

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 Of The Cardiovascular System Key

**Leanne Aitken,Andrea
Marshall,Thomas Buckley**



Anatomy Of The Cardiovascular System Key:

The Dissection of Vertebrates Gerardo De Iuliis, Dino Pulerà, 2006-08-03 The Dissection of Vertebrates covers several vertebrates commonly used in providing a transitional sequence in morphology With illustrations on seven vertebrates lamprey shark perch mudpuppy frog cat pigeon this is the first book of its kind to include high quality digitally rendered illustrations This book received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators It is organized by individual organism to facilitate classroom presentation This illustrated full color primary dissection manual is ideal for use by students or practitioners working with vertebrate anatomy This book is also recommended for researchers in vertebrate and functional morphology and comparative anatomy The result of this exceptional work offers the most comprehensive treatment than has ever before been available Received the Award of Excellence in an Illustrated Medical Book from the Association of Medical Illustrators Expertly rendered award winning illustrations accompany the detailed clear dissection direction Organized by individual organism to facilitate classroom presentation Offers coverage of a wide range of vertebrates Full color strong pedagogical aids in a convenient lay flat presentation Principles of Human Anatomy Gerard J. Tortora, Mark Nielsen, 2020-11-24 Immerse yourself in the spectacular visuals and dynamic content of Principles of Human Anatomy Designed for the one term Human Anatomy course this textbook raises the standard for excellence in the discipline with its enhanced illustration program refined narrative and dynamic resources Principles of Human Anatomy is a rich digital experience giving students the ability to learn and explore human anatomy both inside and outside of the classroom **Straight A's in Anatomy and Physiology** Lippincott Williams & Wilkins, 2007 Straight A's in Anatomy and Physiology is an excellent review for the NCLEX and for fundamentals and health assessment courses from the LPN through the BSN level It follows the unique highly visual two column Straight A's format an in depth outline review in the inner column and a quick scan key points refresher in the outer column Other study aids include Top 10 Lists that save students time before exams Time Out for Teaching tips on patient teaching Go with the Flow algorithms and dozens of illustrations The book and bound in CD ROM contain hundreds of NCLEX style questions including alternate format questions with answers and rationales Anatomy and Physiology for the Manual Therapies Andrew Kuntzman, Gerard J. Tortora, 2009-08-17 Anatomy Physiology for the Manual Therapies 1e is designed to meet the specific needs of students preparing for careers in the manual therapies such as massage therapy and careers as physical therapy assistants This book provides the most appropriate depth of coverage for each body system in both narrative and visuals and by including relevant applications linking the content to situations they will face in their careers *Cellular and Molecular Pathobiology of Cardiovascular Disease* Monte Willis, Jonathon W. Homeister, James R. Stone, 2013-12-23 Cellular and Molecular Pathobiology of Cardiovascular Disease focuses on the pathophysiology of common cardiovascular disease in the context of its underlying mechanisms and molecular biology This book has been developed from the editors experiences

teaching an advanced cardiovascular pathology course for PhD trainees in the biomedical sciences and trainees in cardiology pathology public health and veterinary medicine No other single text reference combines clinical cardiology and cardiovascular pathology with enough molecular content for graduate students in both biomedical research and clinical departments The text is complemented and supported by a rich variety of photomicrographs diagrams of molecular relationships and tables It is uniquely useful to a wide audience of graduate students and post doctoral fellows in areas from pathology to physiology genetics pharmacology and more as well as medical residents in pathology laboratory medicine internal medicine cardiovascular surgery and cardiology Explains how to identify cardiovascular pathologies and compare with normal physiology to aid research Gives concise explanations of key issues and background reading suggestions Covers molecular bases of diseases for better understanding of molecular events that precede or accompany the development of pathology

