



FEATURES OF MORPHOMETRIC INDICATORS OF THE COLON IN EXPERIMENTAL PULMONARY PNEUMOSCLEROSIS

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Summary

Despite the existence of publications on the effects of experimental pulmonary fibrosis, their effects on immune organs in early postnatal ontogenesis are not sufficiently elucidated and not studied. All this, of course, makes it difficult to correctly interpret the functional significance of the lymphoid elements of the large intestine in normal and pathological conditions. This review is devoted to the features of the morphometric parameters of the large intestine in experimental pulmonary pneumosclerosis.

Keywords: pulmonary pneumosclerosis, lymphoid elements, postnatal ontogenesis.

Relevance

Recently, a number of experimental studies have appeared that significantly expand the general idea of the role and significance of the body's lymphoid structures. Lymphoid tissue of the human intestine plays an important role both in the general immunological defense of the body and in the local maintenance of immunity. Of particular relevance are studies of changes in the structure of this tissue in practically healthy people of older age groups and against the background of modern unfavorable environmental and social conditions of human life (Grigorenko D.E., Aminova G.G., 2003).

Disorder of the functions of one of the sections of the digestive tract can lead to a violation of the function of other organs. Age-related changes in the structure of the digestive system and its functions are inextricably linked with the characteristics of the life of the organism at each stage of its development, with energy and plastic needs, with nutritional characteristics (D.E. Grigorenko, K.A. Vasyanina 2015).

The pathology of the digestive system occupies one of the leading places in the structure of human morbidity and mortality. At the heart of diseases of the digestive system are violations of embryonic development, violation of the diet and structural and functional support of the digestive process. The digestive system is sometimes referred to as the gastrointestinal tract, but neither name fully describes the functions or components of the system. The organs of the digestive system also produce blood clotting factors and hormones that are not associated with digestion, help remove





toxic substances from the blood and chemically change (metabolize) drugs, and also participate in the body's immune response (P.A. Yelyasin, S.V. Zalavina 2018).

Among the various functions of the small intestine, barrier-protective is one of the leading ones, since it allows you to maintain and maintain homeostasis while simultaneously entering the circulation of absorbed plastic, energy substances and water. The digestive-absorptive and protective barrier functions are two sides of a complex process, the end result of which is the maintenance of homeostasis. As a result of the study of the last decades, the structural and functional features of the immune system of the mucous membrane of the small intestine, intestinal-associated lymphoid tissue have been established. (T. S. Huseynov, S. T. Huseynova 2017)

Studies of domestic and foreign authors show that the immune system is most vulnerable in extreme conditions (Horizontov P.D. et al., 1983; Konstantinova I.V., 1988; Korneva E.A., 1990; Trufakin V.A., 1994 ; Sapin M.R., 2000; Sapin M.R., Nikityuk D.B., 2000; Meder J., 1980; Anderson R., 1983; Freeland S., 1995; Jain S., 1996). In recent years, there has been a significant increase in interest in the study of immune functions at the tissue level in the form of a response to the influence of external factors.

In this regard, the reaction of the lymphoid tissue of the colon, which belongs to the peripheral organs of the immune system, is considered only from the standpoint of cellular immunology (Petrov R.V., 1976, Lebedev K.A., Ponyakina I.D. 1990). There is no information in the literature about structural and cellular transformations in the lymphoid structures of the large intestine in pulmonary fibrosis.

The most vulnerable structures that die during experimental pulmonary fibrosis are the epithelium of the mucous membrane and lymphoid formations of the intestinal wall (Nikolaeva N.V., Probatova N.A., 1958; London E., 1903; Rubderg H., 1907; Lavedan J. , 1924).

It is known that in the digestive system the state of lymphoid tissue is an indicator of local humoral immunity and immunological activity of the body as a whole (Sapin M.R., 1987; 2008; 2010; Hadden J.W., 1993; Borodin Yu.I., 1997; 2010; Belyakov I. .M., 1997; Russkina L.N., 1999; Sapin M.R., Nikityuk D.B., 2000; Aminova G.G., 2002; 2007; Grigorenko D.E., 2003; 2006; Guseinov T .S., 2010).

The protective function of the small intestine is represented by organized structures (single lymphoid nodules, Peyer's patches, appendix, mesenteric nodes) and lymphocytes located outside the lymphoid tissue. Among the peripheral organs of immunogenesis, a significant place is occupied by single lymphoid nodules and group or aggregated lymphoid nodules. They are called in the literature lymphoid Peyer's patches by the name of the author who first described their structure. (S.N. Lukanina,





A.V. Sakharov 2020). Peyer's patches are subepithelial group lymphatic follicles located in the small intestine, primarily in the ileum. As you know, among the immune formations of the digestive system, lymphoid plaques of the small intestine play an important role. They take part in immune reactions, lymphocytopoiesis, recirculation of lymphocytes. Gut-associated lymphoid tissue plays a significant role in the immune response and defense of the whole organism.

