

FACTS ABOUT CARDIOVASCULAR SYSTEM

WHAT IS IT ?

The heart and circulatory system (also called the cardiovascular system) make up the network that delivers blood to the body's tissues.

With each heartbeat, blood is sent throughout our bodies, carrying oxygen and nutrients to all of our cells.

The circulatory system is composed of the heart and blood vessels, including arteries, veins, and capillaries.

Our bodies actually have two circulatory systems:

The pulmonary circulation is a short loop from the heart to the lungs and back again, and the systemic circulation (the system we usually think of as our circulatory system) sends blood from the heart to all the other parts of our bodies and back again.

Veins (blue)

A vein is an elastic blood vessel that transports blood from various regions of the body to the heart.

Superior vena cava

The superior vena cava (also known as the cava or cva) is a large diameter, yet short, vein that carries deoxygenated blood from the upper half of the body to the heart's right atrium.

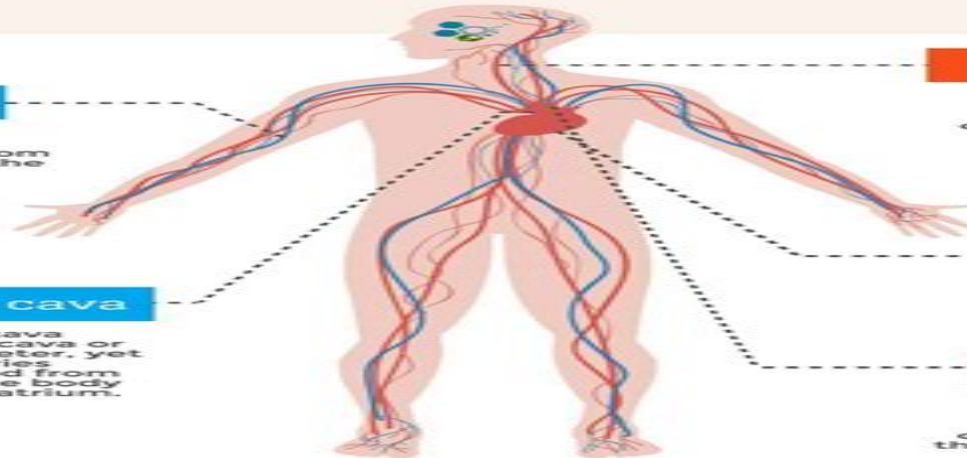
Arteries (red)

The arteries deliver the oxygen-rich blood to the capillaries where the actual exchange of oxygen and carbon dioxide occurs.

Heart

Aorta

It serves to supply them all with oxygenated blood. The aorta is the central conduit from the heart to the body.



THE HEART

The heart is one of the most important organs in the entire human body. It is really nothing more than a pump, composed of muscle which pumps blood throughout the body, beating approximately 72 times per minute of our lives.

The heart pumps the blood, which carries all the vital materials which help our bodies function and removes the waste products that we do not need.

For example, the brain requires oxygen and glucose, which, if not received continuously, will cause it to lose consciousness.

Aorta

Anterior Vena Cava

Semilunar Valve

Right Atrium

Right Ventricle

Posterior Vena Cava



Pulmonary Artery

Pulmonary Vein

Left Atrium

Atrioventricular Valve

Septum

Left Ventricle

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The Human Cardiovascular System Facts And Concepts

**Alvin P. Shapiro, Andrew S.
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The Human Cardiovascular System Facts And Concepts:

