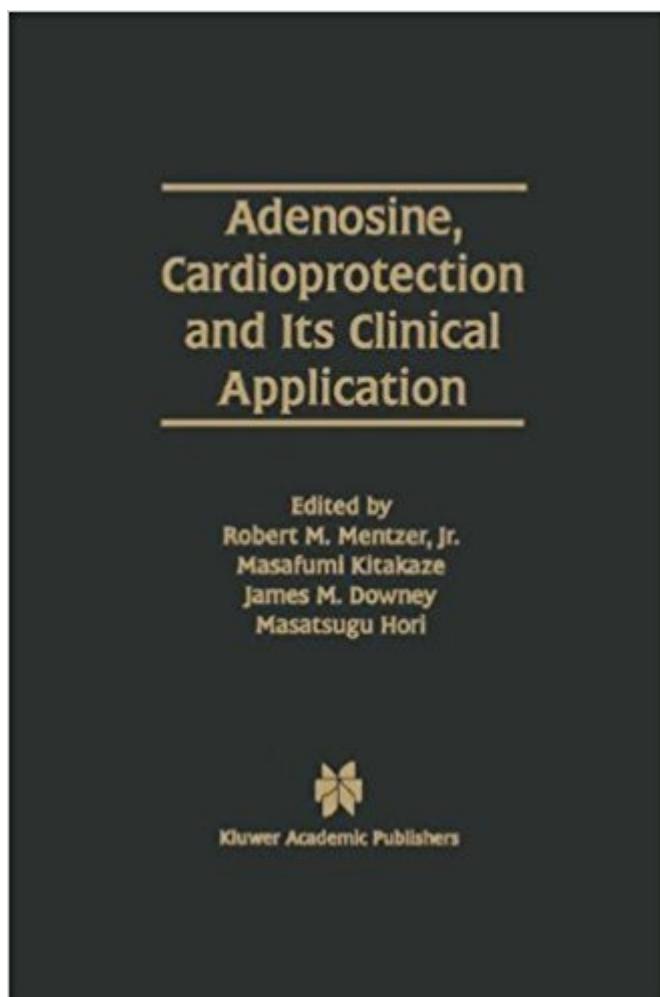


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Adenosine, Cardioprotection And Its Clinical Application (Developments In Cardiovascular Medicine)



Synopsis

The immense growth in the number of articles on adenosine cardioprotection in recent years has been related in large part to the hypothesis that adenosine plays a role in ischemic preconditioning. Ischemic preconditioning is the phenomenon in which a brief period of ischemia (and reperfusion) prior to a more prolonged occlusion reduces myocardial infarct size. This form of myocardial protection has received much interest because ischemic preconditioning has been shown to be the most potent means of reducing infarct size in all animal models so far tested. Within the last six years, the principal focus of adenosine cardioprotection research has centered on the role of adenosine receptors. It is currently thought that adenosine protects the ischemic heart primarily via the activation of adenosine A1 receptors located on the cardiac myocytes. Adenosine is used clinically for terminating supraventricular tachycardia, and as a diagnostic tool in coronary imaging, and has been used postoperatively for blood pressure control after heart surgery. There are also recent reports that adenosine may be safely tolerated and a potentially beneficial additive to cardioplegic solutions during open heart surgery in humans. There is even evidence that ischemic preconditioning may occur in humans under various clinical situations. This volume contains chapters from contributors to the first three symposia on 'Adenosine, Cardioprotection, and its Clinical Application'. All aspects of adenosine cardioprotection and ischemic preconditioning, including potential mechanisms and clinical applications, are discussed by experts in these areas. The reader will find this book to be an excellent source of information on these topics, as well as a guide to future experiments.

Book Information

File Size: 3254 KB

Print Length: 239 pages

Publisher: Springer; 1997 edition (September 10, 2012)

Publication Date: September 10, 2012

Sold by:Â Digital Services LLC

Language: English

ASIN: B00F5QBYFO

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #3,780,593 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #61
in Books > Medical Books > Pharmacology > Cardiovascular #2247 in Kindle Store > Kindle eBooks > Medical eBooks > Internal Medicine > Cardiology #8422 in Books > Medical Books > Medicine > Internal Medicine > Pathology > Diseases > Cardiovascular

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