

Comparison of the occlusal outcomes and treatment time of Class II malocclusion with the Pendulum appliance and with two maxillary premolar extractions

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Abstract

Objectives: The purpose of this study was to compare the occlusal outcomes and the treatment time of Class II malocclusion with the Pendulum appliance and with two maxillary premolar extractions. **Methods:** For this, 48 Class II malocclusion patients were selected and divided into two groups according to the treatment protocol: group 1 consisted of dental study casts and initial cephalograms of 22 patients treated with the Pendulum appliance, with an initial mean age of 14.44 years and group 2, comprised of dental study casts and initial cephalograms of 26 patients treated with two maxillary premolar extractions and an initial mean age of 13.66 years. The occlusal outcomes were evaluated on dental casts with the PAR occlusal index and the treatment time of each group was calculated by the clinical records. The variables were compared by the t tests. **Results and conclusions:** The results demonstrated that the occlusal outcomes were similar between the groups, however, the two maxillary premolar extractions protocol provided occlusal outcomes in a shorter treatment time than the Pendulum treatment.

Keywords: Class II. Pendulum. Extractions. Distalization.

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