The Human Cardiovascular System John Thompson Shepherd, Paul M. Vanhoutte, 1979 **Heart Physiology** Lionel H. Opie, 2004 Thoroughly revised and updated this Fourth Edition is the only current book that integrates cellular and subcellular elements of cardiovascular physiology in the analysis of physiologic and pathophysiologic responses In straightforward terms with more than 600 diagrams and illustrations the book explains the key principles crucial to understanding how the cardiovascular system and its components function and malfunction For this edition Dr Opie has enlisted eight internationally eminent co authors and added a new chapter on cell signaling The chapters on physiology of the ECG and arrhythmias contain many more ECGs More than half of the illustrations including 12 color plates are new 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 *Cerebral oxygenation in health and disease* Patrice Brassard, Phil Neil Ainslie, Niels H Secher, 2015-03-26 Scientists and clinicians interested in cerebrovascular physiology in humans now have numerous possibilities to monitor invasively or non invasively the oxygenation status of cerebral tissue Monitoring cerebral oxygenation has several utilities to improve patient outcome to better understand the mechanisms underlying orthostatic hypotension to provide insight into functional neurovascular coupling to evaluate the influence of vasopressors on cerebral oxygen levels in patients under anesthesia and to study the limitations of exercise tolerance This themed research topic through theoretical and experimental papers covers new and exciting issues related to the study of cerebral oxygenation in health and disease This e book includes manuscripts inclusive of original research methodologies and reviews in the field of integrative physiology cognitive testing orthostatic stress exercise physiology and anesthesia **Behavioral Aspects of Cardiovascular Disease** Alvin P. Shapiro, Andrew S. Baum, Andrew S. Baum, 2014-05-12 Smoking diet stress coping and exercise among other behaviors and psychological states are now clearly implicated in the development of cardiovascular diseases Prevention based largely on altering behaviors that contribute to this chronic disease is now as important a goal as is treatment of those already afflicted This volume based on a recent meeting of the Academy of Behavioral Medicine Research addresses several important areas of research in the general area of cardiovascular disease

The topics covered reflect on important aspects of this phenomenon such as the long term development of coronary artery disease central nervous system CNS regulation of blood pressure heart rate and sympathetic tone playing a pivotal role in sympathetic activity and hypertension learned blood pressure modulation and baroreceptor activation as a means of reducing the aversiveness of stress or noxious stimulation and the notion that symptoms of heart disease or infarction may occur in the absence of organic heart disease Having been impressed by the recent advances in the field the editors of this book capture the wealth of newly acquired knowledge about behavioral factors in cardiovascular disease and how the body's nervous endocrine and cardiovascular systems work together

Cardiovascular Fluid Mechanics Gianni Pedrizzetti, Karl Perktold, 2014-05-04 The book presents the state of the art in the interdisciplinary field of fluid mechanics applied to cardiovascular modelling It is neither a monograph nor a collection of research papers rather an extended review in the field It is arranged in 4 scientific chapters each presenting thoroughly the approach of a leading research team two additional chapters prepared by biomedical scientists present the topic by the applied perspective This volume covers a wide range of the current topics in the field It is an advanced text however it derives from school lectures and presents several introductory portions to the advanced topics A unique feature is a substantial approx one fourth of the book medical introductory part written by clinical researchers for scientific readers that would require a large effort to be collected otherwise

Human Physiology Robert F. Schmidt, Gerhard Thews, 2012-12-06 This book first appeared in English in 1983 as a translation of the 20th Edition of the long established German textbook *Physiologie des Menschen* In this new English edition the text has been fundamentally rejuvenated to bring it up to date with the rapid advances in many areas of physiology and to incorporate many helpful suggestions from both readers and colleagues In its scope and didactic goals the book remains as we set forth in the Preface to the First Edition which follows First the content was substantially reorganized The general aspects of cell physiology and intercellular communication which underlie the functions of all organs were extracted from the various chapters and brought together in a separate introductory section We are most grateful to our colleague J DUDEL for undertaking this task The second step was to make the text more concise in several places for instance the motor and somatovisceral systems previously occupied two chapters and have now been condensed into one By these processes of condensation and distillation of the passages on general cell physiology space was made for the necessary additions and expansions with only a slight change in the overall length of the book

Autonomic Nerves Linda Wilson-Pauwels, Patricia A. Stewart, Elizabeth J. Akesson, 2016-12-28 *Autonomic Nerves* authored by the same team that created *Cranial Nerves* provides an easy to follow format designed to make learning about autonomic nerves easier Teachers students and practitioners will find vibrant illustrations integrated with text Presented in two parts the first describes the structure and function of the autonomic nerves The second part addresses autonomic control of individual organ systems in a problem based learning format Throughout the text *Autonomic Nerves* describes afferent pathways integrating structures

and mechanisms efferent pathways and the autonomic effectors Principles of autonomic neurotransmission are also discussed

