

عنوان مقاله:

The Effect of Anterior Bite Plate on Deep Bite Correction During Early Mixed Dentition

محل انتشار:

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خلاصه مقاله:

Background: Deep bite is one of the main common occlusal discrepancies of mixed dentition period and anterior bite plate is recommended in early mixed dentition to correct the trait and prevent the future malocclusion. The aim of this study was to assess the effect of anterior bite plate on the correction of deep bite in early mixed dentition. Methods: This retrospective semi-experimental clinical trial was conducted on 16 patients (8 males, 8 females) with deep bite and class II malocclusion in early mixed dentition. Cephalometric radiographs were obtained from patients' records before and after the application of anterior bite plate. Changes in 11 various angular, ratio and distance measures were evaluated by tracing the cephalograms. Collected data were then analyzed using paired t-test. Results: Statistical differences were evaluated before and after the use of anterior bite plate appliance. Change in overbite, overjet, ANB angulation, anterior facial height, posterior facial height and Jarabak index were calculated with results indicative of significant changes ($P < 0.017$, $P < 0.041$, $P < 0.001$, $P < 0.0001$, $P < 0.0001$, $P < 0.012$). However, no significant difference in the degree of SNA, SNB, Go.Gn.SN, Y-axis and incisor to the mandibular plane angle (IMPA) was noted following the application of the appliance ($P > 0.914$, $P > 0.219$, $P > 0.753$, $P > 0.276$, $P > 0.062$). Conclusions: Treatment with the anterior bite plate was shown to be effective in correction of the deep bite in cases with class II malocclusion with little need for complex fixed appliance therapy.

کلمات کلیدی:

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