

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

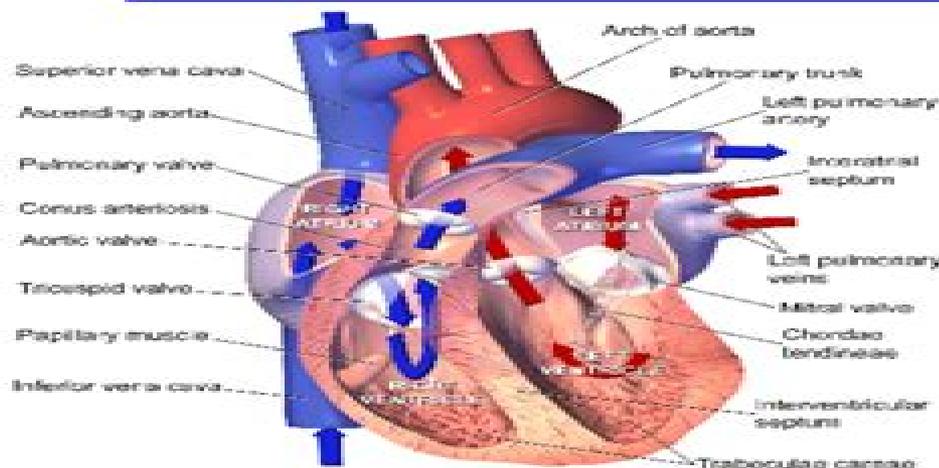
- Pulmonic semilunar valve**: between the right ventricle and pulmonary artery
- Aortic semilunar valve**: between the ventricle and the aorta.

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 60- 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

Cardiovascular Physiology

David E. Mohrman, Lois Jane Heller



Cardiovascular Physiology:

An Introduction to Cardiovascular Physiology J R Levick,2013-10-22 An Introduction to Cardiovascular Physiology is designed primarily for students of medicine and physiology This introductory text is mostly didactic in teaching style and it attempts to show that knowledge of the circulatory system is derived from experimental observations This book is organized into 15 chapters The chapters provide a fuller account of microvascular physiology to reflect the explosion of microvascular research and include a discussion of the fundamental function of the cardiovascular system involving the transfer of nutrients from plasma to the tissue They also cover major advances in cardiovascular physiology including biochemical events underlying Starling s law of the heart nonadrenergic non cholinergic neurotransmission the discovery of new vasoactive substances produced by endothelium and the novel concepts on the organization of the central nervous control of the circulation This book is intended to medicine and physiology students

Cardiovascular Physiology Concepts Richard E. Klabunde,2005 This uniquely readable compact and concise monograph lays a foundation of knowledge of the underlying concepts of normal cardiovascular function Students welcome the book s broad overview as a practical partner or alternative to a more mechanistically oriented approach or an encyclopedic physiology text Especially clear explanations ample illustrations a helpful glossary of terms tutorials and chapter opening learning objectives provide superb guidance for self directed learning and help fill the gap in many of today s abbreviated physiology blocks A focus on well established cardiovascular principles reflects recent widely accepted cardiovascular research The supplemental CD ROM is an interactive dynamically linked version of the book which is organized by normal cardiovascular function and cardiac disease Students may begin a path of questioning with for example a disease condition and then pursue background information through a series of links Students can also link to the author s regularly updated Web site for additional clinical information

Cardiovascular Physiology William R. Milnor,1990 This book provides coverage of the mammalian cardiovascular system and the physiological mechanisms that maintain normal function from the molecular and cellular level to the integrated function of the entire human organism The author also reviews historical developments in the field and offers a detailed survey of hemodynamic variables and methods for measuring cardiovascular function

Cardiovascular Physiology Burt B. Hamrell,2018-01-29 Cardiovascular disease remains the chief cause of mortality and morbidity in adults in many parts of the world and diagnosis and treatment is increasingly based on cellular intracellular and molecular parameters as well as systems analysis Consequently it is vital that medical students learn the fundamental physiology of the cardiovascular system This book along with its interactive electronic learning modules breathes life into the subject with animations videos and game like decision making

