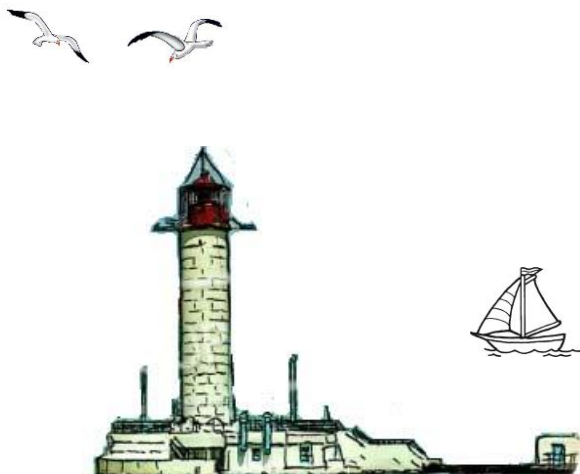


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**ПДВИСОЦЬКИЙ
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1900-1905

**ENDOCRINE PART OF THE PANCREATIC DYSFUNCTION
DURING OVEREATING IN RATS**

**ЕНДОКРИННА ЧАСТИНА ПІДШЛУНКОВОЇ ЗАЛОЗИ
ПІД ЧАС ПЕРЕЇДАННЯ У ЩУРІВ**

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It is a well-known fact that an unbalanced diet and fats in the daily diet, both in humans and in animals, is one of the main factors in the occurrence of excess body weight and obesity, which are considered risk factors for the development of various somatic and endocrine pathologies. among which diseases of the pancreas (in particular, chronic pancreatitis) and diabetes are a particularly relevant problem.

The purpose of the study was to clarify pancreatic dysfunction by studying the peculiarities of its morphological changes and the functional state of the endocrine part of the pancreas during overeating in rats.

Materials and methods. Rats of the main group received an unbalanced diet with a high content of carbohydrates and fats. A control group of animals in standard vivarium conditions received a physiologically balanced diet.

The results. Variants of pancreatic dysfunction (hyperpancreatism and hypopancreatism) were determined in rats under the influence of an unbalanced diet with an increase in fats and carbohydrates. Hyperinsulinemia was determined in combination with hypercorticosteronemia (in mother rats of the main group), which leads to the activation of catabolism processes, with the development of hyperglycemia, hypoproteinemia, as well as an increase in non-esterified fatty acids and ketone bodies. It was established that the rats of the main group have pronounced disorders of the morphology and function of the pancreas (revealed processes of compensatory hyperplasia and hypertrophy with simultaneous strengthening of dystrophic and sclerotic processes).

Conclusion. An unbalanced diet with an excess of nutrients is a risk factor for the development of chronic pancreatic insufficiency and diabetes in the future.

Keywords: rat, pancreas, morphofunctional state, overeating.

Ключові слова: шур, підшлункова залоза, морфофункціональний стан, переїдання.

УДК 612.46

VASCULAR MECHANISMS OF RENAL DYSFUNCTION IN OBESE PATIENTS

СУДИННІ МЕХАНІЗМИ НИРКОВОЇ ДИСФУНКЦІЇ У ХВОРИХ З ОЖИРІННЯМ

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Introduction. The urgency of the problem of kidney damage in obese patients is due to an increase in the frequency of nephropathies associated with metabolic disorders, a tendency to progressive course and the need to optimize their early diagnosis. In recent studies, a direct damaging effect on the structure of renal tissue, renal vascular endothelial of hypercholesterolemia, atherogenic lipid fractions, prostaglandins, cytokines produced by adipose tissue - leptin, TNF- α , IL-1,6,8 was found. Determination of markers of endothelial dysfunction is currently relevant in many diseases, including kidney disease. Endothelial dysfunction in patients with chronic kidney disease is considered as an imbalance between vasoconstrictors and relaxing factors, between anti- and procoagulants, growth factors and their inhibitors. The connection between endothelial dysfunction and kidney damage seems to be logical, but insufficiently studied.

Purpose: to study urokinase activity of urine (UA), excretion of nitric oxide (NO), as an endothelial-relaxing factor, and their relationship with changes in renal excretory function in patients with grade I obesity.

Material and methods. 19 patients with obesity of the 1st degree (BMI = 30-34.9 m²) at the age from 32 to 56 years old and 20 practically healthy persons were examined. Visceral obesity was also assessed by waist circumference: more 102 cm in men, 88 cm in women. The functional state of the kidneys was assessed using the clearance method under conditions of 12-hour spontaneous nocturnal and 2-hour induced

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