

**MORPHOLOGICAL CHANGES IN THE BRONCHI IN  
CHILDREN AGED 3 YEARS**

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**Abstract:** The airways are divided into the upper and lower respiratory tract, depending on their location in the body. The upper respiratory tract includes the nasal cavity, the nasal and oral part of the khalkum, the lower respiratory tract include the hiccups, trachea (throat), bronchi, and lungs. It has a tubular structure characteristic of its activity, keeping its cavity at the same level as it is a bone and a humerus in the respiratory wall. The inner surface of the respiratory tract contains glands that synthesize a slime substance consisting of a mucous membrane, the surface of which is covered with a hovering epithelium. Therefore, the mucous membrane, in combination with its protective function, purifies the air and, warming up, humidifies the air in the airway.

**Key words:** Morphological changes, control group, children, observation group.

**Introduction.** The Prexordial plate will be the source of the formation of the epithelium, while the mesenchyma forms the hyoid and mucous muscle

tissue, blood vessels in the wall of the organs of the respiratory system. The neuroectodermal floor is involved in the dressing of endocrine cells in aloxia. The respiratory system is considered to be a zone of formation in the development of a number of defects, therefore, in many cases, early diagnosis and treatment will allow to save the life of the fetus.

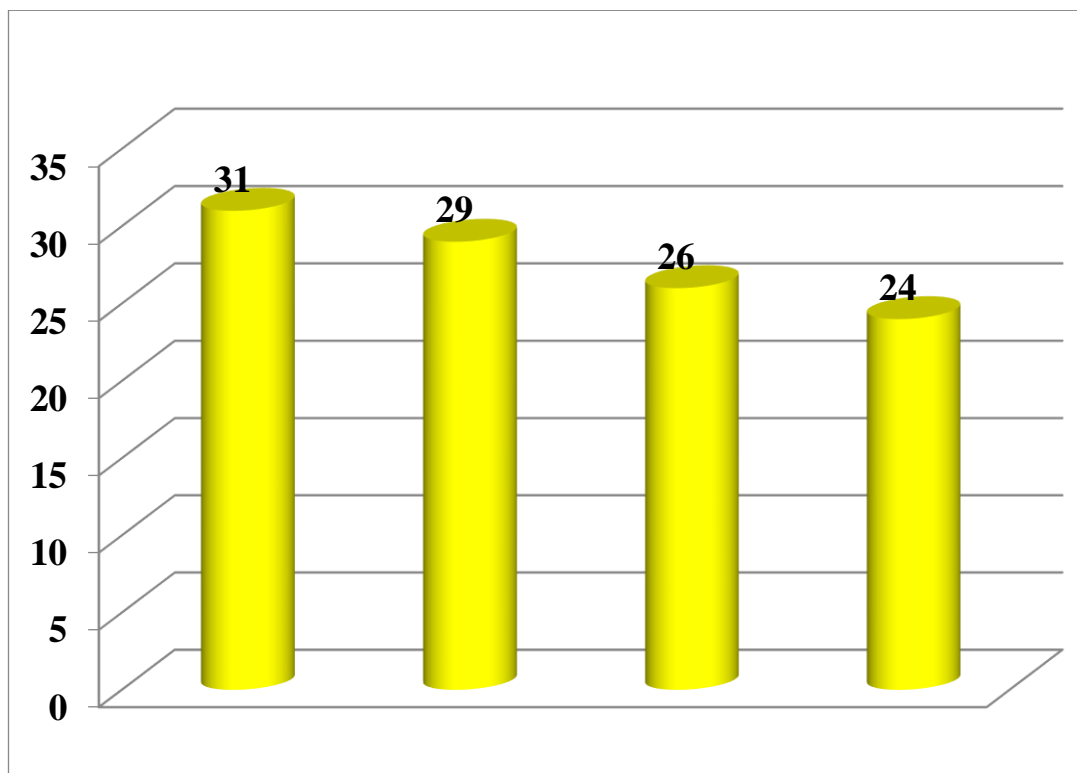
**The purpose of the study:** Analysis of changes in the morphometric characteristics of the bronchi in children of the first childhood 3 years of age