Cardiovascular Physiology Carol Ann Margaret Courneya,Michael J. Parker,2011 This text provides a clear clinically oriented exposition of the essentials of cardiovascular physiology for medical students residents nurses and allied health professionals Detailed illustrations and online animated figures help students

understand key cardiovascular concepts **Cardiovascular Physiology, Seventh Edition** David E. Mohrman, Lois Jane Heller, 2010-08-06 The study guide that helps you to truly understand rather than merely memorize the essential principles of cardiovascular medicine The goal of this unique review is to give you a working understanding of the key concepts of cardiovascular physiology Concise but thorough Cardiovascular Physiology focuses on the facts you need to get a solid big picture overview of how the cardiovascular system operates under normal and abnormal situations There is no faster or more effective way to learn how the key principles of cardiovascular function apply to common physiological and pathological challenges than this engagingly written guide Features Clarifies the details of physiologic mechanisms and their role in pathologic states Links cardiovascular physiology to diagnosis and treatment Summarizes key concepts at the end of each chapter Highlights must know information with chapter objectives Provides the perfect quick review for the USMLE Step 1 Reinforces learning with study questions at the end of each chapter Keeps you up to date on the latest research and developments in this ever changing field The content you need to gain a thorough understanding of this essential subject Overview of the Cardiovascular System Characteristics of Cardiac Muscle Cells The Heart Pump Measurement of Cardiac Function Cardiac Abnormalities The Peripheral Vascular System Vascular Control Central Venous Pressure An Indicator of Circulatory Hemodynamics Regulation of Arterial Pressure Cardiovascular Response to Physiological Stresses Cardiovascular Function in Pathological Situations *Cardiovascular Physiology Concepts* Richard Klabunde, 2011-11-03 Now in its second edition this highly accessible monograph lays a foundation for understanding of the underlying concepts of normal cardiovascular function Students of medicine and related disciplines welcome the book s concise coverage as a practical partner or alternative to a more mechanistically oriented approach or an encyclopedic physiology text A focus on well established cardiovascular principles reflects recent widely accepted research from the field **Cardiovascular Physiology - E-Book** Achilles J. Pappano, Withrow Gil Wier, 2018-09-06 Gain a foundational understanding of cardiovascular physiology and how the cardiovascular system functions in health and disease Cardiovascular Physiology a volume in the Mosby Physiology Series explains the fundamentals of this complex subject in a clear and concise manner while helping you bridge the gap between normal function and disease with pathophysiology content throughout the book Helps you easily master the material in a systems based curriculum with learning objectives Clinical Concept boxes highlighted key words and concepts chapter summaries self study questions and a comprehensive exam to help prepare for USMLEs Keeps you current with the latest concepts in vascular molecular and cellular biology as they apply to cardiovascular function thanks to molecular commentaries in each chapter Includes clear 2 color diagrams that simplify complex concepts Features clinical commentaries that show you how to apply what you ve learned to real life clinical situations Complete the Mosby Physiology Series Systems based and portable these titles are ideal for integrated programs Blaustein Kao Matteson Cellular Physiology and Neurophysiology Cloutier Respiratory Physiology Koeppen Stanton Renal Physiology Johnson Gastrointestinal Physiology

White Harrison Mehlmann Endocrine and Reproductive Physiology Hudnall Hematology A Pathophysiologic Approach Appendix Comprehensive MCQ review examination Keywords concepts Cardiovascular Physiology Robert M. Berne, Matthew N. Levy, 1997 This integrated and up to date textbook has been designed for health professional students studying the cardiovascular system for the first time It also serves as a review for advanced students house officers and physicians *Cardiovascular Physiology 8/E* David E. Mohrman, Lois Jane Heller, 2014-02-05 The best cardiovascular physiology text for USMLE and exam review Cardiovascular Physiology is a concise and enjoyable way for you to gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine Succinct but thorough it focuses on the facts and concepts you must know to get a solid big picture overview of how the cardiovascular system operates in normal and abnormal situations No other text will prove more valuable in enhancing your ability to evaluate the myriad new information you will be exposed to throughout your career than Cardiovascular Physiology FEATURES NEW Includes a Perspectives section in each chapter that identifies important unresolved issues Clarifies the details of physiologic mechanisms and their role in pathologic states Links cardiovascular physiology to diagnosis and treatment Summarizes key concepts at the end of each chapter Highlights must know information with chapter objectives Reinforces learning with study questions at the end of each chapter **Levick's Introduction to Cardiovascular Physiology** Neil Herring, David J. Paterson, 2018-04-17 A sound knowledge of cardiovascular physiology is fundamental to understanding cardiovascular disease exercise performance and many other aspects of human physiology Cardiovascular physiology is a major component of all undergraduate courses in physiology biomedical science and medicine and this popular introduction to the subject is intended primarily for these students A key feature of this sixth edition is how state of the art technology is applied to understanding cardiovascular function in health and disease Thus the text is also well suited to graduate study programmes in medicine and physiological sciences

