

The use of soft tissue laser in everyday modern dental practise

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Abstract

Introduction: Modern technology advances presented through high-tech appliances such as the laser, allows us to ideally perform a number of procedures, simply, quickly and with great success in the treatment itself. Dental diode soft tissue lasers allow classical surgery to be replaced by a more up-to-date solution.

Case Description: In this survey we present three cases that are treated with a soft laser.

Case 1 –Gingival Hiperplasion: We made an evaluation of a 35-year-old patient with localized hyperplasia of the gingival tissue in the upper left quadrant of the premolar region. Conservative treatment did not show any successful results, therefore it was used laser removal of the hyperplastic tissue with a soft-touch laser with a wavelength of 810 nm, power (cw) of 5.0W using 400 µm fiber type enabled to obtain the desired results.

Case 2 –Dental crown elevation: In our second case we present a female patient to whom was performed elevation of crowns at the front teeth, followed by the determination and marking of the targeted tissue that is a subject to gingivectomy due to esthetic reasons. The procedure was performed with the same soft-touch laser.

Case 3 –Generalized chronic gingivitis

In the last case, a patient with generalized chronic gingivitis was evaluated, where conservative treatment combined with 0.3W power laser biostimulation in 15 treatments, for 35 days and exposure time of 20 seconds until the affected side reached the desired result.

Conclusion: Diode lasers are modern devices capable of precisely correcting gingival tissue defects, while eliminating the bleeding in meantime and reducing the lasting of the patient's treatment. They also offer an anti-inflammatory effect, improve the local circulation and stimulate the overall healing process of the tissue.

Keywords

diode laser, hyperplasia, gingivitis, gingivectomy, crown extension.