**Research materials and methods:** In order to achieve the goal set before us and to complete the tasks, autopsical materials were obtained from the remains of 55 first-child children in the postnatal ontogenetic stage of the pulmonary bronchi without diseases of the respiratory system. Examination at the Republican Center for pathological Anatomy 2024-2025 The first adopted in the i-quarter was carried on the corpse of children in childhood. Children who died under the influence of various factors, but whose respiratory system did not change, were studied in children's corpses who died as a result of mainly heart defects and other causes that did not have diseases in the pulmonary bronchial tract.

**Results of the study:** From this quantitative data, to the general conclusion, it was found that the bronchial wall covering epithelium thickened slightly less than twice during the early postnatal period from one month to the 12th month. It is known that it was observed that the connective tissue private plate of the mucous membrane of the bronx wall has an unformed structure at the age of one month of infancy, its intermediate substance is dominated by nardon and edema processes, its thickness is  $15.5 \pm 1.8\%$  of the thickness of all layers of the bronx wall. In the following months of the early postnatal period, it was found that cells and fibrous structures in the unformed connective tissue in the mucosal private plate were relatively Evolute, resulting in a decrease in

the tumor process in the intermediate, with its relative thickness at 3 months -  $14.8 \pm 1.7\%$ , at 6 months -  $13.2 \pm 1.7\%$ , at 12 months -  $11.8 \pm 1.6\%$ .

**Until childhood, it was found that the private platynka floor becomes thinner and denser 1.3 times**



The smooth muscle floor of the bronchial wall was conversely observed to begin at one month in the early postnatal period and to become more regularly thickened in its later months by both the number and size of muscle cells, while at  $10.5 \pm 1.5\%$  in one month it was found to have thickened by 4% by the 12th month and reached  $14.6 \pm 1.5\%$ .

**Conclusion:** 1. There are serous-mucous glands located in the mucous membrane, compared to the trachea, it was observed that they have a low number and immature structure.

### **References**

1. Nortaeva N.A., Nortaev A.B. Morphological changes in the teeth of adolescent children with hypotireosis // Collection of materials of the scientific and practical conference with international participation, dedicated to the 100th anniversary of the Tashkent Medical Academy, "100 years of the Tashkent Medical Academy – the era of great achievements and discoveries". Tashkent, 2022 -P. 199-200
2. Nortaeva N.A., Nortaev A.B. Morphological changes in the teeth adolescent children with hypotireosis // Problems of biology and medicine. - Samarkhand, 2022. - P 270. ISSN 2182-5674, <https://doi.org/10.38096/2181-5674.2022>
3. Nortaeva N.A., Nortaev A.B. Morphological changes in teeth against the background of experimental hypothyroidism // Topical issues of modern scientific research.-Dushanbe 2022.-P 168.
4. Nortaeva N.A., NortaevA.B. Morphological changes in the tooth in experimental hypothyroidism // Issues of innovative development of science, education and technology. - Andijan, 2022.-P 273-275
5. Nortaeva N.A., Nortaev A.B. To study the morphological changes in the tooth against the background of experimental hypothyroidism // Current problems of microbiology. - Tashkent, 2022 -P. 148-152
6. Nortaeva N.A. Morphological changes in teeth as a result of malnutrition in preschool children // Proceedings of the conference dedicated to the 95th anniversary of academician, morphologist, scientist Komiljon Zufarov. - Tashkent, 2021 -P. 34-36

