



## Methods for Treating Isolated Dental Anomalies through Elainers

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**Relevance of the study.** Orthodontic treatment of isolated tooth anomalies is one of the important steps in eliminating occlusive damage and creating a stable occlusion in patients with periodont diseases. Achieving high aesthetic and less important functional results in orthodontic dental practice is associated with the introduction of modern technologies and materials for orthodontic correction in patients with periodontitis. Effective results can be achieved by using orthodontic devices in patients with isolated dental anomalies as well as using physiotherapeutic and conservative treatments in the initial stages of periodont disease. Today, pathological changes have been identified using RMA, OHI-s indices to detect changes in orthopantomogram, telerecogram and periodont tissue and oral cavity in the diagnosis of patients with isolated dental anomalies, and an effective treatment plan has been established. When examined by orthopantomogram, telerecogram examination methods in patients with isolated dental Anomalies, This allows the most accurate special calculation of all planes, angles and distances. Such an analysis allows not only to draw up a complex special treatment plan, but also to use the data obtained for the production of orthodontic devices. However, today orthopantomogram is important for a deeper study of methods for assessing the condition of bone tissue in the area of teeth and pile teeth using telerecogram.

In addition, the use of orthodontic elainers for the treatment of dental condition anomalies, taking into account the morphological and functional indicators of the facial jaw, has not been sufficiently studied in modern specialized literature. The quality of modern orthodontic treatment also allows to improve the quality of life of patients by stabilizing the physical, social, mental or emotional activity of patients in the treatment of individual dental anomalies, according to the data of the World Health Organization. At the same time, the quality of life of adult patients undergoing orthodontic treatment with the help of elainers and breakaways is not sufficiently studied, and the methods of treatment with orthodontic devices that are obtained and not obtained in the patient are not fully studied and are one of the pressing problems waiting for a solution [2.4.6.8.10.12.14.16.18].

The maximum control over the movement of teeth and roots, as cited in scientific sources, allows orthodontic treatment of complex dental – jaw abnormalities. In isolated dental anomalies, they are considered to have high patient aesthetic requirements during orthodontic treatment. In his research, the author compared the results of treatment with the help of elainers, along with traditional treatment. For example, the duration of treatment with elainers with isolated dental anomalies averaged 10 months, and treatment with breakaways averaged 18 months. It makes it possible to assess the hygienic condition of the oral cavity of patients during orthodontic treatment and improve the quality of life in patients through it.

In isolated dental anomalies in foreign and domestic scientific literature, significant differences in index values were observed in patients using elainers 1.2 and 1.8 in traditional orthodontic treatment, on average 1.15 months after oral hygiene before starting treatment [1.3.5.7.9.11.13.15.17.19].

Thus, the authors argue that, unlike elainers, the presence of non-removable orthodontic devices, improved oral hygiene and the possibility of normalizing the state of chewing in patients are created. At the same time, the authors note that patients who receive orthodontic treatment with oral hygiene should pay attention to the accumulation of fillers and blisters on their teeth. There are studies in the



existing domestic and foreign literature devoted to the study of the effect on the development of gingivitis as a result of orthodontic devices. Thus, when using orthodontic devices, the value of the RMA index (modified by Parma, 1960) increases significantly 3 months after the start of treatment, which is associated with a deterioration in hygienic condition. After 1 year, the index quadruples, and on average 20.5 values are evaluated biolan. At the initial stage of orthodontic treatment, periodont tissue inflammatory diseases are often latent, patients ignore the first signs of the disease, which leads to a late diagnosis and treatment of these diseases. In addition, when not adequately treated during treatment with the traditional method of treatment, the periodont tissue is overloaded, blood vessel compression and thrombosis appear, blood circulation and tissue nutrition are disrupted, which manifests itself as an inflammatory reaction.

Thus, the transition from unsatisfactory to a good level of oral hygiene when orthodontic treatment is carried out through elainers in individual dental anomalies. It is a method of choice in orthodontic treatment, since they are removable orthodontic devices that do not create conditions for additional plaque retention. By increasing the effectiveness of treatment through elainers in isolated dental anomalies, a reduction in the risk of inflammatory diseases in the parodont tissue is achieved. The effectiveness of the application of orthodontic devices elainers in patients with isolated dental anomalies. 1. Clinical and additional examination methods were carried out to prepare a diagnosis and treatment plan for patients with isolated dental anomalies. 2. In patients with isolated dental anomalies, a mold was obtained to print the model on a 3D printer and have their models or virtual Editions prepared and delivered. 3. Drawing up a plan to obtain a mold virtual network model from patients with isolated dental anomalies and treat the final result with visualization. The stage of acquaintance and coordination of the treatment plan with the patient was carried out. 4. Production and adaptation of an individual set of elainer for patients with isolated dental anomalies. 5. Clinical stages of the use of elainers in patients with isolated dental anomalies. The following advantages of elainers being used in patients with isolated dental anomalies were found during the application of the research orthodontic device. 1. In patients with isolated dental anomalies, elainers look aesthetically better than traditional orthodontic devices, which is considered convenient for the patient to apply. 2. In patients with isolated dental anomalies, elainers do not significantly affect the level of oral hygiene and do not alter individual hygiene. 3. It was achieved to show all the planned stages of orthodontic treatment and its results for patients with isolated dental anomalies. 4. During treatment with elainers in patients with isolated dental anomalies, the patient does not change his usual diet, which will allow him not to limit the consumption of various products. 5. It does not damage the mucous membrane of the oral cavity and parodont tissue during orthodontic treatment with elainers in patients with isolated dental anomalies. 6. Because elainers are made of bioinert medical plastic in patients with isolated tooth anomalies, they are safe and are one of the effective treatments for orthodontic treatment in patients with allergic reactions, in particular in patients who are allergic to nickel.

**Conclusion.** We found it preferable to use physiotherapeutic procedures in order to eliminate inflammatory processes in parodont tissues in patients with isolated dental anomalies.

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