

**CASE REPORT: Upper lateral incisor tooth exposure in young male patient with sapphire tip.**



*IMAGE 1 PRE-OP . Upper right lateral incisor is retained by soft tissue in young 8 years old male patient, causing discomfort and pain.*

A young 8 years old male patient is referred to general dental practitioner for moderate swelling and pain

Intraoral examination revealed mucous retention of upper right permanent maxillary lateral incisor. A moderate swelling was present. Palpation performed over oral mucosa caused pain, moreover a four days inappetence was referred by patient's parents to clinician.

Without performing local anesthesia by infiltration, with application of a topical lidocaine cream, soft tissue was incised by using a sapphire chisel mounted on a 915 nm diode laser.

Diode laser was used with a conical shape sapphire tip. Tip was initiated on a bluish paper before use. Setting was 2.0 W in continuous wave.



*Image 2 Conical Shape Sapphire Tip*

During incision a gentle air flush was directed over the target on oral mucosa, to allow soft tissue thermal adaptation. A delicate and minimal operculization was performed within 2 minutes.

A soft cold diet for 24 hours was prescribed to patient.

Clorhexidine digluconate gel 0.2 % and Paracetamol in case of need.

After intervention patient referred pain diminishing and swelling disappeared within 24 hours.



*Image 3. POST-OP view. Operculectomy is performed with 915 nm diode laser and sapphire tip. Minimal tissue carbonization can be observed. Haemostasis is adequate. No sutures are used*

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