7. Nortaeva N.A.. Morphological changes in the dental in experimental hypotireosis // Collection of materials of the scientific and practical conference of young scientists with international participation, dedicated to the 100 th anniversary of the Tashkent Medical Academy, «innovative approaches in medicine». Tashkent, 2022 -P. 51
8. Nortaeva N.A., Nortaev A.B. Anthropometric indicators of the maxillofacial system in school-aged children with hypothyroidism // Modern scientific research topical issues, achievements and innovations. Current scientific issues, current affairs, achievements and innovations. Penza, 2023 – P. 153. ISBN 978-5-00173-707-0
9. Nortaeva N.A., Akhmedova S. M., Nortaev A.B., Rajabov B.M. Changes in the face-jaw system of experimental hypothyroidism // Texas Journal of Medical Science <https://zienjournals.com> 2023 –P. 61-64 ISSN NO: 2770-2936
10. Nortaeva N., Berdiev O., Anthropometric dimensions of the maxillofacial system in children with hypothyroidism aged 8-16 year // Journal of Medicine and Innovations [www.tsdj.uz](http://www.tsdj.uz) 2023 –P. 230-235 ISSN 2181-1873
11. Nortaeva N.A., Nortaev A.B, Effects of hypothyroidism on the maxillofacial system // Uzbek journal of case reports 2023 –P.126, Tom 3. <https://doi.org/10.55620/ujcr.3.sp.2023>
12. 1. Usmanov R.Dj., Gulmanov I.D., Nortaev A.B. Development and prevalence of periodontal diseases in workers working with chemical paints // 100 years of the Tashkent Medical Academy – the era of great achievements and discoveries – 2022. P-244.
13. 2. Saidov A.A. Periodontal disease and its prevention in workers of the textile industry // Monograph-2020. 134 p.
14. 3. Volozhin A.I., Filatova E.S., Petrovich Y.A. and others. Evaluation of the state of the periodontal by the chemical composition of the environment of the oral cavity // Dentistry. -2000. №1- P. 13-16.

15. 4. Nortaeв A.B., Rajabov B.M. Oral inflammation in light industry workers // Texas Journal of Medical Science ISSN NO: 2770-2936. - 2023. P-84-86. <https://zienjournals.com>
16. 5. Nortaeв A.B., Usmanov R.Dj., Nortaeва N.A. Periodontal disease and its complications in 21-30-year-old chemical paint workers // Journal of medicine and innovations ISSN 2181-1873 2023.P-215-220 [www.tsdі.uz](http://www.tsdі.uz)
17. Nortaeв A.B., Usmanov R.Dj., Berdiev O.V. Use of cefixime in the treatment of periodontal disease in industrial employees // Farmaecutil journal №3, 2023 P. 77-80 UDK: 616.314.18-002.4-885:615.331:323.329
18. Nortaeв A.B., Usmanov R.Dj. Severe Consequences of the Development of Periodontal Disease in the Example of Employees Working in Light Industrial Plants // Texas Journal of Medical Science ISSN NO: 2770-2936 <https://zienjournals.com> Date of Publication:06-05-2023 P- 110-113
19. Nortaeв A.B., Usmanov R.Dj. Periodontal disease and its complications in 21-30-year-old chemical paint workers // Journal of oral medicine and craniofacial research Samarkhand - 2023. P.-21
20. Nortaeв A.B., Usmonov R.Dj. Periodontal disease and its development in the case of employees of chemical shops // Uzbek journal of case reports Part 3. Samarkhand - 2023. P.-130
21. Nortaeв A.B., Usmanov R.Dj., Rajabov B.M. The level of periodontal disease in 20-28-year-old textile industry workers // 77th International Scientific and Practical Conference "Achievements of Fundamental, Applied Medicine and Pharmacy". Samarkhand - 2023. P.-525
22. Nortaeв A.B., Usmanov R.Dj., Gulmanov I.Dj. Etiology of the development of periodontal disease in workers of the manufacturing industry // "Current aspects of the pathogenesis of diseases caused by environmental factors" Materials of international scientific and practical conference Tashkent – 2023. P-11-12