Grainger & Allison's Diagnostic Radiology: Chest and Cardiovascular System Cornelia Schaefer-Prokop, Adrian K. Dixon, 2015-11-24 The 17 chapters in this book have been selected from the contents of the Chest and Cardiovascular System section in Grainger Allison s Diagnostic Radiology 6e These chapters provide a succinct up to date overview of current imaging techniques and their clinical applications in daily practice and it is hoped that with this concise format the user will quickly grasp the fundamentals they need to know Throughout these chapters the relative merits of different imaging investigations are described variations are discussed and recent imaging advances are detailed

Human Anatomy Laboratory Manual with Cat Dissections Elaine Nicpon Marieb, 1996-06-27

Respiratory Care Anatomy and Physiology E-Book Will Beachey, 2022-05-05 Selected for Doody s Core Titles 2024 in Respiratory Therapy Gain the solid foundation in A P that you need to provide effective respiratory care Respiratory Care Anatomy and Physiology 5th Edition provides an in depth understanding of the physiology and pathophysiology of the lungs heart vascular system and kidneys It connects theory with practice showing how physiological principles guide the selection and use of diagnostic therapeutic and monitoring procedures New to this edition are clinical scenarios for issues such as vaping and the addiction pathway Written by noted educator Will Beachey this book uses a body systems approach and a unique clinical focus to help you think like a clinician and succeed as a respiratory care professional Clinical Focus boxes relate the material to real life situations in health care showing the practical importance of understanding physiological concepts Concept Questions stimulate critical thinking in a clinical context with open ended self assessment questions Chapter outlines learning objectives key terms and bulleted Points to Remember highlight the most important concepts and ideas in each chapter Appendixes make it easy to locate symbols and abbreviations units of measurement equation derivations and a Dubois body surface area chart NEW Clinical Focus scenarios are all revised and updated and new scenarios are added on topics including the effects of electronic nicotine devices vaping on the lung the addiction pathway and the counseling role of the respiratory therapist pulse CO oximeter use at the bedside non invasive assessment of the oxygenation deficit A a O₂ difference early prone positioning of the non

intubated patient with COVID 19 and Transcatheter Aortic Valve Replacement TAVR NEW Updated Physiological Basis for Oxygenation and Mechanical Ventilation Strategies chapter covers pathophysiology and supportive care of SARS CoV 2 COVID 19 ARDS and the concepts of stress strain driving pressure and the mechanical power of ventilation as they relate to the prevention of ventilator induced lung injury VILI NEW Updated GINA 2020 asthma guidelines address the use of a long acting beta agonist LABA inhaled corticosteroid ICS combination in emergency rescue situations NEW Updated coverage of phrenic nerve stimulation examines the obtaining of transdiaphragmatic twitch pressure Pditw in the assessment of ventilatory fatigue

Anatomy and Physiology 2e J. Gordon Betts, Kelly A. Young, James A. Wise, Eddie Johnson, Brandon Poe, Dean H. Kruse, Oksana Korol, Jody E. Johnson, Mark Womble, Peter DeSaix, 2024-09-11 Anatomy and Physiology 2e is developed to meet the scope and sequence for a two semester human anatomy and physiology course for life science and allied health majors The book is organized by body systems The revision focuses on inclusive and equitable instruction and includes new student support Illustrations have been extensively revised to be clearer and more inclusive This is an adaptation of Anatomy and Physiology 2e by OpenStax You can access the textbook as pdf for free at openstax org Minor editorial changes were made to ensure a better ebook reading experience Textbook content produced by OpenStax is licensed under a Creative Commons Attribution 4 0 International License

