

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

Anatomy Cardiovascular System Study Guide

Kalyani Premkumar



Anatomy Cardiovascular System Study Guide:

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

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knowledge and skills to make a meaningful difference in your patients lives while advancing your professional journey Dive in and start your transformation today Aehlert's EMT-basic Study Guide Barbara Aehlert,1998-01-01 The author a well known and respected specialist in the field provides the reader with authoritative coverage of what the EMT needs to know perfectly balanced between the question bank and the more comprehensive traditional text The presentation is clear and concise making the text an excellent addition to the EMT student s resources as well as a perfect tool to use in reviewing for refresher courses 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

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certification style review questions Includes anatomic labeling exercises and key terminology Provides a basis for class discussion with case studies Ellen M Chiocca MSN CPNP APN RNC NIC is a clinical assistant professor in the School of Nursing at DePaul University She received a master of science degree in nursing and a postmaster nurse practitioner certificate from Loyola University Chicago and a bachelor of science degree in nursing from St Xavier University Prior to joining the faculty at DePaul University she taught at Loyola University Chicago from 1991 to 2013 Ms Chiocca s clinical specialty is the nursing of children Her research focuses on how various forms of violence affect children s health She is certified in neonatal intensive care nursing and as a pediatric nurse practitioner In addition to teaching at DePaul Ms Chiocca also continues clinical practice as a pediatric nurse practitioner at a community clinic in Chicago Ms Chiocca has published more than 25 journal articles and book chapters and is also a peer reviewer for the journal Neonatal Network She is currently pursuing a PhD in nursing

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