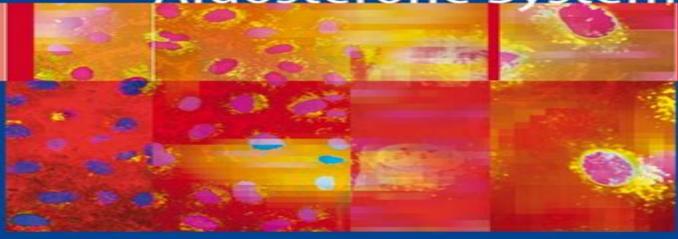
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The Local Cardiac Renin—Angiotensin Aldosterone System



Serond Edition



# **Local Cardiac Renin Angiotensin Aldosterone System**

Miguel A. Aon, Amadou K. S. Camara

#### **Local Cardiac Renin Angiotensin Aldosterone System:**

The Local Cardiac Renin-Angiotensin Aldosterone System Edward D. Frohlich, Richard N. Re,2006-01-26 Until recently the renin angiotensin aldosterone system has been considered a systemic endocrine hormonal system exclusively It is now known that each component of the renin angiotensin system is produced synthesized and indeed present in many organisms including the heart and vessels This volume presents the most recent clinical and laboratory experiences of the leading physicians and investigators in the field of the local cardiac renin angiotensin aldosterone system Cardiovascular renal and hypertension oriented physicians investigators and scientists would find this book of interest Edward D Frohlich M D M A C P F A C C is the Alton Ochsner Distinguished Scientist at the Ochsner Clinic Foundation in New Orleans Louisiana He is also Professor of Medicine and of Physiology at Louisiana State University School of Medicine New Orleans and Clinical Professor of Medicine and Adjunct Professor of Pharmacology at Tulane University School of Medicine New Orleans He is past Editor in Chief of the American Heart Association journal HYPERTENSION Richard N Re M D is the Section Head Hypertension at the Ochsner Clinic Foundation in New Orleans Louisiana He is also Ochsner s Scientific Director of Research

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Renin-Angiotensin-Aldosterone System - Latest Trends Takaaki Senbonmatsu, Makoto Katoh, 2025-04-16 Renin Angiotensin Aldosterone System Latest Trends consists of five chapters related to the renin angiotensin aldosterone system RAAS RAAS is a crucial hormonal system that regulates blood pressure blood volume and sodium salt balance in the body When the kidneys detect abnormalities in hemodynamics such as a drop in blood pressure or sodium concentration renin is secreted leading to the production of angiotensin II which is a physiologically active substance Angiotensin II causes cell proliferation vasoconstriction and sodium reabsorption through the angiotensin II type 1 receptor AT1 receptor helping maintain hemodynamic balance Additionally the AT1 receptor stimulates aldosterone secretion from the adrenal cortex

Aldosterone regulates sodium reabsorption and potassium excretion in the kidneys Excessive activity of this system can lead to cardiovascular diseases To address this RAAS inhibitors such as angiotensin converting enzyme inhibitors ACEi angiotensin II type 1 receptor blockers ARB direct renin inhibitors DRI and mineralocorticoid receptor antagonists MRAs also known as aldosterone blockers are used to treat hypertension heart failure and arteriosclerosis These therapies can be considered the 20th century RAAS inhibitors In the 21st century the discovery of the pro renin receptor added a new dimension to the RAAS The physiological activation mechanism following angiotensin II has also been elucidated While research on the pro renin receptor as a RAAS independent factor with organ crossing functions and a potential therapeutic target continues there is still no consensus on its role as part of the RAAS Further research is needed to explore the physiological activation mechanism following angiotensin II This book collects the latest research on RAAS including studies on new indicators related to angiotensin converting enzyme and provides valuable information on its functions Angiotensin System and Cardiovascular Disease Walmor C. DeMello, Edward D. Frohlich, 2009-09-01 This book offers the latest research into the role of the renin angiotensin system on cardiac and vascular functions and in cardiovascular diseases It covers vital aspects such as intracellular signaling and regulation of cell volume in the failing heart Beyond the conventional Renin Angiotensin System Walmor De Mello, 2014-11-19 The Local Cardiac Renin Angiotensin-Aldosterone System (2006). Mechanically Gated Channels and their Regulation Andre Kamkin, Ilya Lozinsky, 2012-12-05 The volume dwells on the major issues of mechanical stress influencing the ion channels and intracellular signaling pathways This book is a unique collection of reviews outlining current knowledge and future developments in this rapidly growing field In our opinion the book presents not only the latest achievements in the field but also brings the problem closer to the experts in related medical and biological sciences as well as practicing doctors Knowledge of the mechanisms which underlie these processes is necessary for understanding of the normal functioning of different living organs and tissues and allows to predict changes which arise due to alterations of their environment and possibly will allow to develop new methods of artificial intervention We also hope that presenting the problem will attract more attention to it both from researchers and practitioners and will assist to efficiently introduce it into the practical Renin-Angiotensin Aldosterone System Samy I. McFarlane, 2021-11-24 The Renin Angiotensin Aldosterone medicine System RAAS plays an important role not only in salt and water homeostasis but also in the cardiovascular system the kidney and the brain While several volumes address different aspects of the RAAS function this book provides cutting edge information on the pathogenesis of various disorders related to RAAS overactivation It also presents unique aspects of RAAS functioning that have not been sufficiently described in the literature Topics covered include assessment of hypoaldosteronism in infancy RASS and cognitive decline and the role of RAAS in the pathogenesis of COVID 19 Written by experts in the field in an easy to follow and illustrated format this volume will benefit students and practitioners as well as

