

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

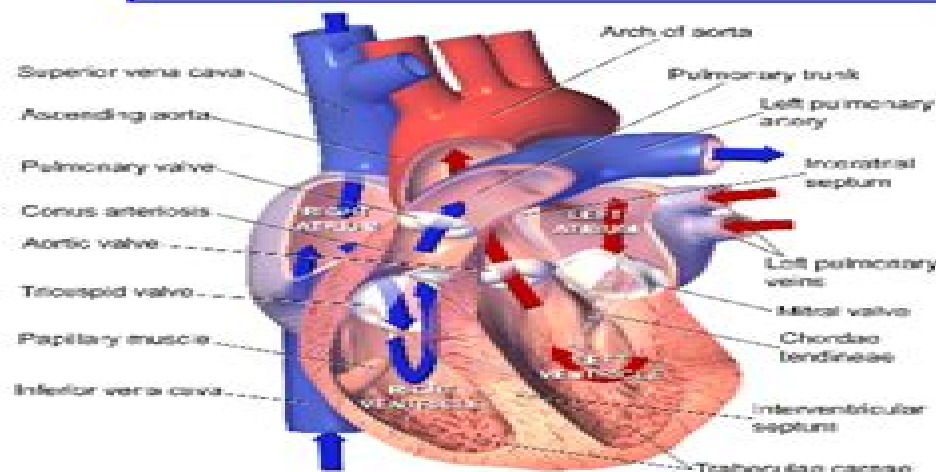
- Pulmonic semilunar valve: between the right ventricle and pulmonary artery
- Aortic semilunar valve: between the ventricle and the aorta.

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

Mcgraw Hill Cardiovascular System Study Guide

Donna M. Lusardi, Rosemarie Kent



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The Objective Structured Clinical Examination Review Mubashar Hussain Sherazi, Elijah Dixon, 2018-11-05 This review book comprehensively covers most aspects of the Objective Structured Clinical Examination OSCE Each chapter provides a meticulous overview of a topic featured in the OSCE including general surgery pediatrics psychiatry obstetrics and gynecology gastroenterology geriatrics hematology and ethics Common scenarios for each topic are featured in every chapter accompanied by instructions and tips on how to take a patient s history diagnose a patient discuss treatment options and address patient concerns under each scenario Possible areas of difficulty common candidate mistakes made and important differential diagnosis are outlined in each chapter The text is also supplemented with check lists photographs and tables for enhanced readability and ease of use Written by experts in their respective fields The Objective Structured Clinical Examination Review is a valuable resource for medical students and residents preparing for the OSCE

Rosen's Emergency Medicine - Concepts and Clinical Practice E-Book John Marx, Robert Hockberger, Ron Walls, 2013-08-01 Rely on Rosen s Emergency Medicine for the latest answers on every facet of emergency medicine practice For decades this medical reference book has set the standard in emergency medicine offering unparalleled comprehensiveness clarity and authority to help you put the latest and best knowledge to work for your patients in the ER Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Practice confidently with easily actionable dependable guidance on the entire breadth of emergency medicine topics Get expert guidance on how to approach specific clinical presentations in the ER The Cardinal Presentations Section provides quick and easy reference to differential diagnosis and directed testing for fever in the adult patient dizziness and vertigo chest pain and over 20 other frequently seen presentations in the emergency department Effectively apply the newest emergency medicine techniques and approaches including evidence based therapies for shock high cost imaging evaluation and resuscitation of the trauma patient cardiovascular emergencies evaluation and risk stratification for transient ischemic attack TIA patients and much more Locate the answers you need quickly thanks to a user friendly full color design complete with more illustrations than ever before Access the complete contents on the go from your laptop or mobile device at Expert Consult fully searchable with links to PubMed

The Advanced Practice Nurse Cardiovascular Clinician Kelley Anderson, 2015-10-20 Focusing on the interdisciplinary team this cardiovascular resource provides evidence based knowledge and guidance for advanced practice nurses in a variety of care settings Its clinically relevant and directly applicable information is presented in an accessible and well organized format The book encompasses clinical findings diagnostic testing state of the art procedures and therapeutic interventions commonly utilized in inpatient and outpatient clinical cardiology It is specifically designed to meet the informational needs of advanced practice registered nurse providers and students including family nurse practitioners adult gerontology acute care nurse practitioners nurse anesthetists and

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National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1965

Cardiovascular and Pulmonary Physical Therapy Donna Frownfelter, Elizabeth Dean, 2012-03-30 Providing a solid foundation in cardiovascular and pulmonary physiology and rehabilitation Cardiovascular and Pulmonary Physical Therapy Evidence and Practice 5th Edition uses the latest scientific literature and research in covering anatomy and physiology assessment and interventions A holistic approach addresses the full spectrum of cardiovascular and pulmonary physical therapy from acute to chronic conditions starting with care of the stable patient and progressing to management of the more complex unstable patient Both primary and secondary cardiovascular and pulmonary disorders are covered In this edition updates include new full color clinical photographs and the most current coverage of techniques and trends in cardiopulmonary physical therapy Edited by Donna Frownfelter and Elizabeth Dean recognized leaders in cardiovascular and

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Critical Care Medicine Review: 1000 Questions and Answers Abraham Sonny,Edward A Bittner,Ryan J. Horvath,Sheri Berg,2019-09-16 Covering all four critical care board exams anesthesiology surgery internal medicine and neurology Critical Care Medicine Review 1000 Questions and Answers prepares you for exam success as well as clinical practice in today's ICU This full color easy to use review tool provides challenging case studies relevant images multiple choice board style questions rationales for correct and incorrect answers and references for every question Edited by instructors of anesthesia and critical care from Harvard Medical School and Massachusetts General Hospital this comprehensive resource is an ideal study guide for critical care fellows recertifying practitioners and CCRNs [Home and School Reading and Study Guides](#) Donna M. Lusardi,Rosemarie Kent,2007

