

## Hygienic Condition of the Oral Cavity of Patients in the Treatment of Removable and Non-Removable Orthodontic Techniques and to Identify The Level Of Hygienic Knowledge and Skills

Nurmatov D.N., Saidov A.A.  
Bukhara State Medical Institute

**Relevance.** Among the additional methods of diagnosing the initial forms of the carious process, modern devices that can cause fluorescence of the hard tissues of the tooth, which increases with enamel demineralization, deserve attention. It is known that fluorescence occurs if light having one wavelength hits a fluorescent material, which then emits light with a different wavelength, always shifted in the direction of the red spectrum according to the law of conservation of energy. In this regard, intact and caries-affected enamel fluoresces after absorbing light with different wavelengths.

The modern arsenal of diagnostic devices is able to effectively assess the initial stage of enamel demineralization using laser fluorescence and quantitative light-induced laser fluorescence [1.3.5.7.9].

To prevent such complications, various preparations with calcium and fluoride content have been proposed. However, they do not always give the desired effect, since 65-67% of the examined patients have poor oral hygiene, and local fluoridation is not effective enough due to the rapid loss of calcium fluoride crystals.

For the prevention and treatment of lesions of hard tissues of teeth, a method of deep fluoridation with typhenfluorides has been proposed, which for a long time emit fluoride in high concentration, contributing to reliable remineralization.

Currently, many fundamental aspects of prevention in the process of orthodontic treatment have not yet been fully resolved. There is no data on the use of the deep fluoridation method in orthodontics. The issues of assessing the resistance of tooth enamel and the effectiveness of remineralizing agents using mouthguards in the process of orthodontic treatment are insufficiently covered. In this regard, the urgent task is the further development of preventive measures in the process of orthodontic treatment.

The proposed complex of therapeutic, preventive and diagnostic measures, taking into account the risk of dental caries, contributes to improving the quality of orthodontic treatment using fixed and removable orthodontic equipment, prevents the development of complications from the hard tissues of teeth and periodontal tissues [2.4.6.8.10.11.12].

**Conclusion.** It was found that the initial foci of enamel demineralization around fixed braces, visually indistinguishable, but detected by light-induced fluorescence, occur in all patients undergoing orthodontic treatment using non-removable orthodontic technique. It is noted that focal enamel demineralization around braces occurs at an earlier time in the cervical region of the teeth of the upper and lower jaw. Carrying out professional and individual oral hygiene with the help of highly effective hygiene products, exogenous and endogenous prevention of caries with the use of "R.O.C.S. Medical Minerals" preparations, which was fixed with the help of mouthguards, made it possible to reduce the increase in dental caries in children by 90.2%.

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