Surgical Lengthening of the Clinical Tooth Crown by Using Semiconductor Diode Laser: A Case Series

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Abstract: Surgical crown lengthening procedures are performed to aid in the retention of prostheses by allowing proper tooth preparation, impression procedures and placement of restorative margins. A healthy periodontium is a key to a successful prosthesis. It is necessary to prepare periodontal tissues properly before restorative treatment to ensure good form, function, and esthetics of the masticatory apparatus, as well as patient comfort. There are different surgical techniques used for crown lengthening e.g., gingivectomy, apically displaced flap, crown lengthening with ostectomy, and lasers. The success of such procedures depends on the biological width.

The present case series describes surgical crown lengthening procedures by using semiconductor diode laser, as the diode laser technique is easier, is well accepted by patients, and provided predictable postoperative results.

Keywords: diode laser, crown lengthening, biological width, gingivectomy, gingivoplasty.

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