

Dr. Dimitris Strakas DDS has been actively involved in the development and practice of laser dentistry since 2002. He is currently serving as the president of the Greek Society for Laser Dentistry (GSLD) and a member of the World Federation for Laser Dentistry (WFLD). Dr. Strakas works with a Fidelis Plus, all-tissue Fotona laser system.



Aphthae Removal

Recommended Parameters:

Laser source:	Nd:YAG (1064 nm)
VSP Mode:	MSP
Power:	2 W
Frequency:	20 Hz
Handpiece:	300 µm fiber (R21 handpiece)
Water/Air Spray Setting:	None
Anesthesia:	None needed

(Courtesy of Dr. D. Strakas)

Treatment Procedure:

The 300 µm fiber-optic beam delivery tip was held perpendicular to the aphthous lesion. Using small circular movements and without making contact with the target tissue the target surface was disinfected using the parameters listed above. The treatment is completed when the entire surface of the aphthous lesion is coagulated and crusty, and has a whitish appearance (See Figure 1B). The patient felt immediate pain relief. This procedure did not require any anesthesia, there was no bleeding and the patient reported minimal discomfort.

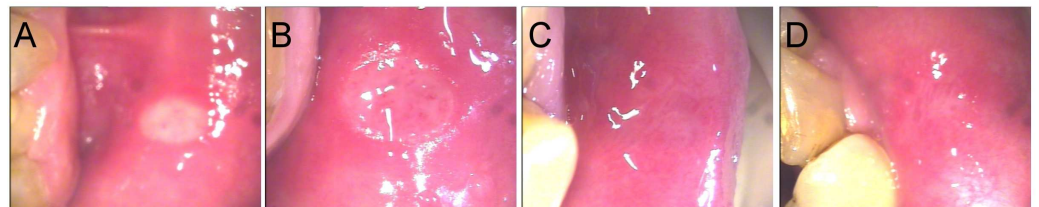


Figure 1. A) before treatment, B) immediately after treatment, C) 2 days after, D) 4 days after treatment

Discussion:

Excellent results were achieved. No follow up treatment was necessary. In two days healing was nearly complete, at four days most visible signs of surgery were gone. The patient's pain was relieved.