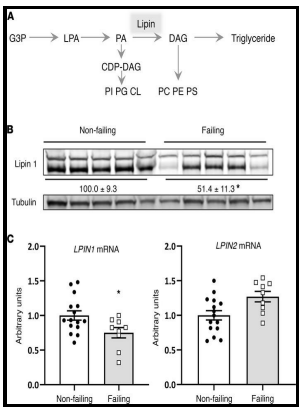
Pharmacology of the failing human heart.

Blackwell Scientific Pub - Neurotransmitter depletion compromises the ability of indirect



Description: -
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Goiás (Brazil : State) -- Politics and government.
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Lima, João de Sousa, 1869?-1947.
Pharmaceutical Services -- Handbooks
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Heart -- diseases -- treatment.
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Oxford handbooks
Oxford medical publications
American lecture series, publication -- no. 92Pharmacology of the failing human heart.
Notes: Bibliography: p. 60-63.
This edition was published in 1950

Filesize: 35.67 MB

Tags: #Evidence #for #reduction #of #norepinephrine #uptake #sites #in #the #failing #human #heart

Microtubules Increase Diastolic Stiffness in Failing Human Cardiomyocytes and Myocardium

For B and C, asterisks denote significant effect of etiology as determined via two-way ANOVA with factors of etiology and strain. Middle: Corresponding sarcomere length change in response to stretch protocol. In failing myocardium, microtubules elevate stiffness over the typical working range of strains and strain rates, but exhibited diminishing effects with increasing length, consistent with an increasing contribution of the extracellular matrix or myofilament proteins at larger excursions.

Pharmacology of the Failing Human Heart

Representative tracing of levosimendan at a low-grade β-adrenoceptor stimulation 2. The pathophysiologic consequences could be an increased synaptic concentration of norepinephrine predisposing to adenylyl cyclase desensitization. Forskolin was a potent positive inotrope in failing human myocardium, producing a stimulation of contraction that was similar to isoproterenol.

Evidence for reduction of norepinephrine uptake sites in the failing human heart

The figure shows representative tracings, scaled to represent the average basal and maximum force in similar experiments. This effect was reversed by β-adrenoceptor blockade and undetectable in strips pretreated with cilostamide. Am J Physiol Heart Circ Physiol.

Inhibition of phosphodiesterase

Chen CY, Salomon AK, Caporizzo MA, Curry S, Kelly NA, Bedi K, Bogush AI, Krämer E, Schlossarek S, Janiak P, Moutin MJ, Carrier L, Margulies KB, Prosser BL. Increasing ventricular compliance can improve diastolic performance, but the viscoelastic forces that resist diastolic filling and become elevated in human HF are poorly defined.

Microtubules Increase Diastolic Stiffness in Failing Human Cardiomyocytes and Myocardium

PDE4 inhibition enhances, but PDE3 inhibition eliminates the PIE of levosimendan in failing human and normal rat myocardium.

Inhibition of phosphodiesterase

A log IC 50 pIC 50 value of 7. .

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