

# 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

- 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 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 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

# Cardiac Physiology Study Guide

**E Staff**



## **Cardiac Physiology Study Guide:**

*Pediatric Critical Care Study Guide* Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10  
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Have you ever wondered what it takes to excel in the high-stakes world of emergency nursing? In a field where every second counts and decisions can make the difference between life and

death being equipped with the right knowledge and skills is crucial This comprehensive guide is designed to help you master the complexities of emergency care and achieve excellence in the Certified Emergency Nurse CEN exam In these pages you ll find an in depth exploration of the core concepts and practical knowledge necessary for success in the CEN exam From the intricate details of cardiovascular emergencies such as managing acute coronary syndrome and heart failure to the essential techniques for handling respiratory crises like pulmonary embolism and pneumothorax this guide covers it all You will delve into neurological emergencies gaining a thorough understanding of stroke seizures and traumatic brain injuries and learn to effectively manage gastrointestinal emergencies including abdominal pain and GI bleeding The guide also addresses renal and genitourinary emergencies such as acute kidney injury and urinary tract infections and provides crucial insights into obstetric and gynecologic emergencies including pregnancy related complications and postpartum hemorrhage Pediatric emergencies are explored with a focus on the unique considerations required when treating children while trauma management is covered comprehensively including initial assessments shock resuscitation and handling various types of trauma Toxicology and environmental emergencies are examined offering strategies for managing overdoses poisonings and environmental threats like hypothermia and heatstroke Additionally psychiatric and behavioral emergencies are thoroughly addressed including the assessment and management of conditions such as acute psychosis delirium and substance abuse disorders Each chapter is meticulously crafted to provide not only theoretical knowledge but also practical insights and strategies to apply in real world scenarios Practice questions with detailed explanations are included to help you test your knowledge and build confidence The guide s focus on both content mastery and test taking strategies ensures you are well prepared for the CEN exam and the challenges of emergency nursing Whether you re preparing for the CEN exam or looking to enhance your skills in emergency care this guide serves as an invaluable resource for achieving your goals and advancing your career in emergency nursing Your journey toward certification and excellence in emergency care starts here

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## **Table of Contents Cardiac Physiology Study Guide**

1. Understanding the eBook Cardiac Physiology Study Guide
  - The Rise of Digital Reading Cardiac Physiology Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Cardiac Physiology 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 Cardiac Physiology Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Cardiac Physiology Study Guide
  - Personalized Recommendations
  - Cardiac Physiology Study Guide User Reviews and Ratings
  - Cardiac Physiology Study Guide and Bestseller Lists



5. Accessing Cardiac Physiology Study Guide Free and Paid eBooks
  - Cardiac Physiology Study Guide Public Domain eBooks
  - Cardiac Physiology Study Guide eBook Subscription Services
  - Cardiac Physiology Study Guide Budget-Friendly Options
6. Navigating Cardiac Physiology Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Cardiac Physiology Study Guide Compatibility with Devices
  - Cardiac Physiology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Cardiac Physiology Study Guide
  - Highlighting and Note-Taking Cardiac Physiology Study Guide
  - Interactive Elements Cardiac Physiology Study Guide
8. Staying Engaged with Cardiac Physiology Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Cardiac Physiology Study Guide
9. Balancing eBooks and Physical Books Cardiac Physiology Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Cardiac Physiology Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Cardiac Physiology Study Guide
  - Setting Reading Goals Cardiac Physiology Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Cardiac Physiology Study Guide
  - Fact-Checking eBook Content of Cardiac Physiology 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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