

J Cont Med A Dent. January-April 2019;7(1):10-14.

Periodontally- Accelerated Osteogenic Orthodontics

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Abstract

Nowadays an increasing number of adults are seeking orthodontic treatment in order to improve self-confidence. However, orthodontic treatment takes a long period of time, accelerating tooth movements are one of the major concerns of nowadays orthodontics. Periodontally-accelerated osteogenic orthodontics combines selective decortication and alveolar augmentation. This procedure is based on the regional acceleratory phenomenon, which allows rapid tooth movements based on the bone healing pattern. Periodontally-accelerated osteogenic orthodontics reduce the treatment 3 to 4 times when compared to conventional orthodontics. This technique results in increased alveolar width, post-treatment stability, and decreased the amount of apical root resorption. Alveolar augmentation allows to maintain the bone support to the root surfaces, and provide more intact periodontium. The purpose of this article is to review the periodontally-accelerated osteogenic orthodontic procedure.