

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



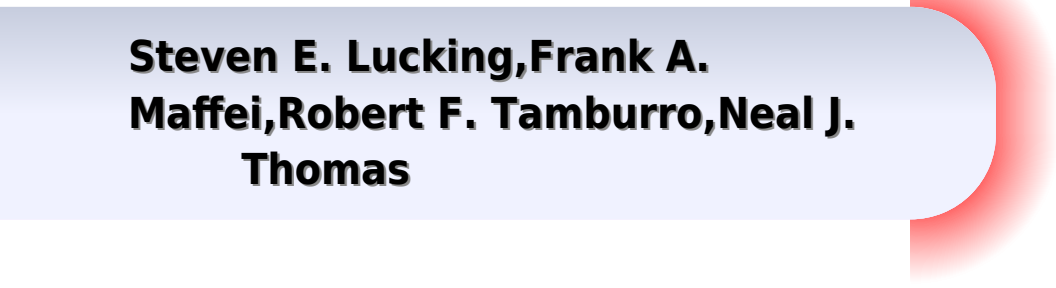
Sectional Anatomy of the Heart

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

**Steven E. Lucking, Frank A.
Maffei, Robert F. Tamburro, Neal J.
Thomas**



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

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 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

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 *Study Guide to Accompany Anatomy and Physiology* Kalyani Premkumar,2011-03-16 The 3rd edition of Anatomy and Physiology ties anatomy and physiology to situations massage therapy students will face in practice amnd makes this material accessible to facilitate learning This accompanying study guide helps students apply their knowledge and ensure their understanding of the content covered **Human Anatomy and Physiology: A Study Guide** Cybellium,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www.cybellium.com *Ssg- Human Biology 6E Student Study Guide* Chiras,2008-02 Human Biology Sixth Edition provides students with a clear and concise introduction to the general concepts of mammalian biology and human structure and function With its unique focus on health and homeostasis Human Biology enhances students understanding of their own health needs and presents the scientific background necessary for students to think critically about biological information they encounter in the media The completely revised content and exceptional new art and photos provide students with a more user friendly text while excellent learning tools maximize comprehension of material *Study Guide for Medical-Surgical Nursing - E-Book* Holly K. Stromberg,2025-05-06 Reinforce your understanding of medical surgical nursing concepts and skills With chapters corresponding to the chapters in Stromberg s Medical Surgical Nursing Concepts and Practice 6th Edition this study guide provides a variety of exercises to help you master the role of the LPN LVN Review questions help you understand terms and apply concepts to patient care settings and realistic activities provide practice with critical thinking and clinical judgment skills Next Generation NCLEX PN NGN style practice questions and case studies ensure that you will be ready to pass the NGN exam Case studies help you practice and develop clinical judgment Application of the nursing process critical thinking activities and prioritization exercises challenge you to apply concepts from the text to real life scenarios in addition to developing clinical judgment Next Generation NCLEX format questions allow you to review and practice for the licensure examination Communication section includes vocabulary grammar and cultural scenarios to help you practice communication with a diverse patient population *Study Guide for*

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Pediatric Critical Care Study Guide Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-12 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

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Human Anatomy and Physiology Coloring Workbook and Study Guide Paul D. Anderson,2008-04-25 This valuable student resource is intended for use in the undergraduate human anatomy and physiology class The latest edition of Human Anatomy and Physiology Coloring Workbook is designed to help students learn introductory anatomy and physiology and is organized to complement the leading texts in the field Virtually every structure of the human body typically studied in an introductory course is examined Chapters are short concise and complete enabling the student to master smaller sections of information in a cohesive manner 2009 292 pages

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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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Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book Brigitte Niedzwiecki, Julie Pepper, P. Ann Weaver, 2022-06-18 Designed to support the trusted content in Kinn's The Medical Assistant 14th Edition this study guide is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure that you learn to master and apply key medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common administrative and clinical skills including new certification preparation questions that offer additional practice for certification exams a review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years as a key part of the student journey from classroom to career it also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Comprehensive coverage of all administrative and clinical procedures is built from Medical Assisting accreditation standards and competencies Hundreds of practice questions multiple choice true false fill in the blank help students with essential content review and practice Skills practice workplace applications and online activities promote critical thinking before students enter practice Procedure checklists help students track their performance of every procedure included in the textbook Work products allows students to provide documentation of skills mastery for classroom or job searching requirements Chapter by chapter correlation with the textbook allows students to easily follow core textbook competencies Perforated pages for on the go study or turn in assignments and evaluations NEW Chapter reviews medical terminology anatomy and physiology and pathology to reinforce key foundational knowledge NEW Expanded content on medical office accounts collections banking and practice management prepares students to step into the role of a Medical Assistant NEW Certification Preparation questions help students focus on certification from the beginning of their studies NEW Streamlined presentation combines chapters and focuses on need to know content

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