

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

Study Guide For The Cardiovascular System

Edith Applegate



Study Guide For The Cardiovascular System:

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 will 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 will 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 will be well-equipped to advocate for your patients and collaborate effectively within interdisciplinary teams. Whether you are 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. *Study Guide for The Anatomy and Physiology Learning System* Edith

Applegate, 2010-03-30 Designed to accompany *The Anatomy and Physiology Learning System* 4th Edition by Edith Applegate, this study guide helps you learn and review basic A/P concepts. Each chapter emphasizes medical terminology with a set of key terms, word parts, clinical terms, and abbreviations, and then adds a variety of fun-filled learning exercises, review questions, a quiz, and a word puzzle. The study guide corresponds to the textbook chapter for chapter. Chapter learning objectives help you focus on the most important material. Key concepts are defined on the first page of each chapter in the workbook. Learning exercises for each chapter include short answer, matching, and diagrams to label and color. Self-quizzes allow you to measure your progress and understanding. Fun and Games features end each chapter with a variety of engaging

puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter The Surgical Review: An Integrated Basic and Clinical Science Study Guide Paige M. Porrett,2010 *Student Notebook and Study Guide to Accompany The Human Body* Bruce Wingerd,Patty Bostwick Taylor,2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd s *The Human Body* reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text s concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online *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 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

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