clinical and basic science investigators alike The Renin Angiotensin System in Cardiovascular Disease Naranjan S. Dhalla, Sukhwinder K. Bhullar, Anureet K. Shah, 2023-01-01 This book on Renin Angiotensin System in Cardiovascular Disease includes 25 chapters which are organized in three sections namely i modulatory aspects ii pathophysiological aspects and iii pharmacotherapeutic aspects It includes an updated as well as comprehensive knowledge about molecular and cellular aspects for the role of the renin angiotensin system RAS in the pathophysiology and therapy of cardiovascular diseases such as hypertension atherosclerosis ischemic heart disease and heart failure This book emphasizes the molecular and cellular mechanisms signaling transduction pathways involved in the development of different cardiovascular diseases due to the prolonged activation of RAS Furthermore biochemical mechanisms are outlined for the inhibition of this system by the blockade of angiotensin converting enzyme as well as angiotensin II type 1 receptors in patients suffering from cardiovascular abnormalities Since cardiovascular disease is the number one cause of death worldwide leading to approximately 17 9 million deaths each year there is a keen interest in understanding the pathogenesis and improving its therapy In this regard we can attest that this book provides ample information about essential components of RAS and their role in the development of cardiovascular disease From the selection of recognized global experts in their area of investigation this book can be seen to cover diverse cardiovascular aspects and molecular and cellular mechanisms of angiotensin II action for the development of different cardiovascular abnormalities It is our contention that this book will be most suitable for promoting knowledge in the field of RAS biology and will be of great interest to health professionals involved in both experimental and clinical cardiology as well as academic investigators and cardiovascular scientists graduate students and fellows worldwide Index Medicus, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Cumulated Index Medicus ,1974 **Textbook of Nephro-Endocrinology** Ajay K. Singh, Gordon H. Williams, 2009-01-12 The Textbook of Nephro Endocrinology is the definitive translational reference in the field of nephro endocrinology investigating both the endocrine functions of the kidneys and how the kidney acts as a target for hormones from other organ systems It offers researchers and clinicians expert gold standard analyses of nephro endocrine research and translation into the treatment of diseases such as anemia chronic kidney disease CKD rickets osteoporosis and hypoparathyroidism Investigates both the endocrine functions of the kidneys and how the kidney acts as a target for hormones from other organ systems Presents a uniquely comprehensive and cross disciplinary look at all aspects of nephro endocrine disorders in one reference work Clear translational presentations by the top endocrinologists and nephrologists in each specific hormone or functional systems field Congestive Heart Failure Jeffrey D. Hosenpud, Barry H. Greenberg, 2007 Written by recognized leaders in the field Congestive Heart Failure Third Edition is a comprehensive state of the art reference on all basic and clinical aspects of heart failure Coverage includes an entire section on pharmacologic therapy and a twenty chapter section on clinical approaches to acute and chronic heart failure This edition has new chapters

