland Clinic Cardiology Board Review* , **Bowker's Medical Books in Print** ,1975

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