The multifunctionality of the small intestine determines its participation in many processes accompanied by immune responses that induce recovery. Given the migratory abilities of lymphoid cells, their ability to receive information and interact with other organs is expanding. They are able to provide a quick change of the program of the normal development of the organism to the reserve one and vice versa. Any damage caused by a particular pathology leads to a violation of the protective barrier of the small intestine, the development of toxemia, a decrease in immunity and a violation of homeostasis. (P.K. Permyakov et al.; Yu.G. Parkhomenko 2015).

Literature

1. Nuriddinov Asliddin Mehrididinovich MORPHOLOGICAL CHANGES OF HEART IN 3-MONTH-OLD NONBREED RATS UNDER THE INFLUENCE OF AN ENERGY DRINK // Web of Scientist: International Scientific Research 3 (10), 2022, 307-313
2. RI Israilov, BA Sanoev, AZ Olimova Pathologically Undifferentiated Placental Morphology in Primary Placental Insufficiency // American Journal of Medicine and Medical Sciences. Volume: 10 Issue: 09 | 2020. 660-663 p
3. Sanoev Bakhtiyor Abdurasulovich MORPHOLOGICAL AND MORPHOMETRIC CHARACTERISTICS OF THE PLACENTA IN NORMAL PREGNANCY.// DEVELOPMENT OF A MODERN EDUCATION SYSTEM AND CREATIVE IDEAS FOR IT, REPUBLICAN SCIENTIFIC-PRACTICAL ONLINE CONFERENCE ON "SUGGESTIONS AND SOLUTIONS" Issue: 06 | 2020. 94-96 p
4. БА Саноев, ТШ Ниёзова, НИ Хикматова МАКРО-И МИКРОСКОПИЧЕСКИЕ ПРОЯВЛЕНИЯ ЛЕЙОМИОМ МАТКИ // Новый день в медицине. Номер 2 . 2020. С. 526-528
5. Sanoyev Bakhtiyor Abdurasulovich, Olimova Aziza Zokirovna. Pathology of Precancerous Conditions of the Ovaries in Women of Reproductive Age. // Volume: 01 Issue: 06 | 2021.





6. Aziza Zokirovna Olimova, Sanoyev Bakhtiyor Abdurasulovich. OVARIAN DISEASES IN AGE OF REPRODUCTIVE WOMEN: DERMOID CYST. // Volume: 01 Issue: 06 | 2021. 154-161 p
7. Aziza Zokirovna Olimova, (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).
8. Aziza Zokirovna Olimova. Частота Встречаемости Миомы Матки У Женщин В Репродуктивном Возрасте. // JOURNAL OF ADVANCED RESEARCH AND STABILITY (JARS). Volume: 01 Issue: 06 | 2021. 551-556 p
9. Aziza Zokirovna Olimova. РЕПРОДУКТИВ ЁШДАГИ ЭРКАКЛАРДА БЕПУШТЛИК САБАБЛАРИ: БУХОРО ТУМАНИ ЭПИДЕМИОЛОГИЯСИ. // SCIENTIFIC PROGRESS. 2021 й 499-502p
10. Aziza Zokirovna Olimova. MACRO- AND MICROSCOPIC STRUCTURE OF THE LIVER OF THREE MONTHLY WHITE RATS. // ACADEMIC RESEARCH IN EDUCATIONAL SCIENCES /2021 й. 309-312 p
11. Aziza Zokirovna Olimova. Cytological screening of cervical diseases: pap test research in the bukhara regional diagnostic center for the period 2015-2019 // Web of Scientist: International Scientific Research 3 (7), 2022, 121-128
12. OA Zokirovna Technique for cutting biopsy and surgical material in the practice of pathological anatomy and forensic medicine // Web of Scientist: International Scientific Research Journal 3 (7), 2022, 116-120
13. Sadiev Erali Samiyevich, Namozov Farrux Jumayevich ENDOSCOPIC INTERVENTIONS AND OZONE THERAPY IN THE COMPLEX TREATMENT OF PATIENTS WITH MECHANICAL JAUNDICE AND CHOLANGITIS WITH CHOLEDOCHOLITHIASIS. ResearchJet Journal of Analysis and Inventions. 2021. 9(2),22-27
14. Sadiev Erali Samiyevich, Isroilov Rajabboy Israilovich ГЎДАКЛАР ТАСОДИФИЙ ЎЛИМИДА ЮРАК ЎТКАЗУВЧИ ЙЎЛЛАРИ ПАТОМОРФОЛОГИЯСИ. Central asian journal of medical and natural sciences. 2(5),152-156
15. Sadiev Erali Samiyevich PATHOMORPHOLOGY OF THE CARDIAC TRACT IN ACCIDENTAL MORTALITY OF INFANTS. WEB OF SCIENTIST:INTERNATIONAL SCIENTIFIC RESEARCH JOURNAL. Volume 2, Issue 10, Oct., 2021.64-70
16. Sadiev Erali Samievich, Jurayeva Gulbaxor Bakhshilloyevna BRONCHOPULMONARY COMPLICATIONS AFTER HEART SURGERY WITH





