

# **INVESTIGATION CARDIOPROTECTION PROPERTY PREPARATION “LATIRON” IN MODEL ADRENALINI MYOCARDITIS**

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Cardiovascular disorders are on the second place by their frequency in the world. Some drugs which promote rhythm, permeability of blood vessels normalization, edema of tissues diminishing, microcirculation improvement, as well as metabolic processes in heart muscle and blood vessels improvement are widely used as cardioprotectors.

Cardioprotektor the action of “Latiron” conducted at one is the main model of ischemic blow myocard-adrenalini myocarditis of heart muscle.

In the experiment rats were used, which were separated into four groups by six rats in each: 1-st group – intact control, 2-nd group – control pathology, 3-rd group animals with pathology treated with “Latiron”, 4-th group – animals with pathology treated with preparation “Korvitin”.

As a result of the experiment was found, that single intramuscular injection of 0.1% - 1.0 adrenalini hydrochloride solution lead to substational changes in myocardium and serum of blood.

In the group of animals with control pathology changes peculiar for acute ischemic-necrotic processes was of serious in myocardium. Number of heart contraction were increased by 35% systolic index was decreased by 30%, shift segment S-T from isolinea.

Adrenalinas damage was combined with peroxide oxidation: TBA level – reagents in homogenate and serum increased by 2.9 times glutathione decreased by 1.7 times ASAT increased by 2 times. Pathology of myocardium was characterized by development of proliferation and exudation processes in myocardium that promoted increases of heart mass coefficient by 1.2 times in group animals with control pathology in comparison with intact control.

Application of “Latirona” and “Korvitina” lead to decrease cardiotoxic effects of large doses of adrenaline: decreasing of number of heart contraction by 20%, increasing of systolic index by 65%, decreasing of phenomena ischemia (segment ST in normal).

Result. Application of “Latiron” notice increases level glutathione in serum blood by 30% in homogenate of myocardium by 60% in comparison with not treatment animals.