



МИНИСТЕРСТВО ЗДРАВООХРАНЕНИЯ РЕСПУБЛИКИ УЗБЕКИСТАН



МИНИСТЕРСТВО ВЫСШЕГО ОБРАЗОВАНИЯ, НАУКИ И ИННОВАЦИЙ РУЗ



ТАШКЕНТСКИЙ ГОСУДАРСТВЕННЫЙ СТОМАТОЛОГИЧЕСКИЙ ИНСТИТУТ

# **VI** МЕЖДУНАРОДНЫЙ КОНГРЕСС СТОМАТОЛОГОВ

«АКТУАЛЬНЫЕ ПРОБЛЕМЫ СТОМАТОЛОГИИ  
И ЧЕЛЮСТНО-ЛИЦЕВОЙ ХИРУРГИИ»



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## HIGHT QUALITY ORTHODONTIC TREATMENT USING THE DAMON BRACKET SYSTEM

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**Introduction.** This study examines the use of the Damon System design, in which an additional ligature is not used to hold the arch as the system itself holds the arch. The Damon System is a self-adjusting braces system. The arch which is placed in a longitudinal groove adjusts the correct positioning of the teeth and the shape of the dental arch[1]. The wire arch slides easily inside the bracket groove thanks to the self-adjusting system. Therefore, the force acting on the tooth is reduced, resulting in less discomfort during treatment.

**Objective.** To analyse the use of the Damon System in orthodontic treatment.

**Material and methods.** 32 patients with different bite problems were treated in orthodontic treatment with Damon System in EMU Clinic during 2021-2023. 15 of them were men and 18 women. Tests were performed, such as: telerengenography (Fig.1), orthopantomography, computer tomography temporomandibular joint, and photometry.

**Results.** Metal models (Damon Q) and aesthetic models (Damon Clear) of the Damon System were used (Fig. 2,3).

An example is patient L., a girl of 17. Diagnosis: Class 2 skeletal. Class 2 dental-alveolar, cuspidate on the right and full cuspidate on the left. The upper centre is displaced to the right. Inclination of the occlusal surface. Neutral inclination of upper incisors. Intrusion of the lower incisors. Anterior position of the upper incisors. Crossed position 17. Done: High torque maxillary braces. Distalisation of 2 segments. Intrusion of segment 1 to the micro-screw.

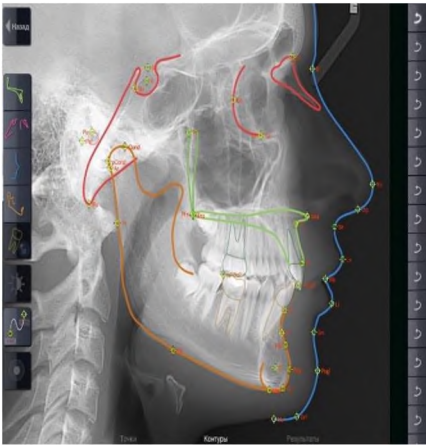


Fig. 1. Telerengenogramma of the patient before starting treatment.



Fig. 2. Models Damon System



Fig. 3. Stage of treatment patient.

**Conclusions.** The admission time is reduced. The arch is replaced much faster, as no metal ligatures are put on or taken off for each tooth to be fixed. The use of ligatures, which provoke the accumulation of soft plaque, is eliminated. Furthermore, the number of visits to the doctor during treatment is reduced. Avoids major discomfort during arch changes or initial transfers. Reduced pain sensation. Reduction in treatment time by 3 to 5 months. The lips and cheeks always exert light pressure on the teeth. The forces of the brackets and the arch on the one hand, plus the pressure of the lips and cheeks on the other provide bilateral influence on the position of the teeth, excessive forward deflection of the teeth is avoided and the patient's profile becomes harmonious. Reduction in the number of teeth removed, as the weak forces give a smooth change in the shape of the dental arch and provides space for all complete teeth.

**Literature:**

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