

HANDBOOK OF PHYSIOLOGY

SECTION 2

THE CARDIOVASCULAR SYSTEM

VOLUME 1

THE HEART



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Handbook Of Physiology Section 2 The Cardiovascular System

**Richard J. Davidson, Gary E.
Schwartz, David Shapiro**



Handbook Of Physiology Section 2 The Cardiovascular System:

Handbook of Physiology. Section 2 R. M. Berne,1979 **Cardiovascular Physiology** Evelyn M. Scott,1986

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 **Handbook of Physiology** ,1984 *Handbook of Physiology* ,1984 **Berne & Levy Principles of Physiology E-Book** Matthew N. Levy,Bruce M. Koeppen,Bruce A. Stanton,2005-09-09 Here s a succinct up to date summary of the physiological processes that take place in the human body written in a straightforward and easy to understand manner Derived from Berne et al s more lengthy text Physiology 5th Edition it concisely and efficiently covers all of the most need to know concepts in the field Updates include discussions of how the most recent findings in molecular biology and genetics affect our knowledge of physiology A wealth of case examples full color artwork review questions with answers and boxes tables and graphs help readers to easily and thoroughly master the material The smart way to study Elsevier titles with STUDENT CONSULT will help you master difficult concepts and study more efficiently in print and online Perform rapid searches Integrate bonus content from other disciplines Download text to your handheld device And a lot more Each STUDENT CONSULT title comes with full text online a unique image library case studies USMLE style questions and online note taking to enhance your learning experience Provides shaded clinical boxes to demonstrate abstract concepts relevance to human physiological phenomena Offers case examples that show how physiological processes respond to various stimuli or to pathological processes Delivers hundreds of full color illustrations that make complex physiological principles easy to grasp quickly Includes abundant graphs figures and tables that display information at a glance Presents review questions and answers that allow readers to evaluate their comprehension Incorporates a great deal of new information on how new discoveries in molecular biology and genetics affect our understanding of human physiology Includes access to www.studentconsult.com with the full text of the book online integration links to relevant material from other STUDENT CONSULT texts online self assessment activities a community center and other valuable features *Electrophysiological Foundations of Cardiac Arrhythmias, Second Edition* Andrew L. Wit,Penelope A. Boyden,Mark E. Josephson,Hein J. Wellens,2020-05-01 Now in an abridged second edition *Electrophysiological Foundations of Cardiac Arrhythmias* focuses on teaching the fundamental concepts of cardiac cellular electrophysiology with an emphasis on the relationship of basic mechanisms to clinical cardiac arrhythmias Understanding this relationship and the electrophysiological mechanisms underlying arrhythmogenesis will be invaluable to physicians entering the fields of cardiology and clinical electrophysiology as well as those scientists and clinicians already working in these areas These essential concepts of electrophysiology include discussion on action potentials ion channels and currents

and mechanisms of arrhythmias and provide the working knowledge that will enable the reader to approach a board exam confidently. Additionally, the authors build a base of understanding that will prepare the reader for more advanced texts such as Josephson's Clinical Cardiac Electrophysiology Techniques and Interpretations.

Physiology and Pathophysiology of the Heart Nicholas Sperelakis, 2012-12-06. The first edition of this book was quite successful. As in the first edition, the book is divided into two major sections: cardiac muscle and coronary circulation. Several complimentary book reviews appeared soon after the first edition was published, and written words of praise and appreciation were given both to the publisher and to me by quite a few individuals. Thus, the book attempts to integrate all relevant aspects of the factors influencing the function of the heart as a vital organ under normal and various abnormal conditions. The book, taking over a year to complete, also attempts to set the foundation for an understanding of the action and mechanism of action of a number of classes of cardioactive drugs.

Electrophysiological Foundations of Cardiac Arrhythmias Andrew L. Wit, MD, PhD, Hein J. Wellens, MD, Mark E. Josephson, MD, 2017-05-01.

Cardiovascular Mechanobiology, 2nd edition Markus Hecker, Dirk J. Duncker, 2023-07-18. Biomechanical forces play a major role in organ development, shape, and function. When exceeding the physiological range, however, they may become detrimental for organ structure and function. This is probably best exemplified by the cardiovascular system, with both the heart and blood vessels being continuously exposed to the biomechanical forces exerted by the flow of blood. In the heart, it is the build-up of pressure inside the ventricles that allows the ejection of blood into the pulmonary and systemic circulation. The luminal diameter of the small arteries in both parts of the circulation determines the resistance to flow. Hence, it also determines the level of blood pressure in both the pulmonary and systemic circulation, and thus the afterload for both ventricles of the heart. A narrowing of the small arteries, e.g., due to an increase in tone, therefore leads to an increase in blood pressure in the affected part of the circulation. This will decrease organ perfusion but increase the afterload for the corresponding ventricle of the heart. Consequently, the affected ventricle must build up more pressure to maintain cardiac output. However, if the rise in blood pressure, pulmonary or arterial hypertension, persists, the increase in wall tension can no longer be compensated by active constriction, thereby forcing the ventricle to resort to other means to unload itself. Typically, this is achieved by structural alterations in its wall, which becomes thicker (hypertrophy) and stiffer (remodelling of the extracellular matrix). Ultimately, this maladaptive response may lead to dysfunction and eventually failure of the ventricle, which would only be able to eject a significantly smaller amount of blood into circulation. The increase in wall tension has resulted in an increased stretching of the cardiomyocytes as well as non-cardiomyocytes.

