

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

- From the superior and inferior vena cava oxygen poor blood goes to the
- Right atria through the tricuspid valve
- Right ventricle to the pulmonary valve
- To the pulmonary trunk and arteries into the lungs Co₂ is lost and O₂ is gained in the pulmonary capillaries
- O₂ 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



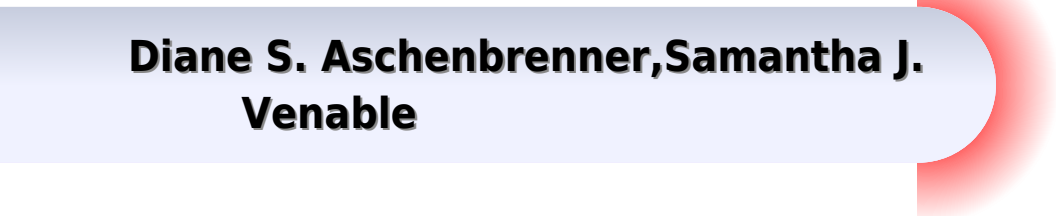
Sectional Anatomy of the Heart

ELECTRICAL CONDUCTION

- SA node: pacemaker of the heart and initiates contraction at 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

Cardiology Study Guide

**Diane S. Aschenbrenner, Samantha J.
Venable**



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

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Cardiovascular Disease or Internal Medicine Board Exams *Cardiology Study Guide : a Self-directed Learning Package* Budgell, Lynn, St. Joseph's Hospital (Chatham, Ont.), 1987

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classes and emphasizes core patient variables that influence the patient's response to therapy. This thoroughly updated Third Edition covers newly approved drugs, has separate chapters on drugs affecting fungal and viral infections, and includes more pathophysiology information. FDA Black Box warnings have been added to the discussion of each prototype when applicable, and safety alerts have been added to emphasize prevention of common medication errors. A companion Website offers student and instructor ancillaries including NCLEX style questions, pathophysiology animations, medication administration videos, and dosage calculation quizzes. [National Library of Medicine Audiovisuals Catalog](#) National Library of Medicine (U.S.), **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, pharmaceuticals, dosing, and practical knowledge. High Yield practical. Designed for use in clinical settings, presenting information in an easy to remember format. Tailored for students, residents. Ideal for medical, pharmacy, and nursing students, as well as residents seeking a quick and effective resource. 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. *The Echocardiography Companion* Tarak Rambhatla, Gila Perk, 2020-07-31 This is a comprehensive yet easy to read study guide for those preparing for the echocardiography board examinations, which brings all of the critical resources together into one convenient and portable resource. Echocardiography is an integral part of routine cardiology practice, and this book represents a quick yet thorough reference that can be easily consulted to help practicing clinicians deliver high quality care to their patients. *The Echocardiography Companion Study Guide and Review* includes a comprehensive, educationally focused review of the technique, its clinical uses, applications, and utilization in all cardiac conditions. The practical and quick reference format allows it to serve as a reference book and as a helpful companion to students, on which notes can be taken while studying from other resources such as board review videos. *Nuclear Cardiology Technology Study Guide (Voice)* Ann Marie Alessi, 2010 **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

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Textbook study guide of cardiology Louis E. Grenzer, 1974

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Table of Contents Cardiology Study Guide

1. Understanding the eBook Cardiology Study Guide
 - The Rise of Digital Reading Cardiology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Cardiology Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cardiology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cardiology Study Guide
 - Personalized Recommendations
 - Cardiology Study Guide User Reviews and Ratings
 - Cardiology Study Guide and Bestseller Lists
5. Accessing Cardiology Study Guide Free and Paid eBooks
 - Cardiology Study Guide Public Domain eBooks
 - Cardiology Study Guide eBook Subscription Services
 - Cardiology Study Guide Budget-Friendly Options
6. Navigating Cardiology Study Guide eBook Formats

- ePub, PDF, MOBI, and More
- Cardiology Study Guide Compatibility with Devices
- Cardiology Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cardiology Study Guide
 - Highlighting and Note-Taking Cardiology Study Guide
 - Interactive Elements Cardiology Study Guide
- 8. Staying Engaged with Cardiology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cardiology Study Guide
- 9. Balancing eBooks and Physical Books Cardiology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cardiology Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cardiology Study Guide
 - Setting Reading Goals Cardiology Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cardiology Study Guide
 - Fact-Checking eBook Content of Cardiology Study Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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