Respiratory Care Anatomy and Physiology Will Beachey, PhD, RRT, FAARC, 2012-10-22 Perfect for both practicing therapists and students in respiratory therapy and associated professions this well organized text offers the most clinically relevant and up to date information on respiratory applied anatomy and physiology Content spans the areas of basic anatomy and physiology of the pulmonary cardiovascular and renal systems and details the physiological principles underlying common therapeutic diagnostic and monitoring therapies and procedures Using a clear and easy to understand format this text helps you take a more clinical perspective and learn to think more critically about the subject matter Open ended concept questions require reasoned responses based on thorough comprehension of the text fostering critical thinking and discussion Clinical Focus boxes throughout the text place key subject matter in a clinical context to connect theory with practice Chapter outlines chapter objectives key terms and a bulleted chapter summary highlight important concepts and make content more accessible Appendixes contain helpful tables and definitions of terms and symbols NEW Chapter on the physiological basis for treating sleep disordered breathing clarifies the physiological mechanisms of sleep disordered breathing and the various techniques required to treat this type of disorder NEW Reorganization of content places the section on the renal system before the section on integrated responses in exercise and aging to create a more logical flow of content NEW More Clinical Focus scenarios and concept questions provide additional opportunities to build upon content previously learned and to apply new information in the text

Essentials Of Medical Laboratory Practice Constance L Lieseke, Elizabeth A Zeibig, 2012-01-31 Inside you ll find a wealth of information on important laboratory terminology and the procedures you ll need to perform to become an effective

member of a physician's office team Coverage of the advanced procedures performed outside of the physician's office explains what happens to the samples you send out There's also information on CLIA and other government regulations and how they affect each procedure

Egan's Fundamentals of Respiratory Care E-Book Robert M. Kacmarek, James K. Stoller, Albert J. Heuer, 2019-12-18 Textbook and Academic Authors Association TAA McGuffey Longevity Award Winner 2024 Learn the principles and skills you'll need as a respiratory therapist Egan's Fundamentals of Respiratory Care 12th Edition provides a solid foundation in respiratory care and covers the latest advances in this ever-changing field Known as the bible for respiratory care this text makes it easy to understand the role of the respiratory therapist the scientific basis for treatment and clinical applications Comprehensive chapters correlate to the 2020 NBRC Exam matrices preparing you for clinical and exam success Written by noted educators Robert Kacmarek James Stoller and Albert Heuer this edition includes new chapters on heart failure as well as ethics and end of life care plus the latest AARC practice guidelines Updated content reflects the newest advances in respiratory care preparing you to succeed in today's health care environment UNIQUE Mini Clinics provide case scenarios challenging you to use critical thinking in solving problems encountered during actual patient care Decision trees developed by hospitals highlight the use of therapist-driven protocols to assess a patient initiate care and evaluate outcomes Rules of Thumb highlight rules formulas and key points that are important to clinical practice Learning objectives align with the summary checklists highlighting key content at the beginning and at the end of each chapter and parallel the three areas tested on the 2020 NBRC Exam matrices Learning resources on the Evolve companion website include an NBRC correlation guide image collection lecture notes Body Spectrum electronic anatomy coloring book and an English Spanish glossary Student workbook provides a practical study guide reflecting this edition of the text offering numerous case studies experiments and hands-on activities Available separately Full color design calls attention to the text's special features and promotes learning Glossary includes key terms and definitions needed for learning concepts NEW Heart Failure chapter covers the disease that is the most frequent cause of unscheduled hospital admissions NEW Ethics and End of Life Care chapter explains related issues and how to help patients and their families NEW Improved readability makes the text easier to read and concepts easier to understand NEW Updated practice guidelines from the AARC American Association for Respiratory Care are included within the relevant chapters NEW Updated chapters include topics such as arterial lines stroke ACLS PALS hemodynamics polysomnography waveform interpretation and laryngectomy NEW Streamlined format eliminates redundancy and complex verbiage

