

25th World Congress on **Dentistry and Oral Health**

March 14-15, 2019 | London, UK

Comparison of the outcomes of different class II treatments protocols using ABO-OGS, PAR Index and IOTN

Abdul Rahman Khan
Aga Khan University Hospital, Pakistan

Introduction: About 1/3rd of orthodontic patients have class II malocclusion and different treatment options are available for the treatment. It is the goal of orthodontics to give an ideal smile to the patients and therefore this study was conducted to compare the outcomes of different treatment protocols.

Materials & Methods: A cross-sectional study was conducted using pretreatment and post-treatment photographs, cast and post-treatment radiographs of 135 subjects being divided into 3 treatment protocols: Upper premolar extraction (UPE), Clark's twin block (CTB) and class II elastics (C2E) treatment modality. The cases were analyzed using ABO-OGS, IOTN and PAR index. Wilcoxon-Signed Rank test was used to compare the pretreatment and post-treatment malocclusion scores. Mann-Whitney U test and Kruskal-Wallis test were used to compare the scores among treatment modalities. $p \leq 0.05$ was kept as a level of significance.

Results: The ABO index indicated that more failure with C2E followed by CTB and UPE (40, 33.3 and 20%) respectively. PAR and IOTN showed statistically significant improvement.

Conclusion: All treatment modalities are effective however; C2E has more failure cases as compared to other modalities.

Recent Publications

1. Cansunar H A and Uysal T (2014) Comparison of orthodontic treatment outcomes in nonextraction, 2 maxillary premolar extractions, and 4 premolar extraction protocols with the American Board of Orthodontics objective grading system. *Am J Orthod Dentofacial Orthop.* 145(5):595-602.
2. Janson G, Barros S E, de Freitas M R, Henriques J F and Pinzan A (2007) Class II treatment efficiency in maxillary premolar extraction and nonextraction protocols. *Am J Orthod and Dentofacial Orthop.* 132(4):490-8.
3. Bäckstrom H and Mohlin B (1998) Quality assessment in orthodontics using the IOTN and PAR indices. *Tandläkartidningen.* 90:49-57.
4. Farhadian N, Miresmaeili A F and Soltani M K (2005) Comparison of extraction and non-extraction orthodontic treatment using the objective grading system. *J Dent Tehran Uni Med Sci.* 2:91-5.
5. Allen Dyken R, Sadowsky P L and Hurst D (2001) Orthodontic outcomes assessment using the peer assessment rating index. *Angle Orthod.* 71(3):164-9.

Biography

Abdul Rahman Khan has his expertise in orthodontics and he is a Clinician and a Researcher. He wants to improve his skills and wants to bring new ideas of treatment and improvement in the treatment provided.

abdulrahman.khan@aku.edu