

Read Book Study Guide For The Cardiovascular System Pdf For Free

Cardiovascular System: Key Concepts May 11 2021 This book presents a detailed analysis of the key concepts in cardiovascular system. The cardiovascular system consists of the heart located centrally in the thorax and the vessels of the body which transport blood. The cardiovascular (or circulatory) system supplies oxygen from the air that we inspire, via the lungs to the tissues around the body. It is also responsible for the removal of carbon dioxide via the air that we expire from the lungs. It also supplies the nutrients like amino acids, electrolytes, enzymes, hormones that are important for cellular respiration, immunity and metabolism. The book contains selected information contributed by veterans in this field which describes the latest developments in general and clinical sciences. It covers topics under Clinical Impact of Cardiovascular Physiology and Pathophysiology.

Cardiovascular Physiology Dec 26 2019 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. 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; and a multiple-choice review exam to help prep for USMLEs. 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. Access the fully searchable text and downloadable images online at www.studentconsult.com!

Dynamics Of The Vascular System: Interaction With The Heart (Second Edition) Nov 28 2022 The first edition of the book was written employing mathematical techniques to formulate the physical principles involved in the structural and functional correlates of the underlying physiology. This current and self-contained second edition updates many of the new findings since its first edition a decade ago. It also includes a new chapter on the 'Interaction with the Heart'. The dynamics of the arterial system, the venous system, the microcirculation and their interaction with the heart are quantitatively described in terms of their structures and functions. Clinical measurements, applications to the cardiovascular field and physiological mechanisms are clearly identified throughout the text. Most importantly, worked examples are provided, such that the readers can appreciate the application aspects of the underlying formulation.

Hearts & Arteries Dec 18 2021

The Circulatory System Apr 09 2021 Examines the role and function of the human circulatory system.

The Cardiovascular System May 03 2023 Examines the parts and function of the cardiovascular system, including information on diseases and injuries.

A Complete Book on Cardiovascular System for Homeopaths Jan 25 2020 From the vast ocean of the cardiovascular system Dr Rajat Chattopadhyay picked up those diseases, which are found on the homeopathic syllabus. A homeopath should have knowledge about the diseases of the cardiovascular system to know properly the scope and limitations.

Imaging of the Cardiovascular System, Thorax, and Abdomen Jul 01 2020 Magnetic resonance imaging (MRI) is a technique used in biomedical imaging and radiology to visualize internal structures of the body. Because MRI provides excellent contrast between different soft tissues, the technique is especially useful for diagnostic imaging of the brain, muscles, and heart. In the past 20 years, MRI technology has improved significantly with the introduction of systems up to 7 Tesla (7 T) and with the development of numerous post-processing algorithms such as diffusion tensor imaging (DTI), functional MRI (fMRI), and spectroscopic imaging. From these developments, the diagnostic potentialities of MRI have improved impressively with an exceptional spatial resolution and the possibility of analyzing the morphology and function of several kinds of pathology. Given these exciting developments, the Magnetic Resonance Imaging Handbook: Imaging of the Cardiovascular System, Thorax, and Abdomen is a timely addition to the growing body of literature in the field. Offering comprehensive coverage of cutting-edge imaging modalities, this book: Discusses MRI of the heart, blood vessels, lungs, breasts, diaphragm, liver, gallbladder, spleen, pancreas, adrenal glands, and gastrointestinal tract Explains how MRI can be used in vascular, posttraumatic, postsurgical, and computer-aided diagnostic (CAD) applications Highlights each organ's anatomy and pathological processes with high-quality images Examines the protocols and potentialities of advanced MRI scanners such as 7 T systems Includes extensive references at the end of each chapter to enhance further study Thus, the Magnetic Resonance Imaging Handbook: Imaging of the Cardiovascular System, Thorax, and Abdomen provides radiologists and imaging specialists with a valuable, state-of-the-art reference on MRI.

