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The influence of diode laser 940 μm on periodontal clinical parameters in patients with chronic generalized periodontitis of moderate severity

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Introduction: A detailed study of additional methods of treatment of periodontal diseases, such as laser therapy, allows ascertaining the clinical safety and efficiency of laser technologies in periodontics.

Objective: To study the influence of the diode laser 940 μm on clinical parameters of periodontal pocket depth (PPD) and the degree of papilla bleeding (BoP) while treating the patients with chronic generalized periodontitis (CGP) of moderate severity.

Material and methods: 16 patients with CGP of moderate severity participated in the study. The treatment protocol of the Ith group included: scaling and smoothing of the root surface (S/RP), sub-gingival irrigation of H₂O₂ 3% and CHX 0.2%, application of CHX gel 0.5% - 5 min. The treatment in the IIth group additionally included a three-time laser irradiation of periodontal pockets (uninitiated tip 0 300 μm , 1 W/CW), soft tissues laser application of periodontal pockets (initiated tip 0 300 μm , 2W/CW).

Results: When analyzing the results received in 6 months after the treatment, we observed a positive dynamics of indicators PI, BoP and PPD in two groups. The results of PI did not significantly differ between the two groups, but the BoP and PPD in the second group were considerably better with the statistical confidence ($p < 0,001$).

Conclusions: The use of the diode laser 940 μm at the initial phase of the conservative treatment of patients with CGP of moderate severity is an effective and clinically reasonable method, it reduces the amount of surgical involvement. Further study of distant results of treatment will allow comparing the duration of remission in these groups.