

CELL MORPHOLOGY OF THE DIFFUSE ENDOCRINE SYSTEM OF THE SMALL INTESTINE OF WHITE RATS

Tuev Khamza Muhammadovich

Bukhara State Medical Institute

The aim of this study is to study the morphological and morphometric features of the endocrinocytes of the small intestine.

Material and methods. The material for our research was the small intestine of 15 white outbred rats. Animals were sacrificed under etaminal sodium anesthesia. The small intestine of rats was rolled up and fixed in Bouin's fluid. To study the small intestine, the material was taken from various parts of the duodenum, jejunum and ileum. Cryostat sections from unfixed material were treated with a solution of glyoxylic acid to detect endocrinocytes containing fluorogenic amines. The ratio of catecholamines and serotonin was studied using the FMEL-1A attachment on a LUMAM-I2 luminescent microscope. Conducting and pouring the material into paraffin is performed according to the generally accepted method. Serial paraffin sections from the material were stained with hematoxylin-eosin according to Van Gieson and impregnated with silver nitrate according to the Grimelius method. The density of apudocytes was determined by the point method.

Research results. Endocrine cells of open and closed types are permanent structural components of the mucous membrane of the small intestine wall of laboratory animals. These cells are located in the epithelium of the small intestine. There are more open type endocrinocytes in the composition of the epithelium of the villi of the small intestine, and closed type - in the composition of the epithelium of the crypts. The shape of these cells is varied. On histological preparations, endocrinocytes of the open type are predominantly cone-shaped. The shape of cells of a closed type depends on the amount of secretory material impregnated with silver nitrate, and on the level of passage of the microtome knife through the body of these cells at the time of preparation of the preparation. The highest concentration of these cells is noted in the composition of the epithelium of the mucous membrane of the duodenum and in the terminal ileum, that is, where digestion moves to a qualitatively new level. The highest concentration of these cells is found in the region of the descending duodenum, where the pancreatic excretory duct and the common bile duct open. At the same time, the concentration of endocrinocytes is higher not on the side of the mouth of these ducts, but on the wall of the duodenum opposite to them.

1. Garin A. M., Bazin I. S. Malignant tumors of the digestive system. Moscow: Infomedia Publishers, 2003.
2. Grinevich Yu.A. Immunotherapy in the antitumor and antirelapse treatment of cancer patients / Yu.A. Grinevich // Doctor. - 2003. - No. 4. - S. 32-34.
3. Korobkova L.I. The role of the immunomodulator galavit in oncological and surgical practice / L.I. Korobkova, L.Z. Velsher, A.B. Germanov // Ross. biotherapist. magazine - 2004. - V. 3, No. 3. - S. 75-78.
4. Kadagidze Z.G. Cytokines / Z.G. Kadagidze // Prakt. oncology. - 2003. - V. 4, No. 3. - S. 131-139.
5. Manko V.M. Immunomodulation: history, development trend, current state and prospects / V.M. Manko, R.V. Petrov, R.M. Khaitov // Immunology. - 2002. - No. 3. - S. 132-138.
6. Guidelines for chemotherapy of tumor diseases / Ed. N.I. Translator. - M., 2012. - 697 p.
7. Prokhach N.E. Modern experience and prospects for the use of immunomodulators in the complex therapy of cancer patients / N.E. Prohach, P.P. Sorochan, I.A. Gromakova // International medical journal. - 2006. - No. 4. - S. 86-93.
8. Khaitov R.M. Basic principles of immunomodulatory therapy / R.M. Khaitov, B.V. Pinegin // Allergy, asthma and clinical immunology. - 2000. - No. 1. - S. 9-16.
9. Olimova Aziza Zokirovna, (2021, July). COMPARATIVE CHARACTERISTICS OF THE MORPHOLOGICAL PARAMETERS OF THE LIVER AT DIFFERENT PERIODS OF TRAUMATIC BRAIN INJURY. In Euro-Asia Conferences (pp. 139-142).
10. Olimova Aziza Zokirovna. Частота Встречаемости Миомы Матки У Женщин В Репродуктивном Возрасте. JOURNAL OF ADVANCED RESEARCH AND STABILITY (JARS). Volume: 01 Issue: 06 | 2021. 551-556 p
11. Olimova Aziza Zokirovna, Sanoyev Bakhtiyor Abdurasulovich. OVARIAN DISEASES IN AGE OF REPRODUCTIVE WOMEN: DERMOID CYST. Volume: 01 Issue: 06 | 2021. 154-161 p
12. Olimova Aziza Zokirovna. РЕПРОДУКТИВ ЁШДАГИ ЭРКАКЛАРДА БЕПУШТЛИК САБАБЛАРИ: БУХОРО ТУМАНИ ЭПИДЕМИОЛОГИЯСИ. SCIENTIFIC PROGRESS. 2021 й 499-502p
13. Olimova Aziza Zokirovna .MACRO- AND MICROSCOPIC STRUCTURE OF THE LIVER OF THREE MONTHLY WHITE RATS. ACADEMIC RESEARCH IN EDUCATIONAL SCIENCES /2021 й. 309-312 p
14. Sanoyev Bakhtiyor Abdurasulovich, Olimova Aziza Zokirovna. Pathology of Precancerous Conditions of the Ovaries in Women of Reproductive Age. Volume: 01 Issue: 06 | 2021.