The Circulatory System Jun 11 2021 Discusses what the circulatory system is, how it works, and how it responds to exercise and hemorrhage.

Cardiovascular System Oct 16 2021

The Cardiovascular System Jan 07 2021

The Circulatory Story May 23 2022 Humorous text paired with comic illustrations, brings anatomy and science of the body

to life for young readers in this exploration of the circulatory system. From the author and illustrator of THE QUEST TO DIGEST comes another playful way to learn about the body and its inner workings. Readers follow a red blood cell on its journey through the heart, lungs, veins, arteries, capillaries, and more, as they see how the body combats disease, performs gas exchanges, and fights plaque. This whimsical glimpse into the human body is fun and informative, perfect for the classroom or the home, and is sure to please the most curious of readers.

Crash Course Cardiovascular System Updated Edition - E-Book Feb 05 2021 Crash Course – your effective every day study companion PLUS the perfect antidote for exam stress! Save time and be assured you have all the core information you need in one place to excel on your course and achieve exam success. A winning formula now for over 15 years, each series volume has been fine tuned and fully updated, with an improved layout tailored to make your life easier. Especially written by senior medical students or recent graduates – those who have just been in the exam situation – with all information thoroughly checked and quality assured by expert faculty advisers, the result are books which exactly meet your needs and you know you can trust. Commencing with 'Learning Objectives', every chapter guides you succinctly through the topic, giving full coverage of the curriculum whilst avoiding unnecessary and often confusing detail. Cardiovascular disease is the leading cause of death in the western world and a common cause of hospital admission. This highly accessible guide to the cardiovascular system highlights all the essential information to provide an invaluable foundation for application to clinical practice in this most fundamental of medical specialties. Almost 160 illustrations present clinical, diagnostic and practical information in an easy-to-follow manner Friendly and accessible approach to the subject makes learning especially easy Written by students for students - authors who understand exam pressures Contains 'Hints and Tips' boxes, and other useful aide-mémoires Succinct coverage of the subject enables 'sharp focus' and efficient use of time during exam preparation Contains a fully updated self-assessment section - ideal for honing exam skills and self-testing Self-assessment section fully updated to reflect current exam requirements Contains 'common exam pitfalls' as advised by faculty Crash Courses also available electronically! Online self-assessment bank also available - content edited by Dan Horton-Szar! Now celebrating over 10 years of success - Crash Course has been specially devised to help you get through your exams with ease. Completely revised throughout, the new edition of Crash Course is perfectly tailored to meet your needs by providing everything you need to know in one place. Clearly presented in a tried and trusted, easy-to-use, format, each book in the series gives complete coverage of the subject in a no-nonsense, user-friendly fashion. Commencing with 'Learning Objectives', each chapter guides you succinctly through the topic, giving full coverage of the curriculum whilst avoiding unnecessary and often confusing detail. Each chapter is also supported by a full artwork programme, and features the ever popular 'Hints and Tips' boxes as well as other useful aide-mémoires. All volumes contain an up-to-date self-assessment section which allows you to test your knowledge and hone your exam skills. Authored by students or junior doctors - working under close faculty supervision - each volume has been prepared by someone who has recently been in the exam situation and so relates closely to your needs. So whether you need to get out of a fix or aim for distinction Crash Course is for you!!