CONGENITAL DEFECTS. INTERNATIONAL JOURNAL FOR INNOVATIVE
ENGINEERING AND MANAGEMENT RESEARCH. Vol 10 Issue 01,
Jan 2021. 320-323

17. Sadiev Erali Samievich, Sanoyev Bakhtiyor Abdurasulovich HEART DISEASES IN FORENSIC MEDICAL PRACTICE: SUDDEN CARDIAC DEATH // World Bulletin of Public Health- Volume-8, March 2022. P. 76-79
18. Sadiev Erali Samievich, Sanoyev Bakhtiyor Abdurasulovich HEART DISEASES IN FORENSIC MEDICAL PRACTICE: SUDDEN CARDIAC DEATH// «Тиббиётда янги кун» 2 (40) 2022. P. 26-30.
19. Sadiev Erali Samievich, Sanoyev Bakhtiyor Abdurasulovich HEART PATHOLOGY IN THE PRACTICE OF FORENSIC MEDICAL AUTOPSY: CARDIOSCLEROSIS // «Тиббиётда янги кун» 2 (40) 2022. P. 31-34.
20. Кадырова, Л. В., & Рахимова, Г. Ш. (2021). Некоторые Аспекты Состояния Эндокринных Желёз Белых Крыс После Черепно-Мозговой Травмы. Central Asian Journal of Medical and Natural Science, 254-257.
21. Кадирова Лайло Валижановна, Нодирдинов Достон Мирзохидович, ОСОБЕННОСТИ ПАТОФИЗИОЛОГИЧЕСКОГО ТЕЧЕНИЯ СИНДРОМА ДЛИТЕЛЬНОГО СДАВЛИВАНИЯ, BARQARORLIK VA YETAKSHI TADQIQOTLAR ONLAYN ILMİY JURNALI: Vol. 2 No. 4 (2022): BARQARORLIK VA ETAKCHI TADQIQOTLAR ONLAYN ILMİY JURNALI 13-17.
22. Кадирова Лайло Валижановна, Махмудов Шохрух Сохибович ПАТОФИЗИОЛОГИЧЕСКИЙ ПОДХОД ИЗУЧЕНИЯ ГОРНОЙ БОЛЕЗНИ // Vol. 2 No. 4 (2022): BARQARORLIK VA ETAKCHI TADQIQOTLAR ONLAYN ILMİY JURNALI
23. Кадирова, Лайло Валижановна, Темиров, Тимур Ихтиярович ПАТОФИЗИОЛОГИЧЕСКИЙ ПОДХОД ИЗУЧЕНИЯ ЭЛЕКТРОТРАВМЫ // ORIENSS. 2022. № Special Issue 4-2. URL: <https://cyberleninka.ru/article/n/patofiziologicheskii-podhod-izucheniya-elektrotravmy> (дата обращения: 05.11.2022).
24. Лайло Валижановна Кадирова ИНТЕРАКТИВНЫЙ МЕТОД « БЛИЦ ОПРОС » ПРИ ПРЕПОДАВАНИИ ПРЕДМЕТА ПАТОЛОГИЧЕСКАЯ ФИЗИОЛОГИЯ, НА ПРИМЕРЕ ТЕМЫ: «ВОСПАЛЕНИЕ» // Scientific progress. 2022. №2. URL: <https://cyberleninka.ru/article/n/interaktivnyy-metod-blits-opros-pri-prepodavanii-predmeta-patologicheskaya-fiziologiya-na-primere-temy-vozpalenie> (дата обращения: 05.11.2022).