Cardiovascular Physiology Robert M. Berne, Matthew N. Levy, 1977 Part of Mosby's successful monograph series CARDIOVASCULAR PHYSIOLOGY presents fundamental concepts clearly and concisely Students gain a solid understanding on how the cardiovascular system functions in both health and disease Throughout excellent illustrations and consistent pedagogical features focus student learning In addition the clinical commentaries help students apply what they've learned to real life clinical situations **Gross Physiology of the Cardiovascular System** Robert Anderson, 2012-02-07 A groundbreaking global overview of the mechanical function of the cardiovascular system as featured at the <http://cardiacoutput.info> website This text explains fundamental but often misunderstood concepts such as the unique hydraulic characteristics of the heart as a pump and the cardiovascular system the determinants of cardiac output the mechanism that maintains blood volume equilibrium between the systemic and pulmonary circuits and the primary contribution of the atria to circulation rate Distilled from decades of research and surgical experience by Dr Robert M Anderson a pioneer heart surgeon

biomedical inventor award winning professor and former Associate Dean of the University of Arizona College of Medicine the text is a far more explanatory and predictive account than the conventional model featured in many basic physiology textbooks with its often misleading focus on incomplete parameters such as preload afterload contractility and stroke rate times stroke volume

Cardiovascular Physiology David E. Mohrman, Lois Jane Heller, 2003 Provides students with a thorough grounding in those aspects of cardiovascular physiology that are crucial to understanding clinical medicine A perfect review for the USMLE Step 1 the Fifth Edition features updated sections on muscle contractile processes and membrane potential a new appendix with normal values for major cardiovascular variables and updated study questions and case presentations

Current Concepts in Cardiovascular Physiology Oscar B. Garfein, 1990 Current Concepts in Cardiovascular Physiology

Cardiovascular Physiology E-Book Achilles J. Pappano, Withrow Gil Wier, 2012-12-20 Cardiovascular Physiology gives you a solid understanding of how the cardiovascular system functions in both health and disease Ideal for your systems based curriculum this title in the Mosby Physiology Monograph Series explains how the latest concepts apply to real life clinical situations Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Get clear accurate and up to the minute coverage of the physiology of the cardiovascular system Master the material easily with objectives at the start of each chapter self study questions summaries and key words and concepts Grasp the latest concepts in vascular molecular and cellular biology as they apply to cardiovascular function thanks to molecular commentaries in each chapter Apply information to clinical situations with the aid of clinical commentaries and highlighted clinical vignettes throughout

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Cardiovascular System and Physical Exercise Victor L. Karpman, 1987-05-31 This book focuses on adaptation and control of the cardiovascular system along with myocardial and vascular reactions that provide the optimal blood flow under physical activity New information on the main hemodynamic values measured with the help of updated methods used in the research of heart and great vessels is described and a number of new parameters such as arterial impedance are introduced The information presented in this book is of value to research cardiologists experts in sports medicine and physiology as well as for physicians and physiologists connected with the use of muscular activity

Basic Cardiovascular Physiology Pasquale Pagliaro, Claudia Penna, Raffaella Rastaldo, 2022-09-01 This book focuses on established cardiovascular principles and highlights some of the progress achieved by recent research in the cardiovascular field The authors report the basic concepts related to the functioning of the cardiovascular system necessary for medical students to understand To foster learning in each chapter the fundamental

points are highlighted in italics and or bold In addition we have added boxes that contain some more detailed information about physiological mechanisms or clinical aspects are analyzed and described in greater detail The book describes the structure and function of the heart and vascular system for the reader to understand how the cardiovascular system responds in both health and disease The book conveys a unified vision of the function of the heart and the vascular system explaining the complexity of the system that goes far beyond the integrated connection between preload afterload and cardiac contractility The endothelium covers the internal part of the whole cardiovascular system therefore endothelial physiology is treated in several chapters Given the importance of coronary circulation in cardiac pathophysiology this special circulation is described in detail and enriched with the most up to date information Several paragraphs and boxes on clinical implications are dedicated to the principles of electrophysiology and the electrocardiogram A space is also dedicated to myocardial ischemia reperfusion injury and cardioprotective procedures The book is written in a linear and simple language without compromising the scientific rigor of the various topics covered

Medical Physiology Rodney Rhoades, David R. Bell, 2009

Now in its Third Edition this text clearly and concisely presents the physiological principles that are essential to clinical medicine Outstanding pedagogical features include Active Learning Objectives that emphasize problem solving applications of basic principles conceptual diagrams that help students visualize complex processes case studies Clinical Focus boxes and From Bench to Bedside boxes a comprehensive glossary and online USMLE style questions with answers and explanations This edition features a new Immunology and Organ Function chapter and a completely rewritten and reorganized cardiovascular section A companion Website will include the fully searchable text an interactive question bank case studies with practice questions animations of complex processes an image bank and links for further study

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