such as cardiac fibroblasts which in turn alters both their phenotype and their environment Research into the mechanobiology of the heart aims to unravel the molecular and cellular mechanisms underlying the physiological response of the heart to load to learn what goes wrong when the heart is faced with sustained pressure overload This may pave the way to therapeutically interfering with this maladaptive response and thus preventing either the initial hypertrophy or its transition into heart failure While the heart is mainly subjected to pressure hence stretch as a biomechanical force the mechanobiology of vascular cells is somewhat more complex Endothelial cells lining the luminal surface of each blood vessel are continuously subjected to the viscous drag of flowing blood referred to as fluid shear stress Fluid shear stress mainly affects the endothelial cells of the small arteries and arterioles maintaining them in a dormant phenotype If blood flow is disturbed e g at arterial bifurcations or curvatures fluid shear stress declines and may give rise to a shift in phenotype of the endothelial cells A shift from anti inflammatory to pro inflammatory in combination with the reduced flow at these sites may enable leukocyte recruitment and diapedesis which results in a pro inflammatory response in the vessel wall Endothelial cells and in particular vascular smooth muscle cells are subjected to another biomechanical force the blood pressure Volume dependent distention of the vessel wall which can be achieved through an increase in blood flow results in an increase in wall tension thereby stretching of the endothelial and smooth muscle cells Like the cardiomyocytes of the heart the vascular smooth muscle cells of the small arteries and arterioles try to normalise wall tension by active constriction which cannot be maintained for long These cells subsequently undergo hypertrophy or hyperplasia depending on the size of the blood vessel and remodel the extracellular matrix so that the vessel wall also becomes thicker and stiffer This in turn raises their resistance to flow and may contribute to the increase in blood pressure in either the pulmonary or systemic circulation Research into the mechanobiology of the blood vessels aims to unravel the molecular and cellular mechanisms underlying the physiological response of the vascular cells to pressure wall tension and flow shear stress It also aims to uncover what goes wrong e g in arteriosclerosis or hypertension and to eventually specifically interfere with these maladaptive remodelling processes The aforementioned aspects of cardiovascular mechanobiology along with many more facets of this fascinating timely and highly clinically relevant field of research are addressed by the original research and review articles within this Research Topic

Sabiston and Spencer's Surgery of the Chest E-Book Frank Sellke, Pedro J. del Nido, Scott J. Swanson, 2009-12-16 Through seven successful editions Sabiston Spencer Surgery of the Chest has set the standard in cardiothoracic surgery references Now the new 8th Edition edited by Frank W Sellke MD Pedro J del Nido MD and Scott J Swanson MD carries on this tradition with updated coverage of today's essential clinical knowledge from leaders worldwide Guidance divided into three major sections Adult Cardiac Surgery Congenital Heart Surgery and Thoracic Surgery lets you quickly find what you need while new and revised chapters reflect all of the important changes within this rapidly evolving specialty Expert Consult functionality new to this edition enables you to access the complete contents of the 2 volume set

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Central Regulation of Autonomic Functions Arthur D. Loewy, K. Michael Spyer, 1990-06-07 This unique text relates the dramatic advances of modern neurobiology to our understanding of the structure and function of the autonomic nervous system providing a clear view of the central neuronal components involved in autonomic control The scope is wide ranging from anatomical pathways and molecular pharmacology to the perceptual qualities of autonomic sensation and their potential in modifying behavior Essential background information is reviewed and the most recent research discussed in a readable informative manner The text is richly illustrated The first six chapters offer a comprehensive review of the system s anatomy physiology and pharmacology emphasizing the organization and control of the autonomic preganglionic neurons and the complexity of central pathways Later chapters review the autonomic control of cardiovascular sexual urinary endocrine and other functions Written by an international group of distinguished scientists this work is a valuable resource for clinicians scientists and graduate students in the fields of anatomy physiology pharmacology and neuroscience Recent Advances in Coronary Circulation Yukio Maruyama, Fumihiko Kajiya, Julien I.E. Hoffman, Jos Spaan, 2012-12-06 Coronary circulation research is advancing at a rapid rate Not only are innovative techniques for studying myocardial perfusion being developed new mechanisms related to coronary blood flow control and mechanics are also being discovered The progress in this field justifies an update in the form of this new monograph The book is divided into the following sections Measurement of Coronary Blood Flow and Assessment of Myocardial Perfusion discusses advances in perfusion measurements in humans as well as nonradioactive microsphere methods Coronary Flow Dynamics elucidates the effect of heart contraction on coronary flow perfusion and reserve distribution as well as systolic diastolic interaction Models a frequent topic of debate are used to quantify hypotheses Models of Coronary Circulation attempts to elucidate the concept of tissue pressure Regulatory

