

# Adrenergic receptors in the cardiovascular system - a review of their physiology and pharmacology

Rorer International Pharmaceuticals - ADRENERGIC PHARMACOLOGY



Description: -

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Cardiovascular system.  
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## CV Pharmacology

Particularly, despite the improvement in treatments, many elderly people suffer from cardiac problems HF, valvular diseases, arrhythmias or hypertension that are much more common in an older fragile heart. Antiarrhythmic drugs are a group of pharmaceuticals that are used to suppress abnormal rhythms of the heart cardiac arrhythmias , such as atrial fibrillation, atrial flutter, ventricular tachycardia, and ventricular fibrillation. Phenylethylamines Imidazolines Phenylephrine Oxymetazoline Pseudoephedrine Methoxamine Naphazoline Metaraminol Tetrahydrozoline Ephedrine Clinical Uses of Agents that Activate the Alpha 1-Adrenergic Receptor 1 Hemorrhage control - previously discussed for epinephrine 2 With local anesthetics - previously discussed for epinephrine.

## Adrenergic receptor

Taken together, these studies suggest that  $\beta$ -AR dysfunction is an important determinant in the age-related cardiac alterations and understanding the specific mechanisms involved would be beneficial for designing specific treatments for the elderly patients with cardiac dysfunction. Ces adrénorécepteurs appartiennent à la super-famille des récepteurs couplés aux protéines G GPCR et sont divisés en sous-types: récepteurs alpha1, alpha2, beta1, beta2 et beta3. Undoubtedly, it is crucial to invest in therapies that are able to counteract the effects of HF on cardiac function and at the same time improve the alterations that are unique to the aging heart.

## Cardiovascular system

Since  $\beta$ -AR signaling is dysfunctional in failing as well as aging heart, this pathway is an effective diagnostic and therapeutic target. Many side-effects lessen over time.

## ADRENERGIC PHARMACOLOGY

International Journal of Women's Health. Beta antagonists block the ability of the sympathetic nervous system to increase the contractile force and the rate of contraction.

### **Adrenergic receptors and cardiovascular effects of catecholamines**

A third subtype, alpha-1D adrenoceptor, has been cloned from the rat cerebral cortex Perez et al 1991 , Lomasney et al 1991 , although this clone was originally called the alpha-1a adrenoceptor by one of the groups. They are G-protein coupled receptors GPCRs.

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