

# 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

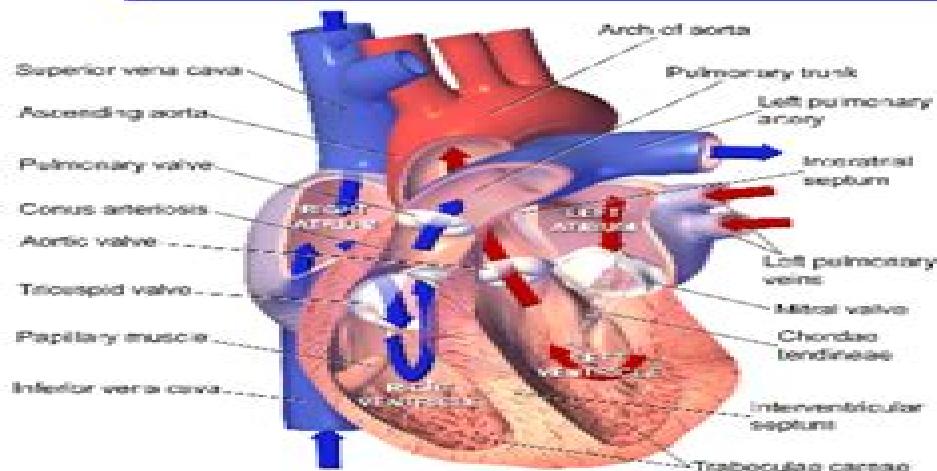
- Pulmonary semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

## 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 transmits 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.

# 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 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.

*CMSRN Study Guide* Tyler L Jackson, 2024-09-30 Are you ready to elevate your nursing career and enhance your impact on patient care? The journey to becoming a Certified Medical Surgical Registered Nurse (CMSRN) is both challenging and rewarding, and this comprehensive guide is your key to unlocking that potential. You will find an in-depth exploration of the CMSRN exam designed to prepare you for success in this vital nursing specialty. Covering essential topics such as cardiovascular, respiratory, gastrointestinal, renal, neurological, musculoskeletal, hematological, integumentary, and oncological systems, this resource provides you with a solid foundation of knowledge necessary to excel in medical surgical nursing. Each chapter meticulously breaks down complex concepts, making them accessible and easy to understand while reinforcing the critical thinking skills required in the field. Beyond the theoretical knowledge, this guide emphasizes practical applications, including patient management, nursing interventions, and pharmacology. With a focus on evidence-based practices, you'll learn how to assess and care for diverse patient populations effectively, all while navigating the nuances of contemporary healthcare settings. Detailed explanations and real-life case studies will deepen your understanding of common conditions and prepare you to address the unique challenges you will face as a CMSRN. The book offers valuable insights into effective study strategies and test-taking tips tailored specifically for the CMSRN exam. You'll discover how to approach multiple-choice questions with confidence, enhancing your test-taking skills to maximize your chances of success. The included practice questions and answers reflect the real exam format, allowing you to evaluate your knowledge and identify areas for improvement. This book addresses the psychosocial aspects of nursing, highlighting the importance of mental health awareness and cultural competence in patient care. With dedicated chapters on emergency situations, professional issues, and continuous learning, you'll be well equipped to advocate for your patients and collaborate effectively within interdisciplinary teams. Whether you're a seasoned nurse seeking certification or a nursing student preparing for a fulfilling career in medical surgical nursing, this guide serves as your essential companion on the path to CMSRN success. Empower yourself with the knowledge and skills to make a meaningful difference in your patients' lives while advancing your professional journey. Dive in and start your transformation today.

*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'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.

**Adult CCRN Study Guide** Calvin Yates, 2025-04-07

Are you ready to elevate your career as a Critical Care Registered Nurse (CCRN) and demonstrate your expertise in the ICU? Preparing for the CCRN exam can be a daunting task, but with the right resources, strategies, and knowledge, you can confidently tackle this challenging certification and advance your nursing career. This comprehensive guide is designed to be the ultimate resource for nurses preparing for the Adult CCRN exam. Whether you're a seasoned critical care nurse or looking to specialize in the ICU, this book provides the essential information you need to pass the exam with confidence. From detailed explanations of complex medical concepts to practical test-taking strategies, this guide covers everything you need to know. Inside, you'll find in-depth coverage of all the critical systems you'll need to understand for the exam, including the cardiovascular, respiratory, neurological, renal, gastrointestinal, and hematological systems. Each topic is broken down into manageable sections, providing clear and concise explanations that enhance understanding and retention. What sets this book apart is its practical approach. You'll not only learn the theory but also how

to apply it in real world critical care scenarios. The included practice questions designed to mirror the actual CCRN exam format help you test your knowledge and get familiar with the type of questions you'll face. With detailed answers and explanations for each question, you'll be able to identify your strengths and areas for improvement, ensuring you are fully prepared for exam day. This book also emphasizes the importance of ethical decision making and patient advocacy in the critical care setting, highlighting the vital role you play in delivering compassionate care. The ethical considerations, professional conduct, and legal aspects covered throughout the guide equip you with the skills to navigate challenging situations with confidence and integrity. Whether you're taking the CCRN exam for the first time or retaking it, this guide offers valuable insights and strategies to improve your chances of success. With its clear, informative content, practical approach, and expert advice, this book is the perfect study companion for any nurse looking to achieve CCRN certification and advance their career in critical care nursing. Prepare, practice, and pass with confidence your journey to becoming a Certified Critical Care Nurse 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 Ropolewski-Ryan, 2000-10

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