

# 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

**Joyce Young Johnson, Rosdahl, Phyllis  
Prather Hicks**



## **Cardiac Physiology Study Guide:**

Pediatric Critical Care Study Guide Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10

This is the first comprehensive study guide covering all aspects of pediatric critical care medicine. It fills a void that exists in learning resources currently available to pediatric critical care practitioners. The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide. There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner.

**CEN Study Guide** Jonathan L. Reese, 2024-08-23

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 will 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 are 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.

**Critical Care Study Guide** Gerard J. Criner, Gilbert E. D'Alonzo, 2013-03-09

Critical care medicine is a dynamic and

exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions Because this knowledge base crosses many different disciplines introduction to caring for the intensive care patient while exciting may also be intimidating This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful The book contains three components 1 description of the procedural tasks commonly performed for the critically ill patient 2 explanation of the most common pathophysiologic states encountered and 3 description of specific disease entities with details of their differential diagnosis diagnostic strategy and therapeutic plan This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy As an additional study aid margin notes highlight important teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader

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Study Guide to Accompany Clinical Drug Therapy Anne Collins Abrams, Gail Ropelewski-Ryan, 2000-10 This guide has been developed to complement Clinical Drug Therapy sixth edition It provides learning opportunities to reinforce content that students read in the text and promotes their ability to apply this information in clinical settings The study guide prepares students for NCLEX test taking developing critical thinking skills and client teaching

**National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.), **Study Guide for Introduction to Human Anatomy and Physiology** Eldra Pearl Solomon, Mical K. Solomon, Karla Solomon, Karla Edelson-Solomon, 2009 Master content from the textbook with this helpful study tool Designed to accompany Solomon's Introduction to Human Anatomy and Physiology 3rd Edition this workbook will assist students in understanding and applying material from each chapter in the text

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the key principles of cardiovascular function apply to common physiological and pathological challenges than this engagingly written guide Features Clarifies the details of physiologic mechanisms and their role in pathologic states Links cardiovascular physiology to diagnosis and treatment Summarizes key concepts at the end of each chapter Highlights must know information with chapter objectives Provides the perfect quick review for the USMLE Step 1 Reinforces learning with study questions at the end of each chapter Keeps you up to date on the latest research and developments in this ever changing field The content you need to gain a thorough understanding of this essential subject Overview of the Cardiovascular System Characteristics of Cardiac Muscle Cells The Heart Pump Measurement of Cardiac Function Cardiac Abnormalities The Peripheral Vascular System Vascular Control Central Venous Pressure An Indicator of Circulatory Hemodynamics Regulation of Arterial Pressure Cardiovascular Response to Physiological Stresses Cardiovascular Function in Pathological Situations      *Library of Congress Catalogs* Library of Congress, 1974

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many employers fire poor performers hastily while others wait too long before taking strong action one reason for unnecessary delays in firing bad performers is the employer fears being

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lets look at exactly what poor performance is and the remedy for it poor performance does not look at the behavior of the employee at work problems of behavior are addressed under

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the main issue that lands employers at the ccma is that they mistakenly believe that hiring an employee under a probationary contract or having a probationary clause in the employment

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apr 22 2022 if the business retrenches them poor work performance is a form of incapacity which is the second option in other words when an employee fails to perform their duties and

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how to manage the employment relationship where an employee is trying but appears to be unable to perform work to the

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inform the employee that his her work performance does not meet the required standards discuss possible causes of the poor performance and rectify any workplace based causes

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mar 2 2015 one key reason for unnecessary delays in firing bad performers is the employer s fear of being taken to the ccma and being forced to reinstate the employee and or to pay big

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a disciplinary hearing is basically an enquiry held by the employer to determine whether an employee is guilty of an offence or not a poor work performance hearing is similar but the

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performance it is suggested that employers exploinform the employee that his her work performance does not meet the required standards such as discuss possible causes of the

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mar 25 2022 the required standard of work performance in the workplace the employee s duties why the employee is not meeting these standards according to the employer the

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poor work performance falls under the broad heading of incapacity poor work performance or failure by the employee to reach and maintain the employer s work performance standards