Cardiovascular and Pulmonary Physical Therapy E-Book Donna Frownfelter, Elizabeth Dean, Marcia Stout, Rob Kruger, Joseph Anthony, 2022-01-19 Commensurate with an emphasis on evidence-based practice and health competencies to improve patient outcomes get a solid foundation in cardiovascular and pulmonary physiology and rehabilitation Cardiovascular and Pulmonary Physical Therapy Evidence and Practice 6th Edition provides a holistic person-centered approach to the spectrum of cardiovascular and pulmonary physical therapy From

examination and evaluation to interventions this book guides you through the health promotion strategies for maximizing patients health and wellbeing in conjunction with managing the needs of patients with acute and chronic conditions those in intensive care units and of special populations such as children and elders Selected case studies translate related scientific research into evidence based practice and enhance clinical decision making Now including an enhanced eBook version with print purchase this text details the latest best practices to help achieve the best physical therapy outcomes Coverage of evidence based practice includes the latest research from leading top tier journals to support physical therapist clinical reasoning and decision making Realistic scenarios and case examples show the application of concepts to evidence based practice Holistic approach supports treating the whole person rather than just the symptoms of a disease or disorder covering medical physiological psychological psychosocial therapeutic practical and methodological aspects Full color photos and illustrations enhance your understanding of the book s concepts ideas and management considerations Emphasis on the terminology and guidelines of the APTA s Guide to Physical Therapist Practice keeps the book consistent with the practice standards in physical therapy including the International Classification of Functioning Disability and Health Primary and secondary cardiovascular and pulmonary conditions are emphasized along with their co existence Multimorbidity focus is used rather than a single disease framework with attention to implications for assessment management and evaluation Integrated approach to oxygen transport demonstrates how the cardiovascular and pulmonary systems function interdependently to support all organ systems Key terms and review questions in each chapter focus your learning on important concepts and translating these into practice NEW Updated content reflects the latest research and clinical practice in the field NEW eBook version included only with print purchase allows you to access all the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud NEW Video clips interviews with authors and other experts in their fields and more are available in the eBook version included only with print purchase NEW Expanded contributions from experts from multiple countries maximize the validity of content

Physical Activity and Health Kelli McCormack Brown, David Q. Thomas, Jerome Edward Kotecki, 2002 This book focuses on the interconnectedness of health and being physically alive

ACCCN's Critical Care Nursing - E-Book Leanne Aitken, Andrea Marshall, Wendy Chaboyer, 2011-11-21 A revised new edition of this comprehensive critical care nursing text developed with the Australian College of Critical Care Nurses ACCCN This second edition of ACCCN s Critical Care Nursing has been fully revised and updated for critical care nurses and students in Australia and New Zealand As well as featuring the most recent critical care research data current clinical practice policies procedures and guidelines specific to Australia and New Zealand this new edition offers new and expanded chapters and case studies The ultimate guide for critical care nurses and nursing students alike ACCCN s Critical Care Nursing 2e has been developed in conjunction with the Australian College of Critical Care Nurses ACCCN As with the first edition the text in ACCCN s Critical Care Nursing 2e reflects the

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Learning to Care - E-Book Ian Peate, 2024-08-16 As the role of the nursing associate becomes increasingly embedded in health and care in the UK, this popular text is designed to fully prepare students for their future professional role as competent and compassionate nursing associates. *Learning to Care: The Nursing Associate Second Edition* is written by a team of leading educators and practitioners to meet the specific needs of student nursing associates. It is straightforward to read and understand, covering everything from how to learn and how to write an essay to fundamental anatomy and physiology and how to manage common disorders. This second edition has been fully updated to address evolving trends, making it ideal for all student nursing associates, educators and practitioners. Fully updated to meet the changing needs of student nursing associates, educators and practitioners. Contains evidence-based practice guidelines, research findings and clinical standards. Engaging and straightforward to read, accessible for all student nursing associates. Teaching supported through interactive learning activities and self-test features. High quality illustrations also available in an accompanying downloadable image bank. Based on the NMC standards and the NMC Code. Visual aids complement the text, support visual learning and reinforce key concepts. Case studies and critical thinking exercises help students apply their knowledge and develop clinical reasoning skills. Expanded scope provides comprehensive coverage of essential nursing concepts and skills. Updated content incorporating the latest evidence-based practice guidelines, research findings and clinical standards relevant to nursing. Chapters revised to reflect changes in health and care, politics, policies, procedures and technologies. Emerging topics, specialised areas of nursing practice and recent advances in health and care addressed.

