



INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN IT AND ENGINEERING

Volume 10, Issue 11, November 2021



RESEARCH BUBLISHING ASSOCIATION ASSOCIATIO

ISSN: 2278-6244

IMPACT FACTOR(2021): 7.436

GREENFIELD ADVANCED RESEARCH PUBLISHING HOUSE

International Journal of Advanced Research in IT and Engineering

(ISSN: 2278-6244) Volume 10, Issue 11, November 2021

1.	MECHANISMS FOR THE DEVELOPMENT OF "TOURIST VILLAGE", "TOURIST 1-6 NEIGHBORHOOD", "TOURIST VILLAGE" IN NAMANGAN REGION		
	Xasanov Azamat Ozodovich Hamidov Oybek Umarjon o'g'li		
2.	EFFECTIVE USE OF DECORATIVE LIGHTING IN A MODERN URBAN ENVIRONMENT	7-12	pdf
	Sh.Sh.Tursunov		
3.	ENHANCING THE SPATIAL IMAGINATION OF HIGHER EDUCATION STUDENTS THROUGH COMPUTER SIMULATIONS IN PERFORMING GEOMETRIC PROBLEMS	13-32	pdf
	Shonazarov Adham Odiljanovich		
4.	OPTIMIZE THE EFFICACY OF IRON DEFICIENCY ANEMIA STUDENTS WITH IRON DEFICIENCY ANEMIA WITH LOCAL HERBAL PRODUCTS	33-36	pdf
	Ermatov Nizom Jumaqulovich Nasirdinov Mavlonjon Ziyomiddinovich		
5.	ISSUES OF USE OF UZBEK TRADITIONAL MUSIC CULTURE IN THE EDUCATIONAL PROCESS	37-44	pdf
	M.I.Ergashev		
6.	CHALLENGES AND SOLUTIONS OF FORMATION OF COMPETITIVE ENVIRONMENT IN REGULATION OF NATURAL MONOPOLIES	45-58	pdf
	Saidov Mashal Samadovich		
7.	MORPHOLOGICAL STATE OF THE JEJUNAL WALL IN RAT PUPS BORN UNDER CONDITIONS OF DIABETES MELLITUS IN THE MOTHER	59-61	pdf
	Adilbekova D.B., Makhatova G.D.		
8.	PRESCHOOL EDUCATIONAL DEVELOPMENT GAMES	62-65	pdf
	Khushnazarov Fakhriddin Rakhimovich		
9.	FONDNESS IN ENGLISH AND UZBEK	66-74	pdf
	Khushnuda Batirovna SAMIGOVA Mirzoulughov Shakhzod Bekhzod oghli Rakhimova Charos Odiljonovna		
10.	PROSPECTS FOR THE DEVELOPMENT OF RADIO ELECTRONIC SYSTEMS OF THE ARMED FORCES OF FOREIGN COUNTRIES	75-80	pdf
	Narkulov Kh.Yu Arziyev D.A.		
11.	LINGO-PRAGMATIC AND LINGO-CULTURAL ASPECTS OF MENTAL LEXICON IN MASS MEDIA CONTEXT	81-88	pdf
	Shoira Jabbarova		
12	FONDNESS IN ENGLISH AND UZBEK	29-92	ndf

GREENFIELD ADVANCED RESEARCH PUBLISHING HOUSE

Khushnuda Batirovna SAMIGOVA Mirzoulughov Shakhzod Bekhzod oghli Rakhimova Charos Odiljonovna

13. TARGETED AND EFFECTIVE USE OF INVESTMENT IN CONSTRUCTION INDUSTRY

99-106 pdf

Ilhomjon Karimovich Giyosov Inomjon Ortikbayevich Karimov

ISSN: 2278-6244

Impact Factor: 7.436

MORPHOLOGICAL STATE OF THE JEJUNAL WALL IN RAT PUPS BORN UNDER CONDITIONS OF DIABETES MELLITUS IN THE MOTHER

Adilbekova D.B.,

Makhatova G.D.

Tashkent Medical Academy, Tashkent, Uzbekistan

Annotation. Experimental diabetes mellitus causes inflammatory-dystrophic changes in the vascular-tissue structures of the jejunal wall. In the development of the established patho morphological disorders of the postnatal development of the vascular-tissue structures of the jejunum, the leading role is played by the violation of the morphofunctional state of the intraorgan vessels of the microcirculatory bed of the organ, which subsequently leads to a violation of the trophism of tissue structures and dystrophic and degenerative changes.

Key words: small intestine, experimental diabetes, morphology

INTRODUCTION. Recently, the disease diabetes mellitus, as the most widespread endocrine disease, has become a medical and social problem for many countries of the world. This is largely due to the fact that with this disease the incidence of various complications is quite high, which lead to a decrease in the working capacity of patients and often to disability.