Structure and function of the cardiovascular system Apr 21 2022

The Cardiovascular System in Health and Disease Sep 26 2022 In this textbook, basic aspects of the cardiovascular system in health and disease are described in relation to a series of 30 case descriptions. This style of presentation mirrors that required for the new medical curriculum, as recommended by the General Medical Council. The clinical relevance of preclinical knowledge is immediately made apparent to the student by its description as applied to the clinical cases. Contents: Patient Oriented Teaching Cardiac Arrest Intermittent Cardiac Arrest Acute Left Ventricular Failure Chronic Left Ventricular Failure Oedema (2 Cases) Dilated Cardiomyopathy Hypertrophic Cardiomyopathy Restrictive Cardiomyopathy Non-cardiac Chest Pain Stable Angina Unstable Angina Acute Myocardial Infarction Ventricular Arrhythmia Junctional Arrhythmia Atrial Fibrillation Mitral Stenosis Mitral Prolapse and Regurgitation Aortic Valve Disease and Infective Endocarditis Pulmonary Stenosis Atrial Septal Defect Ventricular Septal Defect Tetralogy of Fallot Systolic Hypertension Hypertension in Youth — Aortic Coarctation Secondary Hypertension Primary Hypertension Malignant Hypertension Varicose Veins, Deep Vein Thrombosis and Pulmonary Embolism Pericarditis and Pericardial Effusion Readership: Medical undergraduates.

Regulation of Tissue Oxygenation, Second Edition Aug 26 2022 This presentation describes various aspects of the regulation of tissue oxygenation, including the roles of the circulatory system, respiratory system, and blood, the carrier of oxygen within these components of the cardiorespiratory system. The respiratory system takes oxygen from the atmosphere and transports it by diffusion from the air in the alveoli to the blood flowing through the pulmonary capillaries. The cardiovascular system then moves the oxygenated blood from the heart to the microcirculation of the various organs by convection, where oxygen is released from hemoglobin in the red blood cells and moves to the parenchymal cells of each tissue by diffusion. Oxygen that has diffused into cells is then utilized in the mitochondria to produce adenosine triphosphate (ATP), the energy currency of all cells. The mitochondria are able to produce ATP until the oxygen tension or PO₂ on the cell surface falls to a critical level of about 4–5 mm Hg. Thus, in order to meet the energetic needs of cells, it is important to maintain a continuous supply of oxygen to the mitochondria at or above the critical PO₂. In order to accomplish this desired outcome, the cardiorespiratory system, including the blood, must be capable of regulation to ensure survival of all tissues under a wide range of circumstances. The purpose of this presentation is to provide basic information about the operation and regulation of the cardiovascular and respiratory systems, as well as the properties of the blood and parenchymal cells, so that a fundamental understanding of the regulation of tissue oxygenation is achieved.

Clinical Application of Computational Mechanics to the Cardiovascular System Mar 09 2021 Vascular diseases, particularly

atherosclerosis, are the most frequent and critical underlying fatal disorders in the industrialized world. Cardiovascular deaths are the leading cause of death in the Western world. Although cancer or malignant neoplasms recently have topped the list of causes of deaths in Japan, cardiovascular and cerebrovascular diseases bring about more deaths than cancer if they are reclassified into a unified category of diseases of the vascular system. The National Cardiovascular Center was established by the Ministry of Health and Welfare of Japan to combat cardiovascular and cerebrovascular diseases. Since the Center was opened, we have continued to support basic and clinical studies of cardiovascular and cerebrovascular diseases within as well as outside the Center. Clinical studies that we have supported in modern diagnostic and therapeutic measures against cardio- and cerebrovascular diseases have made remarkable advances in recent years, especially in medical imaging technology including CT and MRI, and in interventional measures including balloon angioplasty and other catheter-based treatments. We are proud of the significant improvement in the overall survival rate and the quality of life of patients suffering from vascular disorders. However, there are still many essential difficulties remaining in the diagnosis and treatment of vascular disorders. Such difficulties necessitate further fundamental studies not only from the practical aspect but also from the integrated perspectives of medicine, biology, and engineering.

The Cardiovascular System E-Book Apr 02 2023 This is an integrated textbook on the cardiovascular system, covering the anatomy, physiology and biochemistry of the system, all presented in a clinically relevant context appropriate for the first two years of the medical student course. One of the seven volumes in the Systems of the Body series. Concise text covers the core anatomy, physiology and biochemistry in an integrated manner as required by system- and problem-based medical courses. The basic science is presented in the clinical context in a way appropriate for the early part of the medical course. There is a linked website providing self-assessment material ideal for examination preparation.

