SB-006

A RADIOGRAPHIC COMPARISON OF ROOT RESORPTION IN CLASS II MALLOCLUSION TREATMENT WITH VARIOUS METHODS

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INTRODUCTION: To determine the apical root resorption (ARR) in 3 different orthodontic treatment methods of Class II malocclusion.

MATERIALS-METHODS: ARR of upper and lower incisors of the patients treated with Forsus (FG; n = 20), headgear (CHG; n = 20), and fixed orthodontic appliances involving the extraction of upper first premolars' (EG; n = 20) was determined. A total of 480 teeth were evaluated from panoramic radiographs obtained at T1 (after active treatment), and T2 times (during retention). ARR was assessed using a scoring system ranging from 0 to 4.

RESULTS: ARR of the lower right laterals in the FG was greater than the CHG at T1 (P = 0.031). In the EG, the greater ARR was observed for upper right laterals at T1 (P = 0.037) and for the upper left centrals at T2 (P = 0.038) compared to the FG. The resorption scores of the incisors didn't change except the lower left centrals between T1 and T2 in all groups.

CONCLUSIONS: Correction of Class II malocclusions with forsus, headgear or extraction of maxillary first premolars followed by fixed appliances causes varying degrees of ARR after active treatment.

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