

عنوان مقاله:

Comparative Evaluation of a Combination of Facemask-Removable Appliance and Removable Appliance Alone for Antero-Posterior Expansion in A - 10-Year-Old CI III Children with Maxillary Deficiency

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خلاصه مقاله:

Objectives The aim of this study was to evaluate and compare the effects of concomitant use of a facemask and a removable appliance and a removable appliance alone for antero-posterior expansion in CI III children with maxillary deficiency. Methods In this retrospective analytical study, Y1 CI III children aged A - 10 years were selected using the census sampling technique. The subjects were divided into two groups based on the treatment modality. In group A, the subjects received an antero-posterior-expanding removable appliance and in group B, they received the same removable appliance concomitant with a facemask. Pre- and post-therapeutic cephalograms were analyzed and changes and angles on both images were determined. Mann-Whitney U and Wilcoxon tests were used to compare the results of the two treatment modalities and before-after results respectively ($\alpha = \circ.\circ \Delta$). Results Wits appraisal, overjet, ANB, U1-SN, U1-PP and A-B difference increased in both groups after treatment (P < o.o.). In the removable appliance group, overbite, SNB and inter-incisal angle decreased (P < o.o.). In the facemask group, IMPA decreased significantly (P < •.•Δ). Comparison of the two treatment modalities showed that changes in SNA, ANB, overbite, IMPA, U1-SN, U1-PP and inter-incisal angle were significant between the two groups (P < o.o.). Conclusions Use of a removable appliance alone or in combination with a facemask resulted in the forward movement of point A and protrusion of upper incisors. The removable appliance increased the anterior facial height and decreased overbite. A .combination of facemask-removable appliance did not result in the backward and downward rotation of the mandible

كلمات كليدى:

Facemask, Cl III, Removable Appliance, Maxillary Deficiency, Y, plate

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