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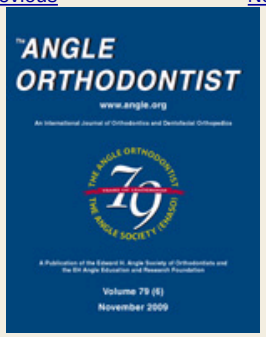

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Original Articles

Stability in Dental Changes in RME and SARME: A 2-Year Follow-up

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Abstract

Objective: To compare the effects of rapid maxillary expansion (RME) and surgically assisted rapid maxillary expansion (SARME) on dentoalveolar structures following orthodontic treatment, as well as stability at 2-year follow-up.

Materials and Methods: Two groups of subjects were used in the study. Group 1 consisted of 14 subjects (mean age, 12.7 ± 1.4 years) who were treated with RME, and Group 2 consisted of 13 subjects (mean age, 18.5 ± 2.3 years) who were treated with SARME. In both groups, all cases had a maxillary width deficiency with bilateral crossbites. Maxillary dental casts were available at three different intervals: pretreatment (T1), after orthodontic treatment (T2), and at follow-up recall (T3). Intermolar and interpremolar width, palatal height, and maxillary arch depth and length were assessed from maxillary dental casts.

Results: Treatment by RME and SARME produced significant increases in intermolar and interpremolar width and maxillary arch length after expansion (T2) ($P < .05$). The amount of relapse was not significantly different 2 years after treatment ($P > .05$).

Conclusions: Although age ranges of the patient groups are different, the dentoalveolar responses of RME and SARME were similar after orthodontic treatment. (*Angle Orthod.* 2009:79;)

Keywords: Rapid maxillary expansion, Surgically assisted rapid maxillary expansion, Dentoalveolar changes, Dental cast

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