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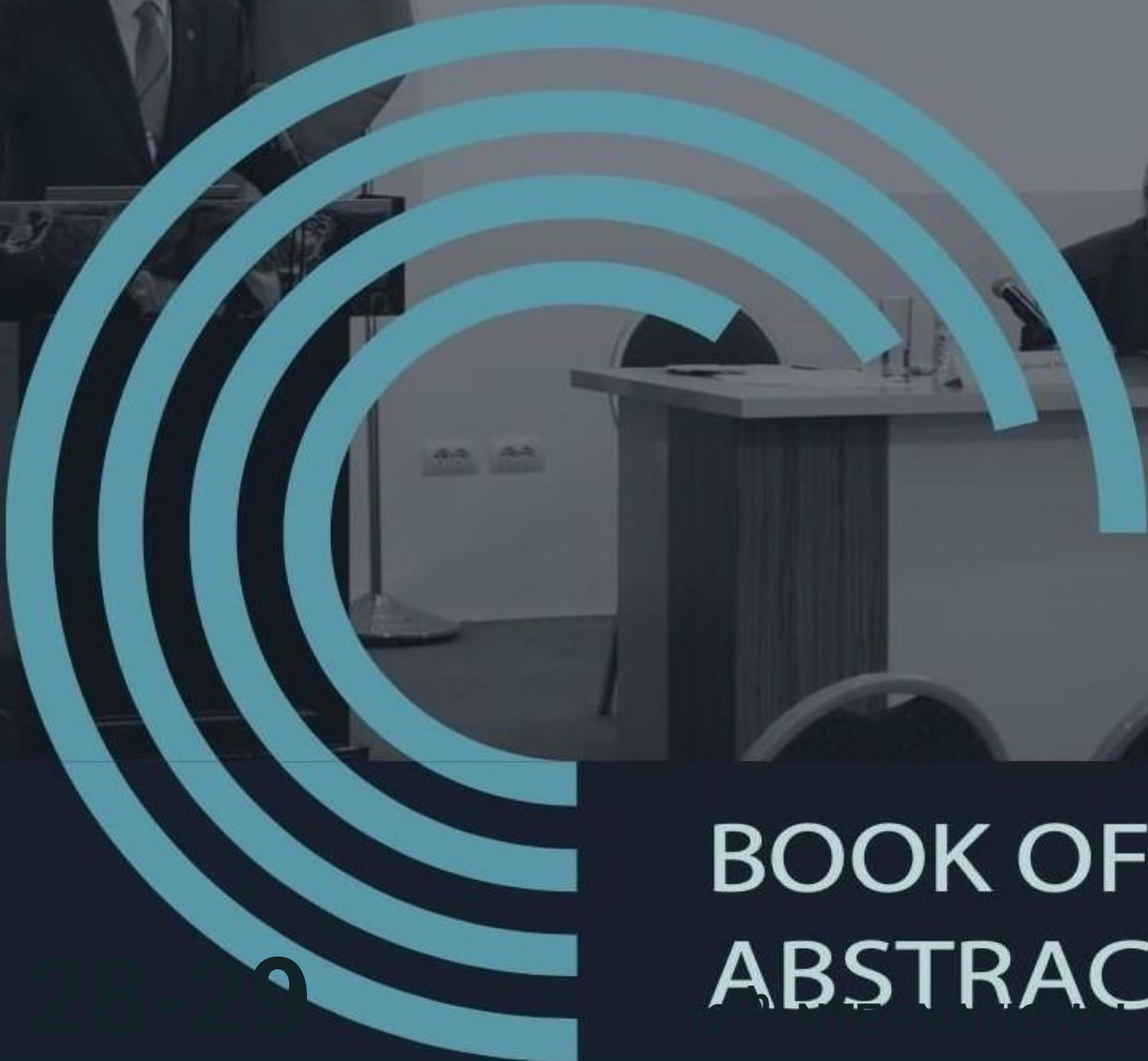


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Edited by
Edmond Hajrizi

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BENEFITS FROM DENTAL LASERS IN PERIODONTAL TREATMENT

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Abstract. To overcome the numerous limitations of curettes and ultrasound devices during periodontal therapy, many researchers have investigated the effects of lasers as an adjunct or alternative to conventional mechanical periodontal therapy. Lasers are one of the most promising modalities for non-surgical periodontal treatment, as they can achieve excellent tissue ablation with strong antimicrobial effects and root surface detoxification. Starting from the abovementioned, we set the main goal of this research - to present the benefits and advantages from dental lasers in periodontal treatment.

This article presents an adequate literature review for the contemporary aspects of laser assisted periodontal therapy. All of the used literature data were published in peer-reviewed publications and journals. Most of the articles were in English language, published in the last ten years from 2013 until 2023.

Various types of lasers can be used in periodontology, including Carbon Dioxide laser (CO₂ laser), Neodymium: Yttrium Aluminum Garnet laser (Nd: YAG laser), Erbium: Yttrium Aluminum Garnet laser (Er: YAG) and Erbium Chromium: Yttrium Scandium Gallium Garnet laser (Er, Cr: YSGG). Most often, lasers containing the YAG group are more suitable in periodontology, due to their high absorption by water and hydroxyapatite, which is the highest compared to other wavelengths.

Evidence shows that the laser provides better clinical and microbiological results compared to the use of hand instruments and sonic and ultrasound instruments and devices.

Keywords: Dental lasers, periodontology, periodontal treatment, Er:YAG laser in periodontology.