25. Кадилова Л.В. ОСОБЕННОСТИ МАКРОСКОПИЧЕСКОЙ ХАРАКТЕРИСТИКИ НАДПОЧЕЧНИКОВ 3-МЕСЯЧНЫХ БЕЛЫХ КРЫС ПОСЛЕ ТЯЖЕЛОЙ ЧЕРЕПНО-МОЗГОВОЙ ТРАВМЫ // ЎЗБЕКИСТОН РЕСПУБЛИКАСИ СОҒЛИҚНИ САҚЛАШ ВАЗИРЛИГИ ТОШКЕНТ ТИББИЁТ АКАДЕМИЯСИ . Вестник ТМА № 3, 2022 . С. 80.
26. Шодиев Ульмас Мустафоевич Морфологические характеристики яичек под воздействием радиации // Международный журнал инновационных анализов и новых технологий. № 6 , 2021. С. 218-222
27. Дилноза Саётовна Косимова. ИЗУЧЕНИЕ ЭЛЕМЕНТНОГО СПЕКТРА В КРОВИ У МЫШЕЙ С САХАРНЫМ ДИАБЕТОМ. // Современные инновации № 4 (38), 2020
28. Азиза Садиллоевна Жалилова, Дилноза Саётовна Косимова. Клинико–Лабораторная Характеристика Пациентов С Covid-19 И Предиктор Антибактериальной Терапии // CENTRAL ASIAN JOURNAL OF MEDICAL AND NATURAL SCIENCES. 2021. С. 81–86.
29. DS Kosimova, AV Paliuk. Prohibition of Discrimination: Concepts, Features and Obligations of the State according to the Convention for the Protection of Human Rights and Fundamental Freedoms // L. & Innovative Soc'y. 2021. С. 99.
30. АА Элмурадова, ДС Косимова, НШ Шадыева. Вклад Абу али ибн Сино в развитие фитотерапии // Новый день в медицине. 2020. №4. С. 604-606.
31. Дилноза Саётовна Косимова. О моделях экспериментального развития СД2 // Современные инновации. 2020. Т. 4 № 38 С. 13-14.
32. DS Kosimova, AU Adashev. Directions to increase productivity competitiveness in industrial enterprises // Economics and Innovative Technologies. 2019. №2. С. 17.
33. D. S Kosimova. The Genesis of the Franchising Legal Regulation. // JE Eur. L. 2018. 118-p. 37.
34. SU Mustafaovich ,Morphological Characteristics of Testicles under Radiation (2021.12.1)International Journal of Innovative Analyses and Emerging Technology № 1(6)P .218-222
35. Shodiev O'lmas Mustafaovich, Olimova Aziza Zokirovna. РЕПРОДУКТИВ ЁШДАГИ ЭРКАКЛАРДА БЕПУШТЛИК САБАБЛАРИ: БУХОРО ТУМАНИ ЭПИДЕМИОЛОГИЯСИ. SCIENTIFIC PROGRESS. 2021 й 499-502p
36. O'lmas Mustafaevich Shodiev(2021/11/29) Pathologies encountered in the kidney in the practice of forensic medical examination . Journal. Academia globe:Inderscience Research.№ 2(11) P .39-43



37. Shodiev O'lmas Mustafoevich, Expression level of anti-apoptotic protein Bcl-2 in bladder papillomas(2022/8/13).Web of Scientist: International Scientific research Journal. .№ 3(8) P .297-305
38. Shodiev O'lmas Mustafoevich, Khaidarova Nargiza Akhtamovana(2022/6/19) EPITELIAL SAFE TUMORS OF BLADDER RATE, TYPES AND CAUSES. Web of Scientist: International Scientific research Journal. .№ 3(6) P .905-912
39. Shodiev O'lmas Mustafoevich, Khaidarova Nargiza Akhtamovana(2022/6/19) .MEETING OF KIDNEY CYSTERS IN COURT MEDICAL AUTOPSY PRACTICE. Web of Scientist: International Scientific research Journal. .№ 3(6) P .893-898
40. Shodiev O'lmas Mustafoevich, Khaidarova Nargiza Akhtamovana(2022). Epitelial safe tumors of bladder rate,types and causes. Web of Scientist: International Scientific research Journal. .№ 3(6) P .905-912.
41. Khaidarova Nargiza Akhtamovana, Khotamova sarvinoz Muyitdinovna(2024/4/23). European Multidisciplinary journal of Modern Science. .№ 5 P .402-406
42. Khaidarova Nargiza Akhtamovana, PANOMORPHOLOGY OF FETUS ASPHIXIA. Web of Scientist: International Scientific research Journal. .№ 3(8) P .501-508.