EDHF Michel Feletou, Paul Vanhoutte, 2005-11-02 The advances made in vascular biology in the last 25 years have considerably changed the perception that one could have of the endothelial cells Once considered as a diffusion barrier preventing the access of the blood cells to the vascular matrix the endothelium is now recognized as playing a major role in the control of blood fluidity platelet aggregation and vascular tone but also in immunology inflammation angiogenesis and for serving as a metabolizing and an endocrine organ from the preface Cardiovascular diseases so prevalent in the Western world during the twentieth century could well become the scourge of the twenty first century in emerging countries as well as the West Endothelial dysfunction linked to an imbalance in the synthesis and or release of contracting and relaxing factors is often evoked to explain the initiation of the cardiovascular pathology or its development and perpetuation Two decades ago when nitric oxide was demonstrated to mediate endothelium dependent relaxations the vascular world seemed convinced that nitric oxide was the ultimate and sole explanation for such relaxations However not everyone agreed EDHF The Complete Story is the work of two leading researchers who did not accept that simple conclusion but instead continued to search along with others for a deeper understanding of the ways in which endothelial cells communicate with the underlying smooth muscle to signal it to hyperpolarize Now with most if not all of those ways uncovered the authors offer this summary as way of bringing closure to the quest This monograph reports on the work of many researchers It summarizes the significant recent discoveries concerning endothelium dependent hyperpolarizations which are likely to play a much more important role in cardiovascular physiology and pathology than was originally foreseen Extensively illustrated with original diagrams and schematics that summarize the different steps of endothelium dependent hyperpolarization the text is designed for vascular biologists and cardiologists as well as graduate students looking to gain an understanding of the intimate functioning of the blood vessel wall

Radioiodination: Theory, Practice, and Biomedical Applications Mrinal K. Dewanjee, 2012-12-06 Among the readily available emitting radionuclides the nuclides of iodine have the greatest versatility in labeling both the hydrophilic and the lipophilic compounds that are used in biology and medicine Biologically important micromolecules semimacromolecules and macromolecules have been identified which after iodination almost maintain the same molecular configuration and similar biologic specificity as those of the parent molecules The multiple techniques for iodination and the clinical use of iodinated products have made possible the present status of the development of diagnostic nuclear medicine ^{125}I with a half life of 60 days has a crucial role in competitive protein binding studies ^{131}I is useful for measuring thyroid uptake for the diagnosis of thyroid carcinoma and metastasis and for therapy ^{124}I with a reasonably shorter half life is almost ideal for thyroid workup and for a few useful labeled radiopharmaceutical Although ^{125}I is used more widely in diagnostic procedures the radionuclides of iodine will always have a major role in biology and medicine A considerable amount of information is scattered in the literature regarding the chemistry of radioiodination and the

mechanism of tracer localization in cells and tissues Labeled peptides proteins and antibodies are extensively used for protein turnover studies receptor binding and tumor imaging studies and radioimmunoassay The general trend in the use of tracers in clinical nuclear medicine has been an evolution from ^3H ^{14}C ^{11}C and ^{13}C to ^{125}I ^{131}I and ^{123}I to $^{99\text{m}}\text{Tc}$ and ^{111}In

Modulation of Neurochemical Transmission E. S. Vizi, 2013-10-22 Modulation of Neurochemical Transmission Volume II documents the proceedings of the 3rd Congress of the Hungarian Pharmacological Society held in Budapest 1979 It provides a summary of biochemical electrophysiological morphological and pharmacological findings on the modulation of transmitter release The 45 papers contained in this volume come from the most important laboratories and the contributors are among the world's foremost experts Key topics discussed include the presynaptic inhibition of neurotransmitters the properties of pre and postsynaptic receptors histochemical mapping of dopamine neurons in the olfactory brain neurophysiological aspects of dopaminergic supersensitivity the role of ATPases in neurochemical transmission and interaction between noradrenaline and vanadium on brain membrane ATPase Also presented are papers on neurotransmission in the rat portal vein the function of cysteine metabolism in rat brain presynaptic dopamine receptors in sympathetic heart nerves of cats LSD induced behavioral effects in rats and modulation of posttetanic response in the guinea pig ileum

Studies Of Cellular Functions Using Radiotracers (1982) Mervyn W Billingham, 2017-11-22 This volume is the result of the concerted effort of a number of scientists to summarize in a succinct way the current understanding of the mechanisms of these localizations The editors of the book gratefully acknowledge this combined effort **Lumb and Jones'**

