

Clinical effects of intra-oral photobiomodulation on the rate of tooth movement and pain perception during the alignment phase of orthodontic treatment

Nour Alokla

Dubai Health Care City, UAE

Orthodontic treatment is a long procedure which requires about 18-24 months of treatment. This long duration of treatment can cause a variety of side effects like alveolar bone resorption, root resorption, caries and decrease in the compliance of the patient.

Therefore finding a method to shorten the treatment period remains one of the big challenges lying ahead of orthodontics. Nowadays, the versatility of low-level laser therapy has been extensively applied in clinical practice. In particular, in the field of orthodontics; it has been used for the alleviation of orthodontic pain and acceleration of orthodontic tooth movement. The purpose of this study was to investigate whether the use of photobiomodulation therapy (using OrthoPulse machine from Biolux) combined with conventional fixed orthodontic appliance will result in reducing overall treatment time by accelerating maxillary and mandibular anterior alignment rates and reducing patient pain perception scores during the treatment.

Biography:

Nour Alokla completed Diploma in dental laboratory technology as Dental technician from Damascus University in 2006, after that She studied Dentistry at Al Kalamoon University in Syria and graduated in 2011. She obtained my Master degree in orthodontic and dentofacial orthopedic from European University college. She am interested in acceleration of the tooth movement during orthodontic treatment researches. Currently working as full time orthodontist in Dubai Health care city.