Brunner & Suddarth's Textbook of Medical-Surgical Nursing Janice L. Hinkle, Kerry H. Cheever, Kristen J.

Overbaugh, Carolyn E. Bradley, 2025-08-11 Thoroughly streamlined while preserving the comprehensive evidence-based approach, students and faculty trust *Brunner Suddarth's Textbook of Medical Surgical Nursing 16th Edition* remains the definitive resource for medical surgical nursing education. This landmark text builds competence from core concepts to

complex care guiding students intuitively with its nursing centered focus realistic case studies and progressive learning structure The 16th edition incorporates expanded diversity content reflecting modern health realities and integrates seamlessly with enhanced Lippincott CoursePoint resources for personalized learning transforming students into confident practitioners ready for today's clinical challenges **Textbook of Head and Neck Anatomy** James L. Hiatt, 2020-03-18 Now in full color the Fourth Edition of this classic text combines concise yet complete coverage of head and neck anatomy with superb photographs drawings and tables to provide students with a thorough understanding of this vital subject This edition contains basic anatomic information not found in other specialized textbooks of head and neck anatomy It details structures of the oral cavity from an oral examination point of view to promote the practical application of fundamental anatomic concepts Other features include Clinical Considerations boxes that highlight the clinical significance of anatomy a discussion of the anatomic basis of local anesthesia and lymphatic drainage and an embryological account of head and neck development ***Critical Care Nursing*** Leanne Aitken, Andrea Marshall, Thomas Buckley, 2023-12-19 The internationally acclaimed text *Critical Care Nursing* is designed to support undergraduate and postgraduate students and critical care nurses in practice to develop the knowledge and skills necessary to deliver high quality patient care to contribute to improved patient outcomes The fifth edition has been fully updated with the latest evidence resources and tools designed to help you master a range of competencies from patient monitoring to delivering multidimensional interventions using complex lifesaving equipment and managing the deteriorating patient There is a focus on the scope and principles of practice quality and safety standards ethical considerations and increased support for nurses Highly regarded by clinicians and students around the world this book will encourage and challenge you to develop world class practice and ensure the delivery of the highest quality care Latest research technologies and care considerations collated by an internationally respected team of editors and contributors Case studies research vignettes and learning activities to support further learning Practice tips case studies and learning activities link theory to practice Endorsed by the Australian College of Critical Care Nurses ACCCN the peak professional organisation representing critical care nurses in Australia Accompanying adaptive quizzing to support students with assessment preparation Instructor resources on Evolve Case Study suggested responses Learning Activity suggested responses Additional Case Study answers Image Table Box collection Student and Instructor resources on Evolve Additional Case Studies Fully updated with the most recent research data procedures and guidelines from expert international critical care nursing clinicians and academics Increased focus on pandemic related considerations including COVID 19 woven throughout all chapters ***Lymphedema*** Arin K. Greene, Sumner A. Slavin, Håkan Brorson, 2015-03-18 This volume is a clinically oriented book that can be used for patient care teaching or research It covers the entire field of lymphedema including both primary and secondary disease as well as all diagnostic and treatment modalities The text begins with a foundation for the condition including its pathophysiology epidemiology and morbidity Next the classification of

lymphedema is covered which is the template for accurate diagnosis Clinical radiological and differential diagnosis of lymphedema is also reviewed Finally conservative and operative management is presented including both physiologic and excisional procedures Lymphedema Presentation Diagnosis and Treatment provides a comprehensive easy to read reference for any health care provider managing a patient with lymphedema The text is clinically focused evidence based and practical The reader regardless of his her level of training or specialty will be able to adequately treat a patient with lymphedema using this resource To facilitate its use in clinical settings the book was designed to be portable In addition diagnostic and treatment algorithms are included to further simplify the management of these patients Patient images are presented throughout the text to illustrate the clinical care of lymphedema All chapters are written by experts in the field and contain the most current information on the topic

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