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# **SECTORAL RESEARCH XXI: CHARACTERISTICS AND FEATURES**

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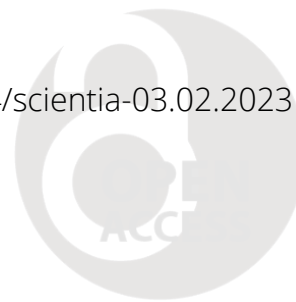


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CHARACTERISTICS AND FEATURES  
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## **SOME ASPECTS OF THE NASAL MICROBIOME IN IN PATIENTS WITH CHRONIC RHINOSINUSITIS**

**Introduction.** Currently, chronic rhinosinusitis (CRS) is considered a multifactorial disease, the causes of which can be changes in the microbiota, imbalance of the immune system, allergens, toxins, genetic predisposition. Understanding the factors governing colonization is important because both early and late microbial colonizers can have a significant impact on host physiology, especially with regard to the development of immunological and metabolic homeostasis.

**The aim of the study** was to identify the features of the nasal microbiome in order to understand the pathophysiological mechanisms of the development of chronic rhinosinusitis.

**Material and methods of research.** 120 patients with chronic rhinosinusitis (CRS) aged 18 to 65 years were examined. The control group included 36 people of the same sex and age. To assess the microflora of the nasal mucosa, the colonies grown on nutrient media were counted and the total microbial number (TMC) in 1 ml of the nasal mucosa in colony-forming units (CFU/ml) was calculated. The isolated bacteria were divided according to genus and species.

### **Results of the study and their discussion.**

In patients with CRS in the nasal cavity, a decrease in the number of normal commensals, an increase in epidermal staphylococci, hemolytic streptococci, and bacteria not specific to the microflora of the nasal cavity of healthy people were registered. It is noteworthy that the quantitative composition of gram-negative bacteria tends to multiply in the nasal mucosa in CRS. The overgrowth of nasal mucosal flora and the fact that most of the isolated strains synthesize pathogenic enzymes and have persistent properties are the reasons. Irrational treatment with systemic antibiotics often leads to a violation of the microflora and the development of antibiotic resistance, which proves the ineffectiveness of the treatment.

**Conclusions.** Comparison of microbiocenosis parameters with the characteristics of the course of the inflammatory disease showed that the severity of the pathological process of CRS depends on the degree of negative changes in microbiological parameters. Dysbiosis can be considered as a factor predisposing to the development of chronic inflammation of the paranasal sinuses. The study of the potential of the nasal microbiome can be used in the diagnosis and treatment of CRS.

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