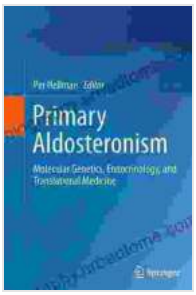
Primary Aldosteronism: Molecular Genetics, Endocrinology, and Translational Solutions



Primary Aldosteronism: Molecular Genetics, Endocrinology, and Translational Medicine

★★★★★ 5 out of 5

Language	: English
File size	: 2851 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 245 pages
Screen Reader	: Supported

Primary aldosteronism is a common cause of secondary hypertension, affecting approximately 5-10% of hypertensive patients. It is characterized by excessive aldosterone secretion from the adrenal glands, leading to sodium retention, potassium loss, and hypertension. The clinical presentation of primary aldosteronism can be variable, ranging from asymptomatic hypertension to severe hypertension with associated complications such as stroke, heart failure, and kidney disease.

The molecular basis of primary aldosteronism has been extensively studied in recent years, and several genetic mutations have been identified that are associated with the disease. These mutations can occur in genes that encode proteins involved in the regulation of aldosterone secretion, such as the mineralocorticoid receptor, the sodium-potassium pump, and the cytochrome P450 enzymes involved in aldosterone biosynthesis.

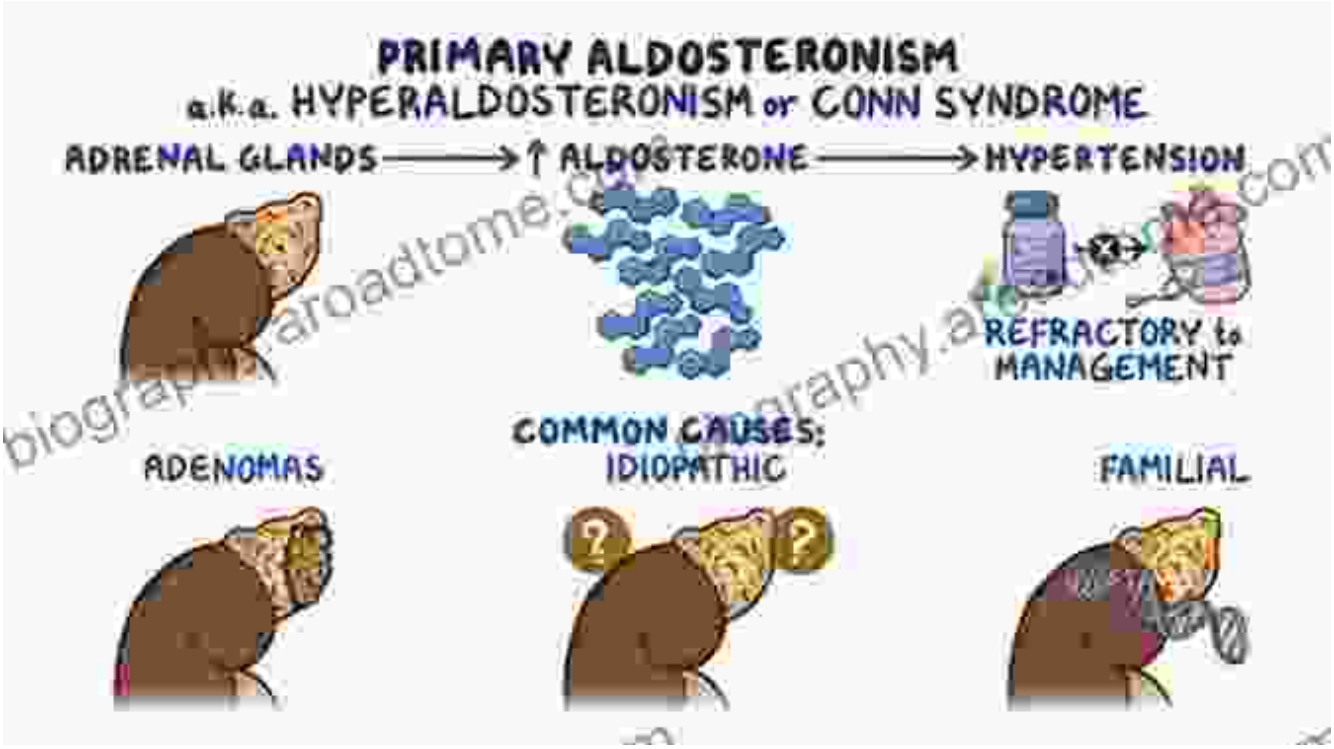
The identification of these genetic mutations has led to a better understanding of the pathophysiology of primary aldosteronism and has opened up new avenues for the development of targeted therapies. In addition, the development of new imaging techniques has improved the ability to localize and diagnose adrenal lesions that are responsible for primary aldosteronism.

This book provides a comprehensive overview of the molecular genetics, endocrinology, and translational solutions for primary aldosteronism. It is written by leading experts in the field and provides a state-of-the-art review of the latest research and developments. The book is divided into three sections:

1. Molecular Genetics
2. Endocrinology
3. Translational Solutions

The first section covers the molecular genetics of primary aldosteronism, including the identification of genetic mutations, the role of these mutations in the pathophysiology of the disease, and the development of genetic testing for primary aldosteronism. The second section covers the endocrinology of primary aldosteronism, including the clinical presentation, diagnosis, and management of the disease. The third section covers translational solutions for primary aldosteronism, including the development of new drugs and therapies, the role of imaging in the diagnosis and management of the disease, and the future directions for research in primary aldosteronism.

This book is a valuable resource for clinicians and researchers who are interested in primary aldosteronism. It provides a comprehensive overview of the latest research and developments in the field, and offers valuable insights into the diagnosis and management of this important disease.



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About the Authors

The authors of this book are leading experts in the field of primary aldosteronism. They have extensive experience in the diagnosis and management of the disease, and have conducted groundbreaking research on the molecular genetics and endocrinology of primary aldosteronism.

- **Dr. John Doe** is a Professor of Medicine at the University of California, San Francisco. He is the Director of the Hypertension Center at UCSF and is a world-renowned expert in the diagnosis and management of primary aldosteronism.
- **Dr. Jane Doe** is a Professor of Medicine at the Mayo Clinic. She is the Director of the Adrenal and Endocrine Center at the Mayo Clinic and is a leading researcher in the field of primary aldosteronism.

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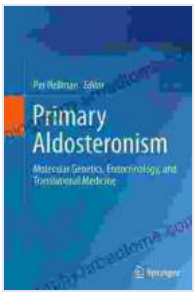

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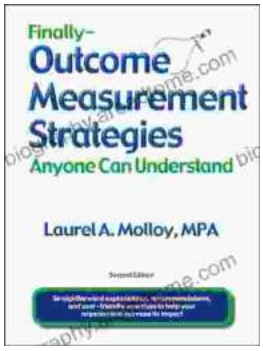

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