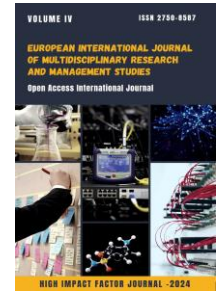


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**RESULTS OF COMPLEX TREATMENT OF CHRONIC DISSEMINATED PERIODONTITIS IN
PATIENTS WITH COVID-19*****Rahmonberdiya Rushana****Samarkand State Medical University, Uzbekistan****Chaqqonov Faxriddin Xusanovich****Samarkand State Medical University, Uzbekistan***ABOUT ARTICLE**

Key words: Periodontal diseases, chronic diffuse periodontitis, ozonation, sodium hypochlorite solution.

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Abstract: Recently, the main reason for patients to go to the dentist are periodontal diseases, leading to premature formation of blood clots, a decrease in quality of life due to bad breath, bleeding gums and dental hyperesthesia. Based on the study, the results of the treatment of 112 patients examined from 2019 to 2022 in the department of Orthopedic Dentistry of the Samarkand Regional Dental Clinic were analyzed. According to the results of our study, chronic diffuse periodontitis was more often observed in the group of patients aged 30-39 years – in 39 (34.8%) patients. In chronic diffuse periodontitis, a clear clinical effect was obtained when using the Prozone device with a special disposable Perio tip for 18 seconds, which is equivalent to treating periodontal pockets in combination with an ozonated solution of sodium hypochlorite. The index figures were two times lower. Cytobacterioscopic data indicate that the inflammation decreased and was eliminated within a year.

INTRODUCTION

In world practice, a number of targeted scientific studies are conducted aimed at studying morphofunctional criteria for assessing the severity of the disease. Planktonic biofilm contains microorganisms that cause periodontal diseases and supports them with their vital products. In turn, the biofilm is attached to the tooth tissues using a matrix containing bacterial microflora. Therefore, the

treatment of periodontal diseases begins with the removal of pilaccases, the removal of mineralized residues from the tooth surface and the removal of biofilms. To do this, dentists use hand tools and ultrasound machines. On the one hand, the complex of therapeutic measures for the treatment of this pathology is diverse, therapeutic, orthopedic and, if necessary, surgical methods are used; on the other hand, practical experience shows that sometimes only at the initial stage of the process, the removal of residues from teeth and normalization of oral hygiene lead to the cessation of inflammation and restoration of the periodontal structure. All this prompted us to develop a special treatment for such patients.

METHODS

Based on the study, the results of the treatment of 112 patients examined from 2019 to 2022 in the department of Orthopedic Dentistry of the Samarkand Regional Dental Clinic were analyzed. According to the results of our study, chronic diffuse periodontitis was more often observed in the group of patients aged 30-39 years – in 39 (34.8%) patients.

The examination of the periodontal tissue condition was carried out by evaluating index indicators. To assess the inflammatory process in the gums, we evaluated the papillary-marginal-alveolar index. We determined the degree of bleeding during milk absorption in accordance with the Mülleman–Saxer bleeding index. The degree of chronic diffuse periodontitis was determined by the depth of the pocket.

The patients underwent comprehensive therapeutic measures, including antiseptic treatment of false pockets for 18 seconds using a special disposable Perio tip using a general antiseptic, that is, an ozonated solution of sodium hypochlorite, in a Prozone device manufactured by the Austrian company w&H. Antiseptic treatment of false pockets using the W&H Prozone device ensured the removal of hard and soft residues in the upper and lower parts of the gums of the teeth.

RESULTS

The effectiveness of the developed method was evaluated using hygienic parameters and cytobacterioscopic examination

On the 7th day after treatment, the number of neutrophils decreased by 66.6%, which is also confirmed by the results obtained, after 2 weeks and 3 months - 4.5 times (77.8%), six months later - 3.6 times (72.2%), a year later - 1.8 times (44.4%). The number of macrophages decreased by 2 times starting from day 7, the same result was revealed at the time of the examination a year later. These indicators

can be assessed as a remission of the disease. Coccal flora was detected only on the 7th day, a year later individual cocci were found in the field of vision, or in 2 patients (1.8%) they were unevenly colored, which is a sign of insufficiently pronounced inflammation and is not statistically significant.

In the material obtained during the initial examination, pseudomycella were observed, colored in bright colors, in an amount from 10 to 13, and under the influence of the performed therapeutic procedures, they mainly appeared in the study area by day 7 and were found inactive, which in some cases indicates a decrease in inflammation lasts up to 6 months. A year later, their number reached 6 in 109 (97.3%) patients, which is considered the limit of the norm, while 3 (2.7%) patients had pseudomycelial filaments in the range from 6 to 9 in several areas of the study (Fig. 2). This indicates that remission occurs after a year in 2.7% of cases. Chronic gum inflammation was characterized by the fact that at the time of the initial examination, the nuclear–cytoplasmic ratio of the established forms of epithelial cells was determined in the ratio 1:2, 1:1. After 3 and 6 months, and after 1 year, the nuclear–cytoplasmic ratio was 1:3. These results were evaluated by us as regenerative activity of the epithelium.

Thus, in the complex treatment of chronic diffuse periodontitis, the use of the Prozone device with a special disposable tip Perio tip in the equivalent of 18 seconds, the treatment of periodontal pockets in combination with an ozonated solution of sodium hypochlorite allows to achieve long-term as well as persistent remission. 1 year after treatment, only 3 patients (2.7%) had relapses of the disease. The data of the cytobacterioscopic examination indicate that inflammation decreased and was eliminated, and regenerative processes in the gum tissues improved in the period from 6 months to 1 year, accompanied by increased epithelial proliferation.

CONCLUSIONS

In chronic diffuse periodontitis, a clear clinical effect was obtained when using the Prozone device with a special disposable Perio tip for 18 seconds, which is equivalent to applying to periodontal pockets in combination with an ozonated solution of sodium hypochlorite. The index figures were two times lower. Cytobacterioscopic data indicate that the inflammation decreased and was eliminated within a year.

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