CARDIOVASCULAR SYSTEM : ANATOMY & PHYSIOLOGY

FUNCTION OF CIRCULATION

Delivers 02 , nutrients, hormones and antibodies to organs, tissues and cells Removes the end product of cellular metabolism

FUNCTION OF THE BEART

Pumps oxygeneted blood into the arterial system to supply capitlaries and tissue Pumps oxygen poor blood from the venous system through the lungs to be reoxygeneted.

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.

EDNSTATS OF 3 LATERS

- 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.

A CHAMBERS

- Right atrium: carries deoxygenated blood from the body via superior and inferior vens cava.
- Right ventricle: carries blood from the right atrium and pumps it into the lungs through the pulmonary artery
- Left strium: 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 sorts.

A VALVES

Two atrioventricular valves that close at the beginning of ventricular contraction. They prevent blood from flowing back into the stria.

- Tricuspid valve : on the right side of the heart
- Blouspid valve: on the left side of the heart

Two semilunar valves that prevent blood from flowing back into the ventricles during releasition

- Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- Aortio semiliunar valve: between the ventricle and the sorts.

CORONARY ARTERTES

- Right mein coronery artery: supplies the right atrium and ventricle, the inferior left ventricle, posterior septal wall, SA and AV nodes.
- Left main ocronary 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 end inferior vens care caygen poor blood goes to the
- 2. Right atria through the tricuspid valve
- 3. Right ventricle to the pulmonery valve
- To the pulmonary trunk and arteries into the kings Co2 is lost and 02 is gained in the pulmonary capitaries
- 5. O2 rich blood enters the pulmonary veins to the left strium
- Blood trevels through the bicuspid valve and enters the left ventricle
- Blood moves through the sortic valve and travels through the sorts to the systemic choult



Sectional Anatomy of the Heart

ELECTRICAL CONDUCTION

- BA node: pacemaker of the heart and initiates contraction at 80-100 SPM.
- AV : receives impulses from the SA node initiates and austains impulses at 40-80 BPM
- Bundle of his: continuation of the AV node and branches into the the bundle branches which terminate in the purking fibers
 - Puridinje fibers: network of conducting strands beneath the ventricular endocardium. They can act as a pacemaker when the SA and AV fall as pace makers. They can sustain at 20-40 BPM



Anatomy Cardiovascular System Study Guide

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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 guizzes 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 guestions for reinforcement and review of the concepts in each chapter 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 **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 guestion 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

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

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required for the Pediatric and Family Nurse Practitioner Certification Exams Mimics the exam format with case studies and 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 EMT Study Guide ,2025-03-24 What if you could be the first responder to someone s most critical moment making life saving decisions that can change the course of their future As an Emergency Medical Technician EMT every call could mean the difference between life and death Whether you re new to the field or looking to sharpen your skills this comprehensive EMT guide provides the essential knowledge practical advice and expert strategies needed to thrive in the fast paced world of emergency medical services You will gain a deep understanding of the core concepts and practical applications of EMT work Covering everything from airway management and patient assessment to trauma care and medical emergencies this book is designed to equip you with the skills needed to provide effective care in high pressure situations The detailed explanations of anatomy and physiology emergency protocols and treatment techniques ensure you re ready for any challenge that comes your way What sets this book apart is its focus on real world scenarios With case studies and practice questions you ll have the opportunity to apply your knowledge to practical situations allowing you to build confidence in decision making and patient care The book also dives into specialized areas like pediatric and geriatric emergencies obstetric care neurological emergencies and trauma treatment giving you a well rounded understanding of the diverse conditions EMTs face Additionally you ll learn how to handle difficult but crucial aspects of the profession such as consent refusal of care and understanding the legal and ethical considerations of EMT work The book offers valuable insights into managing high stress situations ensuring your mental and physical well being and staying current with evolving medical practices Whether you re preparing for the National Registry of Emergency Medical Technicians NREMT exam looking to pass your certification or simply striving to improve your EMT skills this guide provides you with the tools needed to succeed With practical tips for test taking time management and staying calm in emergencies this book will help you become a confident compassionate and competent EMT Prepare yourself for a career that requires skill dedication and a passion for helping others This Guide is your comprehensive resource to ensure you re ready for whatever comes next With expert

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Table of Contents Anatomy Cardiovascular System Study Guide

- 1. Understanding the eBook Anatomy Cardiovascular System Study Guide
 - The Rise of Digital Reading Anatomy Cardiovascular System Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Anatomy Cardiovascular System 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 Anatomy Cardiovascular System Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Anatomy Cardiovascular System Study Guide
 - Personalized Recommendations
 - Anatomy Cardiovascular System Study Guide User Reviews and Ratings
 - Anatomy Cardiovascular System Study Guide and Bestseller Lists
- 5. Accessing Anatomy Cardiovascular System Study Guide Free and Paid eBooks
 - o Anatomy Cardiovascular System Study Guide Public Domain eBooks
 - Anatomy Cardiovascular System Study Guide eBook Subscription Services

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