

ABSTRACT BOOK

5th International Scientific Interdisciplinary Conference for medical students and young doctors



<http://isic.kharkov.ua>

Kharkiv National Medical University, Kharkiv, Ukraine

April 25th-26th, 2012

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Kalchuk R.
NEUROHORMONAL AND METABOLIC PARAMETERS
OF ORAL MUCOSA INFLAMMATION IN IMMOBILIZED RATS

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Aim: to investigate the state of oral mucosa in inflammation, immobilization stress and their combination in experiment on rats.



Materials and methods. The research was performed on 24 male Wistar rats aged 6 months with $169,0 \pm 3,24$ g of mean body weight. Immobilization was conducted in a box-cage during 15 days 5 hours daily. Inflammation was provoked by 5-minutes rubbing of gums with 4 % caustic sodium solution under thiopental narcosis. Neurohormonal parameters — thymus, adrenals and spleen weight coefficients in % related to body mass, level of ascorbic acid in adrenal glands by spectrophotometry, eosinophils in blood by leucocytes formula state of oral and gastric mucosa in points, parameters of lipids peroxidation and anti-oxidation defense by levels of malonic dialdehyde, diene conjugates, superoxide dismutase and catalase activity in blood by spectrophotometry were estimated. Reliability was approved by statistical analysis at $p < 0,05$.

Results. It was stated that in inflammation of oral mucosa disturbances of neurohormonal processes typical for emotional stress, decrease of thymus weight coefficient ($p = 0,03$), increase of adrenals and spleen weight coefficients ($p = 0,04$ and $p = 0,01$), elevation of ascorbic acid ($p = 0,04$) and cortisol ($p = 0,04$), eosinopeny ($p = 0,04$) and trophic disorders of stomach appear in rats. These changes are accompanied by oxidation balance shifts — increase of malonic dialdehyde, diene conjugates in blood serum and decrease of superoxide dismutase and catalase activity ($p = 0,05$). Comparison of data from rats with modeled inflammation, stress and their combination represents predominance of changes in last case. Close correlation link between neurohormonal changes and lipid peroxidation-antioxidant defense parameters was stated ($r > 0,75$).

Conclusion. Revealed data about neurohormonal and oxidation-metabolic parameters of oral mucosa inflammation and stress testify their pathogenetic community and opens the perspective of further research — experimental substantiation of clinical use of anti-stress medications of neurometabolic action.

Kaligin M., Plushkina A., Gazizov I., Andreeva D., Titova A., Sharipova E.
INSULIN AND GLUCAGON EXPRESSION IN RAT'S PANCREAS
DURING ALLOXANDIABETES

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Introduction. Hyperglycemia during diabetes mellitus type I is developing because of lack of insulin level in blood, which is produced by B-cells in islets of Langerhance. Whereas nowadays it is unknown how A-cells, which produce the antagonist of insulin- glucagon, react on the hyperglycemia.

Aim. That's why the aim of our study was to study the dynamic of insulin and glucagon expression in islets of Langerhance in rats pancreas during the alloxan diabetes.

Material and methods. The work was made on 45 rats, which were injected intraperitoneally with alloxan, in dose of 180 mg/kg. Blood glucose levels were measuring 1, 2, 3, 5, 7 days after injection. The organs were taken 1, 2, 3, 5, and 7 days after the injection. Material was fixed in 10% neutral formalin and embedded in paraffin by standard methods. Histological sections of the pancreas were studied