Cardiovascular Physiology E-Book Dec 06 2020 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.

Cardiovascular system Jan 19 2022

Infections and the Cardiovascular System Aug 02 2020 Infectious agents have been recognized to involve the heart and vascular system for well over a century. Traditional concepts and teachings of their involvement in the pathogenesis of disease have been by a few established mechanisms. Since the last decade of the 20th century there has been renewed interest in the medical and public media on infectious diseases affecting the cardiovascular and cerebrovascular systems, through their relationship with the development of acceleration of atherosclerosis. This volume highlights and reviews new perspectives of infections on the cardiovascular system as never before. It is a truly valuable resource for scientists, researchers, residents, and fellows in the fields of infectious disease, cardiology, and microbiology.

Organ Physiology Apr 29 2020

The Cardiovascular System at a Glance Dec 30 2022 The Cardiovascular System at a Glance is a concise and accessible systems-based textbook. Updated throughout, the second edition uses an integrated approach to take the reader through the basic anatomy, physiology, histology, biochemistry, pathophysiology, and clinical aspects of the cardiovascular system. Following the classic double-page spread format of the At a Glance series, each double page presents clear, memorable diagrams that illustrate essential information with accompanying text that covers key topics in more detail. The text progresses from basic science to clinical application: a general introduction to the cardiovascular system is followed by anatomy and histology; blood and body fluids; biochemistry and excitation-contraction coupling; form and function; integration and regulation; and pathology and therapeutics. Four clinical case studies at the end of the book reinforce the integrated systems-based approach to this subject. Additionally, two new chapters covering Revascularisation as well as Emerging Concepts and Treatments have been included. The second edition of The Cardiovascular System at a Glance is an ideal resource for medical students, whilst students of other health professions and specialist cardiology nurses will also find it invaluable. Examination candidates who need an authoritative yet concise guide to the cardiovascular system will find it extremely useful. This book has been designed to fit into the budget and reading time of busy students, and is recommended as primary or supplementary reading for a lecture-based course, and/or as a book for revision prior to examinations.

The Circulatory System Sep 02 2020 Describes the components of the circulatory system, how the heart functions to pump blood through the human body, and cardiovascular diseases and disorders.

Biofluid Mechanics in Cardiovascular Systems Mar 21 2022 Biofluidics has gained in importance in recent years, forcing engineers to redefine mechanical engineering theories and apply them to biological functions. To date, no book has successfully done this. Biofluid Mechanics in Cardiovascular Systems is one of the first books to take an interdisciplinary approach to the subject. Written by a professor and researcher, this book will combine engineering principles with human biology to deliver a text specifically designed for biomedical engineering professionals and students.

Vortex Formation in the Cardiovascular System Oct 28 2022 Vortex Formation in the Cardiovascular System will recapitulate the current knowledge about the vortex formation in the cardiovascular system, from mechanics to cardiology. This can facilitate the interaction between basic scientists and clinicians on the topic of the circulatory system. The book begins with a synopsis of the fundamentals aspects of fluid mechanics to give the reader the essential background to address

the proceeding chapters. Then the fundamental elements of vortex dynamics will be discussed, explaining the conditions for their formation and the rules governing their dynamics. The main equations are accompanied by mathematical models. Cardiovascular vortex formation is first analyzed in physiological, healthy conditions in the heart chambers and in the large arterial vessels. The analysis is initially presented with an intuitive appeal grounded on the physical phenomena and a focus on its clinical significance. In the proceeding chapters, the knowledge gained from either clinical or basic science literature will be discussed. The corresponding mathematical elements will finally be presented to ensure the adequate diligence. The proceeding chapters ensue to the analysis of pathological conditions, when the reader may have developed the ability to recognize normal from abnormal vortex formation phenomenon. Pathological vortex formation represents vortices that develop at sites where normally laminar flow should exist, e.g. stenosis and aneurisms. This analysis naturally leads to the interaction of vortices due to the surgical procedures with respect to prediction of changes in vortex formation. The existing techniques, from medical imaging to numerical simulations, to explore vortex flows in the cardiovascular systems will also be described. The presentations are accompanied by the mathematical definitions can that be understandable for reader without the advanced mathematical background, while an interested reader with more advanced knowledge in mathematics can be referred to references for further quantitative analyses. The book pursues the objective to transfer the fundamental vortex formation phenomena with application to the cardiovascular system to the reader. This book will be a valuable support for physicians in the evaluation of vortex influence on diagnosis and therapeutic choices. At the same time, the book will provide the rigorous information for research scientists, either from medicine and mechanics, working on the cardiovascular circulation incurring with the physics of vortex dynamics.

