

## **Modern aspects of the pharmacotherapy of periodontal diseases**

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Periodontal diseases are one of the most common diseases of modern dentistry, which takes the sixth place after cardiovascular, cancer and infectious diseases it often become systemic and long-term nature. The prevalence of this disease among adults and children is rather high, there is no tendency of its decline.

The principles of the pharmacotherapy of aforementioned diseases based on knowledges of the causes and mechanisms of their consisting of etiotropic (identification, elimination or inhibition of factors that cause inflammation), pathogenetic (effects on pathophysiological link of the inflammation processes) and symptomatic (impact of by certain remedy for individual symptoms for their weakening or elimination) treatment. Inactivation of microorganisms in removing microbial plaques is part of the etiological treatment, which is carried out by using of antiseptics. With the purpose of the pathogenic influence on inflammation in the early stages there are used remedies which are able to stabilize lysosomal membranes, to inhibit the action of hydrolytic enzymes, to suppress the action of inflammatory mediators due to functional antagonism and stimulate the formation of anti-inflammatory agents, and if there are harsh indications in diseases its rational to use the antibiotics and sulfonamides. Doctors prescribe to patients enzyme preparations of different mechanism of action for the final removal of residual tissues, bacterial biologics - probiotics, live microbial lysates of cultures - in order of correction of microbiocenosis, immunomodulators for the correction of immune processes and normalization of organism reactivity of patients with periodontitis, and also recommend macro-and micronutrients.

Given that inflammatory periodontal diseases and mucous membrane of oral cavity are accompanied, as noted earlier, by the number of pathological phenomenon, their treatment requires an integrated approach, wich can be realized with the help of medicament, which would be represented by acceptable dosage form (DF). Taking into account that such DF as tablets has several advantages: accuracy of dosing, the possibility of local prolonged action, convenience of application, the possibility of combination of several medicinal substances. That's why the development and subsequent implementation into the production of such DF will expand the range of domestic drugs for the treatment of periodontal and improve the efficiency of the pharmacotherapy.