on impact and treatment of comorbidities prevention of sudden cardiac death rationale for use of anticoagulants ultrafiltration use of mechanical devices and gene and cell therapy Readers will find up to date information on genetics surgical therapies ventricular synchronization defibrillator therapy mechanical approaches to atrial fibrillation left ventricular assist devices ventricular support and ventricular remodeling surgery and myocardial regeneration cell Mitochondria: Hubs of Cellular Signaling, Energetics and Redox Balance Miguel A. Aon, Amadou K. S. Camara, 2017-08-11 Poised at the convergence of most catabolic and anabolic pathways mitochondria are the center of heterotrophic aerobic life representing a hub in the overall metabolic network of cells The energetic functions performed by mitochondria face the unavoidable redox hurdle of handling huge amounts of oxygen while keeping its own as well as the cellular redox environment under control Reactive oxygen species ROS are produced in the respiratory chain as a result of the energy supplying function of mitochondria Originally considered an unavoidable by product of oxidative phosphorylation ROS have become crucial signaling molecules when their levels are kept within physiological range This occurs when their production and scavenging are balanced within mitochondria and cells Mitochondria generated hydrogen peroxide can act as a signaling molecule within mitochondria or in the cytoplasm affecting multiple networks that control for example cell cycle stress response cell migration and adhesion energy metabolism redox balance cell contraction and ion channels However under pathophysiological conditions excessive ROS levels can happen due to either overproduction overwhelming of antioxidant defenses or both Under oxidative stress detrimental effects of ROS include oxidation of protein lipids and nucleic acids mitochondrial depolarization and calcium overload and cell wide oscillations mediated by ROS induced ROS release mechanisms Mitochondrial dysfunction is central in the pathogenesis of numerous human maladies including cardiomyopathies and neurodegeneration Diseases characterized by altered nutrient metabolism such as diabetes and cancer exhibit elevated ROS levels These may contribute to pathogenesis by increasing DNA mutation affecting regulatory signaling and transcription and promoting inflammation Under metabolic stress several ionic channels present in the inner and outer mitochondrial membranes can have pro life and death effects In the present E book based on the Frontiers Research Topic entitled Mitochondria Hubs of cellular signaling energetics and redox balance we address one of the fundamental questions that the field of ROS biology faces today how do mitochondria accomplish a reliable energy provision and at the same time keep ROS levels within physiological non harming limits but crucial for cellular signaling function Additionally and within the perspective of mitochondria as signaling energetic hubs in the extensive cellular metabolic network we ask how can their collective dynamics scale from the subcellular to the cellular tissue and organ levels to affect function in health and disease

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related to the heart by listing four key points for each topic The book deals with both theoretical and practical aspects of cardiology explaining the causes diagnosis treatment and prevention of many cardiac complaints This new edition includes a chapter on pregnancy and cardiovascular disease Numerous new clinical photographs and diagrams have also been added to this comprehensive manual Key points Fully updated new edition presenting all topics of cardiology in four key points Examines theoretical and practical aspects of causes diagnosis treatment and prevention of many diseases and disorders New chapter on pregnancy and cardiovascular disease Includes numerous new clinical photographs and diagrams Previous edition published in 2002 Handbook of H+-ATPases Suguru Nakamura, 2014-03-19 This handbook on vacuolar and plasma membrane H ATPases is the first to focus on an essential link between vacuolar H ATPase and the glycolysis metabolic pathway to understand the mechanism of diabetes and the metabolism of cancer cells It presents recent findings on the structure and function of vacuolar H ATPase in glucose promoting assembly Hypertension, An Issue of Medical Clinics of North America Edward D. Frohlich, 2016-11-24 This issue of Medical Clinics guest edited by Dr Edward Frohlich is devoted to Hypertension Articles in this outstanding issue include The Kidney in Hypertension Heart Fibrosis Apoptosis and Cardiac Failure Myocardial Ischemia Oxidative Stress and Hypertensive Diseases Adherence to Antihypertensive Therapy Aging and Hypertension Target Organs and Microbiological Considerations in Hypertensive Diseases Obesity and Sodium Considerations Diabetes Hypertension and Cardiorenal Syndrome Renal Arterial Disease Cardiac Transplantation and Hypertensive Diseases Cardiac Failure Old and New Challenges Diastolic Dysfunction and Hypertension Stiffening of Large Arteries Genetics and Mechanisms New Guidelines for Hypertensive Diseases and Local Renin Angiotensin Systems

Pediatric Hypertension Joseph T. Flynn, Julie R. Ingelfinger, Tammy M. Brady, 2023-01-09 For the past 17 years Pediatric Hypertension has served as the definitive reference text on hypertension in children and adolescents Each edition has incorporated the latest research on the pathophysiology clinical significance and management of hypertension in the young and has incorporated the most current consensus guidelines on diagnosis and management The years since publication of the fourth edition have seen further advances in the field that merit publication of an updated expanded text including Analysis of the implications of updated hypertension guidelines on identification of youth at highest cardiovascular risk Additional data on the proximate effects of high blood pressure in children in adolescents Further understanding of the links between high blood pressure in youth and surrogate markers of adult cardiovascular disease The fifth edition is a readable informative text that provides a comprehensive guide to the diagnosis management and therapy of hypertension in children and adolescents and presents new data that very clearly indicate that the origins of adult cardiovascular disease are rooted in pediatric hypertension It will as a result be very important for therapeutic decisions and will also be highly relevant for those in internal medicine who care for the millions of adults who have hypertension cardiovascular disease and kidney disease In this sense the book fulfills the longstanding goal of showing that hypertension that begins in childhood is important to track

diagnose and treat and that the present understanding of adult hypertension necessitates the study of blood pressure in youth The fifth edition has a similar structural format to the prior editions and covers all aspects of pediatric hypertension from basic science research to the most recent clinical information

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