Material and research methods. The objects of our morphological study were materials from the lean part of the small intestine of white rat pups on the 14th, 21st, and 30th days of postnatal life. To create a model of diabetes, rat pups on the 14th day of postnatal life were injected intraperitoneally with alloxan in acetate citrate buffer at the rate of 11 mg% per 100 g of weight. The work used morphological, morphometric, vascular injection research methods.

Results. The results of our studies showed that in the early periods of postnatal life of animals suffering from experimental diabetes mellitus, inflammatory-dystrophic changes were observed in the jejunal mucosa. The stroma of the mucous membrane is edematous, dilated, infiltrated by mononuclear cells. The epithelial cells are swollen, low-cylindrical in shape, the boundaries between them are not clear. Cell nuclei are polymorphic and are less

ordered in the basal part of cells. The mucous membrane contains a large number of spherical goblet cells, the nuclei are sickle-shaped and pressed against the basal part of the cells. Electron microscopic studies have shown pronounced intercellular edema and expansion of intercellular spaces. The epithelial cells are swollen. Microvilli are reduced, with destructive changes. Goblet cells are filled with secretions and have a moderate electron density. Among the epithelial cells, intraepithelial lymphocytes are often detected, containing a light cytoplasm, poor in organelles. Their shape is irregular due to the numerous pseudopodia wedged into the interepithelial fissures. In the serous-muscular membrane, swelling, infiltration with cellular elements, dissociation and swelling of muscle fibers are noted. The blood vessels of the stroma of the villi are dilated, tortuous and filled with blood.

CONCLUSIONS. 1. Experimental diabetes mellitus causes inflammatory-dystrophic changes in the vascular-tissue structures of the jejunal wall.

2. In the development of the established pathomorphological disorders of the postnatal development of the vascular tissue structures of the jejunum, the leading role is played by the violation of the function of the intraorgan vessels of the microcirculatory bed of the organ, which subsequently leads to a violation of the trophism of tissue structures.

Literature

- Adilbekova D.B. Morphological state of the vascular tissue structures of the small intestine in offspring born to mothers with chronic toxic hepatitis under conditions of hepatitis correction // New Day in Medicine. - 2013.- №2 (2). - P. 62-65.
- Azizova F.Kh., Atadzhanova A.N., Ishanzhanova S.Kh. Structural features of the reaction of the immune system of the small intestine to antigenic effects in different periods of postnatal ontogenesis // Scientific Foundation "Biologist". - 2014. - №3. - P. 23-26.
- 3. Akhmedov A.G., Ibrokhimova L.I., Rasulova N.B. Vascular tissue changes in the wall of the small and large intestine in old rats against the background of diabetes mellitus // Morphology. 2014. T. 145, №3. P. 23.

ISSN: 2278-6244

Impact Factor: 7.436

- Gromova LV, Polozov AS, Grefner NM Absorption of glucose in the small intestine of rats with experimental type 2 diabetes // Gastroenterology of St. Petersburg. - 2018. - No. 2. - P. 61-62.
- Gromova L.V., Polozov A.S., Kornyushin O.V., Grefner N.M., Dmitrieva Yu.V., Alekseeva A.S., Gruzdkov A.A. Absorption of glucose in the small intestine of rats in experimental type 2 diabetes // Journal of Evolutionary Biochemistry and Physiology. - 2019.
 No. 2. - P.145-147.
- 6. Dobrynina I.V. Morphofunctional characteristics of the wall of the small intestine in early postnatal ontogenesis // Resource-saving environmentally friendly production and processing technologies
- 7. Damm P, Houshmand-Oeregaard A, Kelstrup L, Lauenborg J, Mathiesen ER, Clausen TD. Gestational diabetes mellitus and long-term consequences for mother and offspring: a view from Denmark // Diabetologia. 2016. Vol.59 (7). P. 1396-1399.
- 8. Golalipour MJ, Kafshgiri SK, Ghafari S. Gestational diabetes induced neuronal loss in CA1 and CA3 subfields of rat hippocampus in early postnatal life // Folia Morphol (Warsz).
 2012. Vol.71 (2). P. 71-7.
- 9. Li X, Luo SJ, Zhang K, Yang HX. Streptozotocin-induced maternal intrauterine hyperglycemia environment and its influence on development and metabolic in adult offspring with high birth weight in rats // Zhonghua Fu Chan Ke Za Zhi. 2012. Vol.47 (10). P. 769-76.
- 10. Ozkan H, Topsakal S, Ozmen O. Investigation of the diabetic effects of maternal high-glucose diet on rats // Biomed Pharmacother. 2019. Vol.110. P. 609-617.

ISSN: 2278-6244

Impact Factor: 7.436