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# Optimization of Orthopedic Treatment of Dentition Defects in Patients with Chronic Diseases of the Gastrointestinal Tract

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## ABSTRACT

An orthopedic dentist, choosing a material and method of prosthetics, should focus on the condition of periodontal tissues and digestive organs closely related to the oral cavity, since somatic pathology directly affects periodontal tissues and, therefore, largely determines the choice of method and materials for prosthetics.

## Keywords:

orthopedic dentist, periodontal tissues, periodontal tissues

**Introduction.** An orthopedic dentist, choosing a material and method of prosthetics, should focus on the condition of periodontal tissues and digestive organs closely related to the oral cavity, since somatic pathology directly affects periodontal tissues and, therefore, largely determines the choice of method and materials for prosthetics. It is obvious that the creation and use of biomechanically compatible dentures, especially in patients with pathologically altered periodontal diseases of the gastrointestinal tract, the choice of a dental prosthesis design depending on the specific clinical situation are urgent problems of modern clinical dentistry.

The mechanisms of structural periodontal changes in chronic diseases of the gastrointestinal tract have not been sufficiently studied. A certain role in these changes belongs to disorders of proliferation and apoptosis [Lepilin A.B. et al., 2015]. There are many factors that regulate apoptosis. The degree of changes in the cellular renewal of the gingival epithelium can be used both for the early diagnosis of periodontal disease and its prognosis [Osadchuk M.A., Bulkina N.V., 2017]. Also, the

problems of bone metabolism disorders against the background of various dentures in gastrointestinal diseases have not been sufficiently studied.

In the formation and course of periodontal diseases, numerous factors are important that contribute to a decrease in the reactivity of the body and lead to the development of secondary immune insufficiency [Oskolsky G.I. et al., 2017; Orekhova L.Yu. et al., 2018]. The relationship between groups of cellular regulators largely determines the nature of the course and outcome of various diseases [Grigorieva M.V. et al., 2017; Seymour G.J., Gemmel E., 2015]. However, to date, there are only isolated studies of the role of cytokines in the formation, course and outcomes of periodontal diseases against the background of dentures made of various materials.

The analysis of the literature data allows us to conclude that there is no systematic and reasonable approach to the choice of the material and design of a dental prosthesis, to pre-prosthetic preparation in patients with chronic gastrointestinal diseases. Given the insufficient knowledge of the problem as a

whole, the inconsistency of the available information, a comprehensive study devoted to the analysis of clinical, morphological and immunological characteristics of periodontal tissues for optimizing dental prosthetics in chronic diseases of the gastrointestinal tract becomes relevant.

### The purpose of the study:

Choosing the optimal type of orthopedic treatment of dentition defects in patients with chronic diseases of the gastrointestinal tract based on the analysis of clinical, functional, immunological, morphofunctional data.

### Research objectives:

1. In patients with dentures of various designs and materials against the background of chronic diseases of the gastrointestinal tract, determine the state of local immunity of the oral cavity.
2. To study the effect of fixed bridges made of different materials on the course of background chronic diseases of the gastrointestinal tract.
3. To develop an algorithm for the diagnosis and planning of orthopedic dental treatment, taking into account the morphofunctional state of periodontal tissues and immunological status.

### Scientific novelty of the study:

Taking into account the results of immunological reactions at the systemic and local levels, as well as data from immunohistochemical and analysis of markers of proliferation, regeneration and their regulators, indications for the use of various materials for orthopedic treatment of dentition defects in patients with diseases of the gastrointestinal tract are clinically and pathogenetically substantiated. A set of microbiological, biochemical, immunological, morphometric, immunohistochemical indicators was used to assess the effectiveness of prosthetics of dentition defects in patients with diseases of the stomach, liver, intestines.

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