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Adrenomedullin In

Cardiovascular

Disease Basic

Science For The

Cardiologist 1st

Edition

By

Nishikimi Toshio

Published By

Springer

Hardcover

Cardiologist

1st Edition

By Nishikimi

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Adrenomedullin In Cardiovascular Disease Basic

Adrenomedullin has attracted considerable interest among

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cardiologists due to its impact on the cardiovascular system which includes a decrease in blood pressure in vivo; an impact on vascular smooth muscle cells; increases cAMP levels; indirectly reduces blood pressure and has a role in the pathogenesis of arteriosclerosis.

Adrenomedullin in Cardiovascular

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Disease (Basic Science ...

Adrenomedullin was discovered in 1993 in an extract of human pheochromocytoma while monitoring cAMP levels in rat platelets. Adrenomedullin has attracted considerable interest among cardiologists due to its impact on the cardiovascular system which includes a decrease in blood pressure *in vivo*; an

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impact on vascular smooth muscle cells; increases cAMP levels; indirectly reduces blood pressure and has a role in the pathogenesis of arteriosclerosis.

Adrenomedullin in Cardiovascular Disease | Toshio ...

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At present, the most promising clinical application of ADM is the use of the plasma level of mid-regional

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proadrenomedullin as a biomarker in cardiovascular diseases. It is a good marker of...

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Adrenomedullin and cardiovascular diseases

Adrenomedullin has attracted considerable interest among cardiologists due to its impact on the cardiovascular system which includes a

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decrease in blood pressure in vivo; an impact on vascular smooth muscle cells; increases cAMP levels; indirectly reduces blood pressure and has a role in the pathogenesis of arteriosclerosis.

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Abstract: Many
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neurohumoral factors play important roles in the regulation of the cardiovascular system and in the pathophysiology of cardiovascular disease. Adrenomedullin (AM) is a potent vasodilatory peptide originally discovered in the acid extract of human pheochromocytoma tissue but now known to exert a variety of effects within the cardiovascular system.

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Adrenomedullin In

**Adrenomedullin in
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Disease: A Useful ...**

Adrenomedullin (AM), inducing a potent and powerful hypotensive activity caused by dilatation of resistance vessels, has elicited interest for its cardiovascular actions. AM is secreted from various cell type, including vascular endothelial and smooth muscle cell.

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[Adrenomedullin in cardiovascular pathology].

Adrenomedullin (AM) is a vasodilator peptide having a wide range of biological actions such as reduction of oxidative stress and inhibition of endothelial cell apoptosis. The AM gene is expressed in vascular walls, and AM was found to be secreted from cultured vascular endothelial

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cells, smooth muscle
cells, and adventitial
fibroblasts.

**Adrenomedullin |
Arteriosclerosis,
Thrombosis, and ...**

Asakawa H, Nishikimi
T, Suzuki T, Hara S,
Tsubokou Y, Yagi H,
Yabe A, Tsuchiya N,
Horinaka S, Kangawa
K, Matsuoka H. (2001)

Elevation of two
molecular forms of
adrenomedullin in
plasma and urine in

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patients with acute myocardial infarction treated with early coronary angioplasty.

Circulating Adrenomedullin | SpringerLink

Adrenomedullin (Adm) drives sex-dependent cardiac

lymphangiogenesis during development and surgical model of myocardial infarction (MI).A, Light sheet 3-dimensional (3D)

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microscopy for cardiac lymphatic vasculature in healthy adult male and female wild-type (Adm+/+) and Admhi/hi mice (black=LYVE1); scale bar=50 μ m.

Adrenomedullin Induces Cardiac Lymphangiogenesis After ...

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By Kyotaro Nishimura,
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attracted considerable
interest among

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cardiologists due to its impact on the cardiovascular system which includes a decrease in blood pressure in vivo an impact on vascular smooth muscle cells

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Systemic administration of ADM increases cardiac output and lowers

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blood pressure in healthy men and in patients with heart failure. 8 The increase in cardiac output can be explained by various mechanisms, including a decrease in systemic vascular resistance and an increase in coronary flow due to coronary vessel dilation. ADM increases cAMP levels and activates protein kinase A, and so augments myocardial

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contractility.

Adrenomedullin and cardiovascular diseases - Hoi Kin Wong ...

Mid-regional pro-adrenomedullin and mid-regional pro-atrial natriuretic peptide were shown to be associated with all-cause and cardiovascular disease mortality. Hypoxia regulates adrenomedullin

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secretion and expression by human placenta, thereby promoting increased adrenomedullin concentration in the fetal circulation in clinical circumstances characterized by reduced oxygen levels.

133 - Gene ResultADM adrenomedullin [(human)]

Adrenomedullin is seen as a positive influence

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in diseases such as hypertension, myocardial infarction, chronic obstructive pulmonary disease and other cardiovascular diseases, whereas it can be seen as a negative factor in potentiating the ability of cancerous cells to extend their blood supply and thereby enable further cell proliferation.

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Wikipedia

led to the development of many cardiovascular drugs. Adrenomedullin (ADM), initially isolated from the adrenal gland, has diverse physiological and pathophysiological functions in the cardiovascular system. It is produced in many organs and tissues including the vasculature. ADM has numerous actions, including vasodilation,

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natriuresis,
antiapoptosis and

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Adrenomedullin (AM) is
a regulatory peptide
whose involvement in
tumour progression is
becoming more
relevant with recent
studies. AM is
produced and secreted
by the tumour cells but
also by numerous
stromal cells including

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macrophages, mast cells, endothelial cells, and vascular smooth muscle cells.

Adrenomedullin and tumour microenvironment | Journal of...

randomly assigned to receive IV infusion of adrenomedullin (0.05 $\mu\text{g}/\text{kg}/\text{min}$) or ANP (0.05 $\mu\text{g}/\text{kg}/\text{min}$). Both adrenomedullin and ANP significantly decreased left

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ventricular systolic pressure (-17 mm Hg, -13 mm Hg, respectively, both $p < 0.05$). The increase in cardiac index by adrenomedullin ($+31\%$) was significantly greater than that by ANP ($+16\%$).

Adrenomedullin significantly increased an ...

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