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abstracts book
(May 19-22, 2016, Bratislava)



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EFFECTIVENESS EVALUATION OF COMPREHENSIVE
TREATMENT OF PATIENTS WITH CHRONIC GENERALIZED
PERIODONTITIS ASSOCIATED WITH ORAL LICHEN PLANUS
BY MONITORING LOCAL IMMUNITY INDICES

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One of the most important causes, which determine the possibility of conjoint contraction of chronic generalized periodontitis (CGP) and lichen planus (LP) and define their course, is the state of local mechanisms of defense of the oral cavity.

The goal of our research is assessment of sIgA in the oral fluid, C3 components of the complement, activity of lysozyme and beta-lysins in patients suffering from CGP and LA before and after treatment, as indices of positive influence of suggested complex therapy on the immunological course of CGP pathogenesis.

The object and methods of the research. 72 patients were examined and divided into 4 groups. The first group (20 people) comprised patients with CGP of initial and mild severity without LA. 32 patients with conjoint course of CGP associated with LA were divided into 2 groups (2 and 3). The second group (16 people) was represented by patients with CGP and LP without involvement of the oral mucosa; the third group (16 people) was represented by patients with involvement of the oral mucosa. The fourth observational group comprised patients with intact parodontium (20 people). Immunology research of the oral

fluid included study of lysozyme activity by means of nephelometric method and also assessment of sIgA, C3 components of complement and beta-lysins activity by enzyme linked immunoassay.

The results of the research and their consideration. In patients of all groups with CGP of initial and mild severity in the setting of lichen acuminatus of typical form (the second and third groups) as well as without lichen acuminatus (the first group) decrease of lysozyme, beta-lysins activity, C3 components of complement in the oral fluid is marked. Increase of concentration of sIgA by 2 (in comparison with the norm) has been detected.

After conservative treatment firm increase of lysozyme and beta-lysins activity in the oral fluid of the patients of all observational groups. Also we can see a positive dynamics in concentration of C3 fragments and normalization of sIgA level in the oral fluid.

Conclusions. Efficiency of our method of treatment of patients with CGP associated with lichen acuminatus is proved through recovery of indices of local non-specific immunity of the oral cavity such as lysozyme and beta-lysins activity and concentration of C3 fragments of complement as well as normalization of sIgA level directly after the course is finished and in 3 months after treatment.

Normalization of indices of local immunity of the oral cavity is accompanied by absence of symptoms of inflammation of parodontium tissue.

