

Ключові слова: професіональна гигієна полости рта, воздушно-абразивні апарати (хендибластери), глицин, гиперестезія, індексна оцінка, сравнительний аналіз.

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The assessment of glycine efficacy in the professional oral hygiene with the use of powderjet devices (handyblasters)

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Objective. To investigate the clinical efficacy of glycine during professional oral hygiene with the use of handyblaster.

Materials and methods. The investigation involved 48 patients (26 women and 22 men), aged 23–56 years, mean age (33.6 ± 0.4) years. All patients were divided into the main group and control group. The efficacy of professional oral hygiene has been evaluated, and hygienic index Green — Vermillion (OHI-S) and indices of prevalence and intensity of dental hypersensitivity (IDHT; IIHT) have been defined.

Results and discussion. It has been established that the use of glycine during professional oral hygiene with the help of handyblasters resulted in the decrease of the hypersensitivity levels, improvement of the hygiene Green — Vermillion index (OHI-S). In the main group complications were noted in 7.41 % of patients associated with the technical specifications of mechanical nature, and in control group this rate was 57.14 % ($p < 0.05$). Moreover, it was revealed that in the control group index of the intensity of hypertension of the teeth (IIHT) and index of the distribution hypertension of the teeth (IDHT) were twice more than in the main group, thus confirming glycine efficacy.

Conclusions. The use of glycine-based abrasive powder gave the possibility of the painless removal of both sub- and supragingival plaque and dental deposits without complications in terms of dental hard tissue and soft tissues of periodontal, that has positive effects on the psychological and emotional state of the patient. Thus, the proposed approach can be recommended for the use in the dental practice.

Key words: professional oral hygiene, powderjet devices (handyblasters), glycine, hypersensitivity, index assessment, comparative analysis.