

# 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

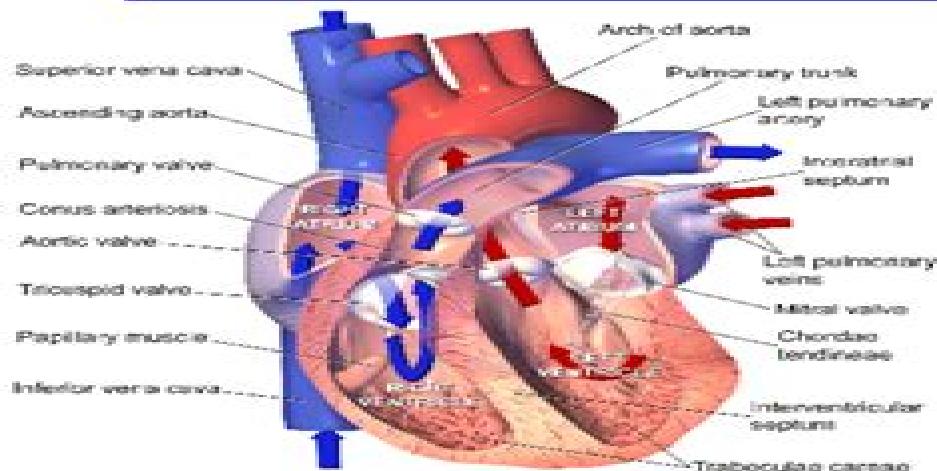
- Pulmonary semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

## 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

- From the superior and inferior vena cava oxygen poor blood goes to the right atrium through the tricuspid valve.
- Right atrium to the right ventricle
- Right ventricle to the pulmonary valve
- 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.
- O<sub>2</sub> rich blood enters the pulmonary veins to the left atrium.
- Blood travels through the bicuspid valve and enters the left ventricle.
- 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 60- 100 BPM.
- AV node: receives impulses from the SA node, initiates and conducts impulses at 40-60 BPM.
- Bundle of His: continuation of the AV node and branches into the two 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.

# Cardiology Study Guide

**Ramdas G. Pai,Padmini Varadarajan**

## **Cardiology Study Guide:**

**Nuclear Cardiology Study Guide** Andrzej Moniuszko,B. Adrian Kesala,2013-10-19 This book presents a comprehensive review of nuclear cardiology principles and concepts necessary to pass the Nuclear Cardiology Technology Specialty Examination The practice questions are similar in format and content to those found on the Nuclear Medicine Technology Certification Board NMTCB and American Registry of Radiological Technologists ARRT examinations allowing test takers to maximize their chances of success The book is organized by test sections of increasing difficulty with over 600 multiple choice questions covering all areas of nuclear cardiology including radionuclides instrumentation radiation safety patient care and diagnostic and therapeutic procedures Detailed answers and explanations to the practice questions follow It also includes helpful test taking tips Supplementary appendices include commonly used abbreviations and symbols in nuclear medicine glossary of cardiology terms and useful websites Nuclear Cardiology Study Guide is a valuable reference for nuclear medicine technologists nuclear medicine physicians and all other imaging professionals in need of a concise review of nuclear cardiology

**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 HEARTCardiology 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 guidelinesCardiology 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

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

*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 [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 **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

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**Cardiology Board Review** Brian P. Griffin,Samir R. Kapadia,Curtis M. Rimmerman,2012-10-22 The Cleveland Clinic Cardiology Board Review 2nd Edition continues to offer 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 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 500 illustrations and numerous tables facilitate quick review Board format questions with answers and explanations appear at the end of each chapter Plus with this edition you have access to an online companion website with fully searchable text and a question bank for access to the content anytime anywhere **Specialty Certified Medical Assistant-Cardiology** Certitrek Publishing,2015-08-01 This study guide and practice exam will provide an overview of the clinical and practical areas which will be covered in the Specialty Certified Medical Assistant Cardiology certification exam The study guide will include a review of 1 Medical terminology abbreviations Practice exam 75 questions and answer key

*Nuclear Cardiology Technology Study Guide (Voice)* Ann Marie Alessi,2010 *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. *The Complete Study Guide to Learning the Electrocardiogram* Douglas Martin, Douglas Martin, Msn, Rn, 2007-02-26 5 00 Download 12 50 Printed book 100pages

Written by healthcare professionals in an easy to read and understand format. The guide will teach you the basics of cardiac A P EKG paper measurements, waveform components and how it applies to the electrocardiogram. Further this guide covers EKG rhythms from normal sinus rhythm to lethal cardiac arrhythmias. To test your knowledge and aid you in real life interpretation of EKG rhythms a workbook and answer key is also provided. The workbook contains over 50 major EKG rhythms and arrhythmias along with a helpful answer key so you can check your work. Also provided is a handy pocket guide that contains all EKG rhythms at a glance along with normal and abnormal EKG rhythm measurements. *The Cleveland Clinic Cardiology Board Review* Brian P. Griffin, Curtis M. Rimmerman, Eric J. Topol, 2006-11-01 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. **Drug Therapy in Nursing** Diane S. Aschenbrenner, Samantha J. Venable, 2009 This text presents a totally nursing focused framework for teaching and learning nursing pharmacology and places the patient at the center of all drug administration decisions and considerations. The book presents core drug knowledge using prototypes of different drug classes and emphasizes core patient variables that influence the patient's response to therapy. This thoroughly updated Third Edition

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*Questions: An Interventional Cardiology Board Review* Debabrata Mukherjee, David Moliterno, Leslie Cho, Richard Lange, Saurav Chatterjee, 2018-06-25 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 With two new editors and hundreds of new questions this comprehensive new edition of 1133 Questions An Interventional Cardiology Board Review continues to serve as the perfect study aid for anyone taking the American Board of Internal Medicine ABIM interventional cardiology board exam either for the first time or to recertify You'll have everything you need detailed answers and explanations for each question and plenty of relevant images to pass the exam and improve your ability to provide effective and evidence based patient care **Pediatric Cardiology Board Review** Benjamin W. Eidem, Bryan C. Cannon, Anthony C. Chang, Jonathan N. Johnson, Paul Kantor, Robert E. Shadley, Frank Cetta, 2022-05-19 Designed to effectively prepare pediatric cardiology fellows and practitioners for board certification and recertification Pediatric Cardiology Board Review Third Edition provides easy access to more than 1 200 board style questions Based on the popular Mayo Clinic Pediatric Cardiology Review course and edited by Drs Benjamin W Eidem Bryan C Cannon Jonathan N Johnson Anthony C Chang Frank Cetta Robert E Shadley and Paul Kantor it covers all the latest advances in the diagnosis and management of congenital heart

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## **Cardiology Study Guide** Book Review: Unveiling the Magic of Language

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