Introduction to Exercise Physiology Tommy Boone,2014 Introduction to Exercise Physiology identifies the key scientific content that is critically important to the successful practice of exercise physiology This text introduces students to the scientific basis for the practice of exercise physiology to prevent or control mind body diseases to promote health and well being and to enhance athlete performance The goal of this text is to embrace a new paradigm of exercise physiology as a comprehensive healthcare profession Introduction to Exercise Physiology emphasizes sound scientific content that will help exercise physiologists design appropriate exercise prescription that focuses on the public health challenges of sedentary living In addition the text enables students to understand the effects of sports nutrition and athletic performance by examining exercise metabolism fuel utilization and cardiovascular functions and adaptations from a non performance enhancing supplement perspective Specific physiologic calculations are presented to teach students how to monitor exercise intensity as well as to improve the safety

and credibility of client specific test protocols health and fitness training programs and athletic competitions Introduction to Exercise Physiology teaches students the necessary physiologic electrocardiographic biomechanic and anatomic concepts to prepare for and pass the ASEP Board Certification exam Key Features Chapters are organized into the following seven major areas in accordance with the emphasis on exercise as medicine I Scientific Aspects of Exercise PhysiologyII Training the Cardiorespiratory and Muscular SystemsIII Training and PerformanceIV Exercise Is MedicineV Exercise BiomechanicsVI Anatomy of Sports and ExerciseVII The Profession of Exercise PhysiologyEach chapter begins with an overview of the chapter objectives presented in the form of individual questions Chapters conclude by providing students with a list of key terms a chapter outline glossary study questions suggested readings and references to further student learning Includes a discussion around the importance of exercise physiology as a profession and covers the future challenges for exercise physiologists the basics of the change process and the importance of a professional organization [Current Catalog](#) National Library of Medicine (U.S.),1983 First multi year cumulation covers six years 1965 70 **BATES' Guide to Physical Examination and History Taking** Uzma Firdaus,2020-04-01 Bates Guide to Physical Examination and History Taking is designed for undergraduate and postgraduate students in medicine and allied specialties *Braunwald's Heart Disease E-Book* Douglas L. Mann,Douglas P. Zipes,Peter Libby,Robert O. Bonow,2014-07-30 Ideal for cardiologists who need to keep abreast of rapidly changing scientific foundations clinical research results and evidence based medicine Braunwald's Heart Disease is your indispensable source for definitive state of the art answers on every aspect of contemporary cardiology helping you apply the most recent knowledge in personalized medicine imaging techniques pharmacology interventional cardiology electrophysiology and much more Practice with confidence and overcome your toughest challenges with advice from the top minds in cardiology today who synthesize the entire state of current knowledge and summarize all of the most recent ACC AHA practice guidelines Locate the answers you need fast thanks to a user friendly full color design with more than 1 200 color illustrations Learn from leading international experts including 53 new authors Explore brand new chapters such as Principles of Cardiovascular Genetics and Biomarkers Proteomics Metabolomics and Personalized Medicine Access new and updated guidelines covering Diseases of the Aorta Peripheral Artery Diseases Diabetes and the Cardiovascular System Heart Failure and Valvular Heart Disease Stay abreast of the latest diagnostic and imaging techniques and modalities such as three dimensional echocardiography speckle tracking tissue Doppler computed tomography and cardiac magnetic resonance imaging Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office,1975 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1943 **National Library of Medicine Audiovisuals Catalog** National

Library of Medicine (U.S.), **PA Review for the PANCE** Julie Kinzel, Patrick Auth, 2019-03-25 Prepare for the PANCE exam with this updated and revised resource and NEW digital enhancements PA Review for the PANCE prepares students for certification PANCE and recertification PANRE examination This edition contains concise streamlined content with practice questions and tables figures charts and graphs that summarize information for efficient study Also included with the Fifth Edition online access to a NEW enhanced eBook offering digital resources that will strengthen and reinforce your PANCE and PANRE knowledge **The ESC Textbook of Cardiovascular Nursing** Catriona Jennings, Felicity Astin, Donna Fitzsimons, Ekaterini Lambrinou, Lis Neubeck, David R. Thompson, 2022-01-14 This textbook provides in depth learning for nurses specialising in caring for patients with coronary heart disease heart failure valvular disease arrhythmias congenital heart disease and inherited cardiovascular conditions *Physician Assistant Review* Patrick C. Auth, Morris D. Kerstein, 2012-08-20 Physician Assistant Review Fourth Edition provides a comprehensive review for students and practicing physician assistants preparing for the Certification PANCE and Recertification PANRE examinations Nineteen sections organized by body system describe common diseases in a consistent format etiology pathology clinical features diagnostic studies and management Access to a companion Website offers over 1 000 Board format questions which can be taken in Study Mode or Test Mode and a 360 question comprehensive exam Complete explanations of both correct and incorrect answer choices are provided to help you better understand your area of weakness to better focus your studying New for this edition A new chapter Preventive Medicine has been added Each chapter has been updated to reflect the latest standards of care and revisions based on our readers feedback Expanded online updated test bank with rationales for the correct and incorrect answers to help focus your studying Team of test item reviewers have reviewed the test questions to ensure you are getting the best quality questions

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