

Dr. Kallis has been practicing dentistry for over 25 years and has had an avid interest in laser dentistry for almost a decade. In 2006 he gained his MSc. Degree in Laser Dentistry from the AALZ Institute at the University of Aachen. Dr. Kallis is one of the pioneers of laser dentistry in Greece and is co-founder and Vice President of HELSOLA. He is also co-founder of the GSLD, a European division member of the WFLD.



## Buccal Fibroma Removal with the Er:YAG Laser

In this case study we present a case of a patient who presented at our clinic with a buccal fibroma on the left interior cheek. The patient complained of frequent irritation and associated discomfort through repeatedly biting the lesion.

Usually a dental practice would refer this patient to an oral surgeon, since conventional treatment requires the use of a scalpel or electrosurgery device with a consequent need for stitching and more specialized post-operative care. In our dental practice we are able to remove fibromas using our Er:YAG laser after confirming the lesion is benign in nature. Using the treatment parameter set below we are able to plane down the fibroma to the level of the adjacent tissue, without any bleeding and in a matter of seconds. Anesthesia is generally not needed. Stitching is not required and because the lesion is immediately closed to the environment due to the coagulation effect of the VLP pulses, the risk of complications is minimized. The fibroma is sent to the histology lab for further analysis.

Laser source:	Er:YAG (2940 nm)
VSP Mode:	VLP
Pulse energy:	200 mJ
Frequency:	4 Hz
Handpiece:	R14
Fibertip:	Conical; 0.6 – 12 mm
Water/Air Spray Setting:	None

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The procedure was comfortable for the patient and we needed approximately 1 minute to remove the fibroma. If we would have used a scalpel for the procedure we would have taken longer, needed to suture the wound and the patient would have suffered more after surgery due to oedema and other related complications or side effects.

The patient was very satisfied because anesthesia and thus an injection was not needed. He did not require any further post-operative care and was able to continue with normal daily activities without any noteworthy problems. Through the formation of new fibrin, the wound healed within days, with virtual complete recovery within 2 weeks.



Before



During



After treatment



5 days after



2 weeks after

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