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**ABSTRACT**

**CROWN LENGTHENING PROCEDURES:**

Diagnosis, Classifications and Clinical Applications:

From Conventional to Digital Approach

The Crown Lengthening Surgical techniques are multiple, are dependent on the Initial Situation, the Diagnosis and the Objective to achieve.

These procedures have in general an Esthetic, a Biologic and Bio-mechanical objective and could be a combination of them in Complex Cases.

Gingival Smile can result from different etiological abnormalities, and is often a Combination of several ones.

Since the Gingival Smile is of multifactorial origin, it cannot be solved until Esthetic and Etiological Diagnosis have been established.

Crown Lengthening Procedure, is a Surgical treatment modality to achieve the apically repositioning of the Biological Width, to increase the height of the teeth, create the normal teeth proportion, harmonize the Gingival contours, treat the Gingival Smile, reestablish a healthy tooth structure on Broken teeth.

Establishing a Correct Diagnosis and an Adequate Classification, would definitely help the clinician to choose the most appropriate Surgical Procedure to prevent any recurrence of the Soft Tissue over the teeth and achieve an optimal esthetic Result.

The utilization of CBCT, Digital Dental Smile and CAD CAM Digital Workflow, have change dramatically establishing a more precise diagnosis and using of a new Type of Surgical Guide to perform the surgery in a more precise and minimal approach.