AN ANTIPLATELET AGENT, CILOSTAZOL, ATTENUTATES MYOCARDIAL DAMAGE INDUCED BY ABDOMINAL AORTA ISCHEMIA/REPERFUSION IN A RAT MODEL

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C0103
AN ANTIPLATELET AGENT, CILOSTAZOL, ATTENUTATES MYOCARDIAL DAMAGE INDUCED BY ABDOMINAL AORTA ISCHEMIA/REPERFUSION IN A RAT MODEL

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Background: Perioperative myocardial infarction is a devastating complication of surgical procedures of abdominal aorta. Ischemia/ reperfusion via clamping and declamping of the aorta leads to remote organ damage and the major part of this damage occurs upon reperfusion via oxygen free radicals. An antiplatelet agent, Cilostazol is analyzed in this study for its cardio protective effect following abdominal aota ischemia/reperfusion model in rats.
Methods: Twenty-eight male Spraque-Dawley rats were randomized as sham group (I/R, n=8), control group (n=8), and I/R+Cilostazol (n=8, 100mg/kg orally administered before ischemia) groups. Ischemia and reperfusion was induced by clamping the infrarenal aorta for 2 hours and declamping for reperfusion for 4 hours. Myocardial tissue assays were performed for lipid peroxidation product malondealdehyde (MDA) and Glutathione Reductase (GR) and Glutathione Peroxidase (GPx) levels were also studied. Myocardial tissues were also examined histopathologically under light microscopy.
Results: Cilostazol attenuated myocardial cell damage occurred by downregulating the level of MDA and upregulating the levels of GPX and GR. These results are confirmed also with the histopathological results.
Conclusions: These results suggested that one dose oral administration of Cilostazol effectively ameliorates the ischemia/reperfusion induced oxidative damage of myocardial tissue via its antioxidant and anti-inflammatory potential.

C0134
REACTION OF HAEMOSTASIS AND FIBRINOLYSIS, PROVOKED BY WEAK STATE MAGNETIC FIELD DURING LEARNING PROCESS IN RATS

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Background: It is well known that informational overloads can provoke different physiological and mental disorders, causing cardiovascular, nervous and internal diseases. As a rule cognitive activity of modern humans is realized in condition of increased level of magnetic field (MF), produced by different electronic constructions (computers, TV, laboratory and life technics, etc.). One of component of complex MF environment is static magnetic field (SMF), with little value of MF induction. The aim of this work is to show, that even small SMF influences can cause significant biochemical, physiological and behavioral changes in in organism of experimental rats, if these influences are coinced with moderate cognitive and informational load.
Methods: Wistar rats were learning to solve cognitive foodseaching task during some repeating procedures (N 30) Learning were observed in two situations: on the background of natural MF with 32±2 μT (microtesla) induction (1-st group) and on the background of static MF - SMF-, formed by three magnets, placed under the maze (2-nd group). Control group was represented by rats with free behaviour in conditions of living room. The parameters of haemostasis and fibrinolysis were determined in blood, taken from v.jugularis before and after learning process.
Results: Unlike control and 1-st group the explorative activity in all SMF induced rats was suppressed and required external stimulation for success. The formed habits in these animals were very unstable and was accompanied by active stress and neurotic reactions. The learning process, taking place without SMF load, led to weak activation of anticoagulant activity (AT-111) and some parameters of haemostasis (fibrinogen level rising), supported by light activation of fibrinolysis (euglobulin clot lysis time - ECLT- decreased on 25%, t-PA activity raised on 20% ($p<0.02$)) The learning process alone is natural factor of rats living and did not cause significant modulation of haemostasis and fibrinolysis. But SMF adding led to sharp changes of biochemical parameters. AT-111 activity fell to 36-72% in 84% of rats, APTT decreased twice in 86% of rats, PAI-1 activity fell till 100%, t- PA-activity increased in 2.5 times. This is regulatory reaction in normal rats
Conclusions: Learning process in normal rats in condition of SMF activated coagulation and regulatory defence fibrinolysis. But real living situation (age, stress, trauma, etc.) can break regulatory mechanism and provoke prethrombosis and thrombosis

C0203
SPECIAL FEATURES OF THROMBOLYSIS PRODUCED BY THROMBOLYTIC PREPARATION LONGOLYTIN

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Background: Longolytin is the proteases's complexes, isolated from cultivate fluid during cultivation of suprophyte low fungi Arthrobotrys longa. It is a new thrombolytic substance, studied in vitro and in vivo experiments as in intravenous introduction to v.jugularis to rats, and in external thrombolysis by application to thrombi, formed in surface ear marginal rabbit's vein. The aim of this work is to present the peculiarity of thrombolytic action of longolytin on thrombi in ear marginal rabbit's vein.
Methods: Thrombi were formed in surface ear marginal rabbit's vein by thrombin injection to clumping segment of vein. After thromb was stabilized clumps were taken off, and longolytin gel (0.3-3% concentration in glycerol) was applying every hour during 7-8 hours. There were determined changes of thrombus size by visual control (as product of two perpendicular diameters of thrombus in mm^2) and was calculated the velocity (V.) of thrombus dissolution (the ratio of thrombus size to time mm^2/min)
Results: There were revealed the next peculiarities of thrombolysis by longolytin. 1) Big thrombi dissolved with more great velocity (V.) than small ones. If thrombi size was 20-40mm^2, V. of thrombolysis was 0.04-0.12 mm^2/min, if thrombi size was 3-10 mm^2, V. was 0.02-0.04 mm^2/min. 2) Fresh thrombi dissolved faster, than old ones. V. thrombolysis in first 3 hours was 1.5 times greater, than in next 7 hours. 3) There were not observed dependence of V. of thrombolytic process on longolytin doses in interval 0.3-3%. 03% longolytin (10 cases), 1% (12 cases) and 3% (15 cases) dissolved with V. 0.08-0.10 mm^2/min. It was could be as result of polycomposition of longolitin, possible presentation of fibrinolysis inhibitors or other substances in its compound. 4) Thrombolytic action of longolytin varied in dependence on different reasons: individual peculiarity of every rabbit (individual variations of different parameters were significant), season, cosmic influences (V. thrombolysis in summer was greater than in winter). In individual rabbit V. thrombolysis was greater in right ear, than in left ear.
Conclusions: Longolytin is not toxic, its production is simple and not expensive. It revealed good thrombolytic properties on external rabbits thrombi. It is perspective preparation for treatment of surface thrombi.

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