

Efficacy of low-level laser irradiation in accelerating tooth movement in dento-alveolar posterior bilateral cross bite correction in adults: A Randomized clinical trial.

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Keywords:

Self-ligating, Brackets, crossbite, Laser, accelerating, tooth movement.

ABSTRACT

The aim of this study was to evaluate the effect of low-level laser irradiation in accelerating tooth movement along with self-ligating brackets in dento-alveolar posterior bilateral cross bite correction in adults. Thirty one patients (mean age: 18-25 years) with bilateral posterior crossbite of dento-alveolar origin, Split mouth design was performed and followed, Each upper arch was divided into two sides (experimental and control). Separation rubber was applied for a week then attach the orthodontic brackets and bands and 0.013-in archwire was applied. The laser was applied to the experimental side with a wavelength of 830 nm in a continuous mode (energy density, 1 J/cm²) on 3 points buccally and palatally around each root of upper first and second premolar and upper first molar on the experimental side; the other side was designated as the control with nontherapeutic light applied. Laser irradiation was applied at baseline and then on the 3rd, 7th, 14th, 21st day after that repeated every month until the crossbite corrected. A CBCT image of the upper jaw was taken after the two ends came out of the dental alveolar crossbite to assess the changes in the thickness of vestibular alveolar bone and degree of torque on upper first molar and first, second premolar before and after treatment on both sides. The thickness of vestibular alveolar bone on upper first and second premolar and first molar before the treatment was significantly different after treatment on both the experimental and control sides ($p < 0.05$), the same was for the degree of torque on upper first and second premolar and first molar on both sides. The thickness of vestibular alveolar bone and degree of torque on upper first and second premolar and first molar was nonsignificant ($p > 0.05$) between the two sides before and after treatment. Within the limitation of this study we can conclude that the laser did not have an additional role in increasing treatment efficacy and the self-ligating brackets were effective in correcting posterior crossbite by widening the upper arch.

Low Level Irradiation

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American Quarterly of Roentgenology, 1930 *The Effect of Low Intensity Laser Irradiation and Low Level, Low LET Ionising Radiation on DNA Within Mammalian Cells* Ian D. Logan, 1997 **Some Aspects of Internal Irradiation** Thomas Francis Dougherty, 1962 The American Journal of Roentgenology and Radium Therapy, 1930 **INIS Atomindex**, 1995 **Energy Research Abstracts**, 1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Investigating the Efficacy of Low Level Laser Irradiation in Wound Healing** Basilios E. Sideris, 2010 **Proceedings of International Symposium on Radiation Education (ISRE 98)**, 1999 The Lancet, 1922 *The American Journal of the Medical Sciences*, 1928 Current Cancer Research on Radiation Carcinogenesis and Related Radiobiology, 1981 *Transactions of the American Nuclear Society*, 1995 Toxicology Research Projects Directory, 1980 An indexed directory of current research project abstracts in toxicology and related fields

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