Cardiovascular Physiology, Seventh Edition Feb 26 2020 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.

The Cardiovascular System at a Glance Jan 31 2023 Everything you need to know about the cardiovascular system... at a Glance! The Cardiovascular System at a Glance is the essential reference guide to understanding all things circulatory. Concise, accessible, and highly illustrated, this latest edition presents an integrated overview of the subject, from the basics through to application. Featuring brand new content on stroke, examination and imaging, heart block and ECGs, and myopathies and channelopathies, The Cardiovascular System at a Glance goes one step further and offers new and updated clinical case studies and multiple-choice questions on a supplementary website. Integrates basic science and clinical topics Offers bite-size chapters that make topics easy to digest Includes coverage of anatomy and histology, blood and haemostasis, cellular physiology, form and function, regulation and integration of cardiovascular function, history, examination and investigations, pathology and therapeutics Filled with highly visual, colour illustrations that enhance the text and help reinforce learning The fifth edition of The Cardiovascular System at a Glance is an ideal resource for medical students, junior doctors, students of other health professions, and specialist cardiology nurses.

Hearts and Arteries Feb 17 2022 Discusses the advances made in learning how the normal aging process affects the heart & arteries & how to treat cardiovascular diseases. The most important findings are highlighted, & the future of cardiovascular medicine is also included. Chapters include: heart dynamics, measuring the heart, the biology of physical fitness, arteries: young & old, measuring stiffness, when the brain talks to the heart, how a myocyte contracts, exercise & the aging myocyte, what happens during atherosclerosis, & gene therapy. Glossary of terms. Illustrated.

Circulatory System Dynamics May 30 2020 Circulatory System Dynamics reviews cardiovascular dynamics from the analytical viewpoint and indicates ways in which the accumulated knowledge can be expanded and applied to further enhance understanding of the normal mammalian circulation, to ascertain the nature of difficulties associated with disease, and to test the effect of treatment. Comprised of 10 chapters, this volume begins with an overview of the circulatory system, including its anatomy and the trigger for myocardial (heart muscle) contraction. The discussion then turns to measurement of blood pressure using invasive and non-invasive techniques; blood flow measurement, with emphasis on cardiac output and measurement in the microcirculation; the system and pulmonary arterial trees; and pulsatile pressure and flow in pulmonary veins. Subsequent chapters explore microcirculation and the anatomy of the microvasculature; the heart and coronary circulation, paying particular attention to the Frank-Starling mechanism and indices of myocardial "contractility"; and control of blood pressure, peripheral resistance, and cerebral flow. The last two chapters deal with circulatory assistance and the closed cardiovascular system. This book will be of interest to students, practitioners, and researchers in fields ranging from physiology and biology to biochemistry and biophysics.

20 Fun Facts About the Circulatory System Jul 13 2021 The circulatory system doesn't just move blood around the body.

It moves nutrients, oxygen, hormones, and electrolytes to exactly where they need to go, from the brain to the feet. Every body system relies on the network of veins, arteries, and capillaries throughout the body. While important, the circulatory system is also incredibly interesting! Readers learn the basics of blood cells and blood vessels in fun, surprising, and even gross facts on each page. Diagrams and full-color photographs aid readers' understanding and provide a close encounter with parts of the body they may never see.

