

Maxillary molar distalization by modified palatally anchored expander

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Abstract

Objective: The present study was conducted to achieve bodily molar distalization by a modified skeletally anchored palatal expander.

Materials and methods: Four patients (3 boys and a girl; mean age 11.3 years) were treated by a modified skeletally anchored palatal expander. All patients were dentally Class II molar relation with deep overbite and normal or sagittally directed growth pattern. Lateral cephalograms were taken and analyzed before and after molar distalization. Maxillary molar distalization was carried out by a modified HYREX palatal expander anchored to 2 anteriorly positioned palatal miniscrews (2.1 mm in diameter and 11 mm in length). The appliance was activated twice weekly to exert a force of 90 gm/activation.

Results: The appliance was able to move the maxillary first molars distally by an average of 5.23 ± 1.23 mm without tipping and Class I molar relation was obtained within a period of 4.63 ± 1.2 months. Slight extrusion of the maxillary molars was observed which was reflected on the opening rotation of the mandible, as the FH/MP angle was increased by 1.250 ± 0.230 and the increase in the Y axis by 1.930 ± 0.230 . A marked improvement of the deepbite was observed.

Conclusion: The modified palatally anchored expander was an effective treatment alternative for the management of Class II non extraction cases by maxillary molar distalization.

Speaker Publications:

1. Elsaharty, Mohamed (2018). The treatment effects of the modified c palatal plate combination in the treatment of developing class III malocclusion.
2. Elsaharty, Mohamed & Gaballah, Safaa & Atia, Abdelwareth (2015). PROBABILITY OF PERMANENT MAXILLARY CANINE IMPACTION USING SECTOR AND ANGULAR MEASUREMENTS. Egyptian dental journal. 61. 5491-5498.
3. Elsaharty, Mohamed (2015). PROBABILITY OF PERMANENT MAXILLARY CANINE IMPACTION USING SECTOR AND ANGULAR MEASUREMENTS.

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