

عنوان مقاله:

Comparison of Ricketts, Pancherz and Centrographic Superimposition Methods in Post-Treatment Assessment of the Effects of Twin Block-Appliance Therapy

محل انتشار:

دوفصلنامه ارتودنسی ایران, دوره 13, شماره 2 (سال: 1397)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Objectives Aim of this study was to do a comparative post-treatment assessment, using three superimposition methods (Ricketts, Pancherz and Centrographic), in patients with Angle's Class II Division 1 malocclusion and functional retrusion of mandible following twin block appliance therapy. Methods In this retrospective cross sectional study, pre and post-treatment lateral cephalometric radiographs of "" cases were analyzed and compared using Ricketts, Pancherz and Centrographic superimposition methods. Changes were evaluated quantitatively for all three methods using a reference grid. The anteroposterior position of upper and lower centroids with respect to the centroid plane was evaluated. Results Paired samples t-tests and intraclass correlation coefficient revealed excellent reliability of Ricketts, Pancherz and Centrographic superimposition techniques for all parameters. An advancement of F.IF + Y.YF and F.IA + Y.YF in Pancherz, F.Wo + Y.IF and F.WA + Y.IA in Ricketts and F.WF + Y.I9 and F.Oo + Y.I9 in Centrographic superimposition methods was shown by point B and pogonion respectively. The observed advancement of Point B and restriction of mesial movement of upper first molar (UF) was statistically significant for Centrographic method as compared to Pancherz. Advancement of lower centroid was seen in all cases with YY.Y% in level with centroid plane and YF.Y% within 1mm of it. Conclusions All three superimposition methods (Ricketts, Pancherz and Centrographic) proved equally reliable in assessing treatment changes following twin block therapy. Forward movement of lower centroid was observed in 100% of the cases indicating true mandibular advancement .following twin block appliance therapy in Skeletal Class II Division 1 malocclusions

كلمات كليدى:

Twin Block Appliance, Centrographic Analysis, Superimposition

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