The Circulatory System Mar 28 2020 Discusses the organs and function of the human circulatory system, the vital functions of blood, and the medical diagnosis and treatment of heart disease and other circulatory disorders.

The Cardiovascular System Jul 25 2022 Normal cardiovascular function requires the concerted action of many cell types, each capable of adaptive gene expression in response to developmental, physiological, and pathological cues. The genetic basis of cardiovascular function, development, and disease is an area of intense investigation, in the hope of significant insights into the heart and vessels' basic workings and improvements in diagnosis and therapy. This latest volume in a prestigious book series presents a remarkable survey of current progress in these efforts, through the contributions of over fifty of the world's leading investigators. Sections are devoted to angiogenesis, cardiogenesis, homeostasis, development, vascular biology, and cardiovascular repair and therapy. The book is an essential source of ideas, discoveries, and references for clinical scientists and physicians interested in basic cardiac biology, hypertension, atherosclerosis, coronary artery disease, and heart failure.

Patient-Specific Modeling of the Cardiovascular System Nov 04 2020 Peter Hunter Computational physiology for the cardiovascular system is entering a new and exciting phase of clinical application. Biophysically based models of the human heart and circulation, based on patient-specific anatomy but also informed by population atlases and incorporating a great deal of mechanistic understanding at the cell, tissue, and organ levels, offer the prospect of evidence-based diagnosis and treatment of cardiovascular disease. The clinical value of patient-specific modeling is well illustrated in application areas where model-based interpretation of clinical images allows a more precise analysis of disease processes than can otherwise be achieved. For example, Chap. 6 in this volume, by Speelman et al. , deals with the very difficult problem of trying to predict whether and when an abdominal aortic aneurysm might burst. This requires automated segmentation of the vascular geometry from magnetic resonance images and finite element analysis of wall stress using large deformation elasticity theory applied to the geometric model created from the segmentation. The time-varying normal and shear stress acting on the arterial wall is estimated from the arterial pressure and flow distributions. Thrombus formation is identified as a potentially important contributor to changed material properties of the arterial wall. Understanding how the wall adapts and remodels its material properties in the face of changes in both the stress loading and blood constituents associated with inflammatory processes (IL6, CRP, MMPs, etc).

An Introduction to Cardiovascular Physiology Jun 23 2022 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.

The Gross Physiology of the Cardiovascular System Mar 01 2023

Cardiovascular Physiology 8/E Oct 04 2020 Suitable for USMLE and exam review, this title helps you gain a fundamental knowledge of the basic operating principles of the intact cardiovascular system and how those principles apply to clinical medicine.

The Cardiovascular System Aug 14 2021 The Cardiovascular System: Design, Control and Function, Volume 36A, a two-volume set, not only provides comprehensive coverage of the current knowledge in this very active and growing field of research, but also highlights the diversity in cardiovascular morphology and function and the anatomical and physiological plasticity shown by fish taxa that are faced with various abiotic and biotic challenges. Updated topics in this important work include chapters on Heart Morphology and Anatomy, Cardiomyocyte Morphology and Physiology, Electrical Excitability of the Fish Heart, Cardiac Energy Metabolism, Heart Physiology and Function, Hormonal and Intrinsic Biochemical Control of Cardiac Function, and Vascular Anatomy and Morphology. In addition, chapters integrate molecular and cellular data with the growing body of knowledge on heart and in vivo cardiovascular function, and as a result, provide insights into some of the most important questions that still need to be answered. Presents a comprehensive overview of cardiovascular structure and function in fish Covers topics in a way that is ideal for researchers in fish physiology and for audiences within the fields of comparative morphology, histology, aquaculture and ecophysiology Provide insights into some of the most important questions that still need to be answered

Cardiovascular System and Physical Exercise Nov 16 2021 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.

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