Mechanisms of Coronary circulation and its Clinical Relevance Numerous mechanisms affecting coronary flow have been defined and studied at the level of isolated vessels and whole organs The chapters in this section provide an in depth analysis of a selection of these mechanisms and their inter actions Pathophysiology of Coronary Circulation in Ischemic Heart Disease considers important aspects of factors which restrict perfusion of the myocardium in ischemic heart disease An understanding these factors is of crucial importance in the management of patients Small Vessel Disorder in Coronary Circulation describes circulatory flow and how it can be influenced by drugs

Inhalation Aerosols Anthony J. Hickey,1996-06-07 This unique reference integrates the theory and practical use of aerosols in inhalation therapy into a single resource presenting the physical chemistry of formulation the physics of aerosol generation aerodynamic behavior and therapeutic implications Offers up to date techniques for droplet and particle generation including air blast and ultrasonic nebulizers propellant driven metered dose inhalers dry powder inhalers and electrospray systems

Differential Psychophysiology: Persons in Situations Gerhard Stemmler,2012-12-06 Those interested in the relationships between psychological and physiological functions will again and again be impressed by the fact that great individual differences and large situational variability are manifested in psychophysiological data Psychophysiology from a differential perspective has been an enduring theme throughout the history of personality and temperament research However the present book is the first to bear the word differential in its title Actually this monography is not only concerned with psychophysiological personality research but with a much broader program of systematic investigation Multivariate research methodology permits one to operationalize physiological response profiles both with regard to lasting differences between persons and the discrimination of situations In order to determine functional relationships between person characteristics and situational demands that is to determine the processes of stimulus response mediation one first needs to systemize these various sources of variance in assessment models and subsequently partition the observed covariance A series of the author s own investigations in the Hamburg and Freiburg laboratories shows just how fruitful this research approach can be

Essential Hypertension and Its Causes Paul I. Korner,2007-05-11 Essential hypertension EH is the most common type of high blood pressure and is responsible for much death and serious illness which has been the reason for the huge research effort to determine its causes However countless scientific articles still keep proclaiming that the causes of essential hypertension remain unknown In view of the number of publications that descend on the hypertension specialist like a waterfall such proclamations seem to overlook the considerable amount of knowledge that we already have about the etiology of EH The problem may be a lack of synthesis rather than a lack of information This book brings together some of this knowledge into a coherent and clinically relevant account about the pathogenesis of EH With an extremely broad reach this book aims to give a balanced view of the causes of EH its neural genetic and environmental causes

The Resistance Vasculature John A. Bevan,William Halpern,Michael J. Mulvany,2012-12-06 Resistance arteries have been recognized for some time as key factors

in the regulation of vascular flow resistance where they determine the regional and local distribution of blood and arterial pressure Chapters provide an overview of the physiological biochemical and electrophysiological characteristics of these vessels as well as a critical evaluation of the methodologies for studying small arteries and an examination of the membrane and neural mechanisms involved in the control of vascular tone

Consciousness and Self-Regulation Richard J. Davidson, Gary E. Schwartz, David Shapiro, 2013-11-11 In the Preface to the third volume we described the evolution of this Series and the changes that have taken place in the field since the first volume appeared The contents of the current volume continue the commitment to a broadly based perspective on research related to consciousness and self regulation which was embodied in the previous three volumes Chapters are included which consider the role of consciousness in cognitive theory and clinical phenomena Several of the contributions to this volume are concerned with the nature of self regulation and the role of conscious processing in the mediation of self regulated behavior Most of the authors adopt a psychobiological approach to their subject matter Our selection of contributors with a bias toward this approach reflects our own views that the psychobiological approach is a very fruitful one and that the architecture of the nervous system places important constraints on the types of theories that are possible in this emerging area While the subject matter of the chapters in this volume is quite diverse the contributions are united by their emphasis on the importance of consciousness and or self regulation in the understanding of behavior and experience We have selected what we believe is representative of the best theory and research in the diverse areas which bear on the theme of this series maintaining a balance between basic and clinical research

Clinical and Methodological Issues in Cardiovascular Psychophysiology Andrew Steptoe, H. Rüddel, H. Neus, 2012-12-06 Based on a Meeting Held in May 1984 in Linz Federal Republic of Germany

Intensive Care Medicine Jean-Louis Vincent, 2007-10-29 The Update compiles the most recent developments in experimental and clinical research and practice in one comprehensive reference book The chapters are written by well recognized experts in the field of intensive care and emergency medicine It is addressed to everyone involved in internal medicine anesthesia surgery pediatrics intensive care and emergency medicine

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