Veterinary Anesthesia and Analgesia William J. Tranquilli, John C. Thurmon, Kurt A. Grimm, 2013-05-31 Lumb Jones is the definitive reference in veterinary anesthesia and analgesia covering all large and small animal species and a full array of clinical conditions and diseases This new edition is greatly expanded and revised an essential and comprehensive text for anyone with a special interest in animal anesthesia and analgesia The ever increasing importance of pain management is highlighted by new chapters on pain physiology analgesic medications acupuncture physical rehabilitation and palliative analgesia and most noticeably is reflected in the book's new title Lumb Jones Veterinary Anesthesia and Analgesia This edition brings together over 65 authors offering a wide breadth and depth of expertise with contributions from anesthesiologists pharmacologists surgeons criticalists internists and other clinical specialists Extensive species chapters span the range of small and large animals including expanded coverage of laboratory exotic and zoo animal species aquatic mammals and fish Later chapters provide detailed coverage of important considerations for specific diseases and types of patients and procedures including new chapters on the anesthetic management of dental cancer orthopedic and equine colic patients Preliminary sections cover the general principles of anesthesia physiology and pharmacology equipment and monitoring and anesthetic and analgesic techniques New edition of the definitive reference in veterinary anesthesia Expanded focus on pain management Written by international team of experts including more than 65 contributing authors

Covers anesthesia management of domestic and wild species and full array of clinical conditions and diseases **Veterinary Anesthesia and Analgesia** Kurt A. Grimm, Leigh A. Lamont, William J. Tranquilli, Stephen A. Greene, Sheilah A. Robertson, 2015-05-11 Veterinary Anesthesia and Analgesia the Fifth Edition of Lumb and Jones is a reorganized and updated edition of the gold standard reference for anesthesia and pain management in veterinary patients Provides a thoroughly updated edition of this comprehensive reference on veterinary anesthesia and analgesia combining state of the art scientific knowledge and clinically relevant information Covers immobilization sedation anesthesia and analgesia of companion wild zoo and laboratory animals Takes a body systems approach for easier reference to information about anesthetizing patients with existing conditions Adds 10 completely new chapters with in depth discussions of perioperative heat balance coagulation disorders pacemaker implantation cardiac output measurement cardiopulmonary bypass shelter anesthesia and pain management anesthetic risk assessment principles of anesthetic pharmacology and more Now printed in color with more than 400 images *Physiologie des Menschen* R.F. Schmidt, G. Thews, 2013-12-11 **Essentials of Small Animal Anesthesia and Analgesia** Kurt A. Grimm, William J. Tranquilli, Leigh A. Lamont, 2011-11-16 Essentials of Small Animal Anesthesia and Analgesia Second Edition presents the fundamentals of managing small animal anesthesia patients in a clinically relevant accessible manual The bulk of the book is distilled from Lumb and Jones Veterinary Anesthesia and Analgesia to provide authoritative information in a quick reference format with references to Lumb and Jones throughout for easy access to further detail Logically reorganized with an easy to use structure and an increased focus on pain management this new edition features new chapters on equipment and managing specific conditions The Second Edition has been updated to reflect current practices in anesthesia and analgesia and a new companion website offers review questions and answers video clips and an image bank with additional figures not found in the printed book Essentials of Small Animal Anesthesia and Analgesia Second Edition provides veterinary care providers and students with key information on anesthetic and analgesic pharmacology physiology patient assessment and clinical case management *Advanced Cardiovascular Exercise Physiology* Denise L. Smith, Bo Fernhall, 2011 Advanced Cardiovascular Exercise Physiology details the effect of acute and chronic exercise training on each component of the cardiovascular system and how those components adapt to and benefit from a systematic program of exercise training **Sudden Cardiac Death [proceedings]**, 1984 Arterial and Venous Systems in Essential Hypertension Michel Emile Safar, 2012-12-06 The hemodynamic mechanisms of hypertension are often limited to the study of three dominant parameters blood pressure cardiac output and vascular resistance Accordingly the development of hypertension is usually analyzed in terms of a struggle between cardiac output and vascular resistance resulting in the classical pattern of normal cardiac output and increased vascular resistance thus indicating a reduction in the caliber of small arteries However during the past years the clinical management of hypertension has largely modified these simple views While an adequate control of blood pressure may be obtained with antihypertensive drugs arterial

complications may occur involving mainly the coronary circulation and suggesting that several parts of the cardiovascular system are altered in hypertension. Indeed, disturbances in the arterial and the venous system had already been noticed in animal hypertension. The basic assumption in this book is that the overall cardiovascular system is involved in the mechanisms of the elevated blood pressure in patients with hypertension: not only the heart and small arteries but also the large arteries and the venous system. For that reason, the following points are emphasized: First, the cardiovascular system in hypertension must be studied not only in terms of steady flow but also by taking into account the pulsatile components of the heart and the arterial systems. Second, arterial and venous compliances are altered in hypertension and probably reflect intrinsic alterations of the vascular wall.

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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