

Dr. Peev has his own private practice in Sofia, Bulgaria, where he performs dermatological, aesthetic and gynecological treatments with the SP Dynamis. His scientific interests are in the treatment of different dermatological conditions with laser, especially remodeling scars and treating vascular lesions. He is a member of Bulgarian Dermatological Society, the European Academy of Dermatology and Venereology, the European Society for lasers and Energy-based Devices and the International Dermatology Society.



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Treatment of Linear Hypertrophic Scar with a Combination of Fractional Er:YAG and Guna MD-Tissue® Mesotherapy

Dr. Ivan Peev

Parameters:

Laser source:	Er:YAG	Er:YAG
Pulse duration:	MSP	LP
Fluence:	5-8 J/cm ²	72 J/cm ²
Frequency:	7 Hz	1 Hz
Handpiece:	R11	FS01
Spotsize:	2 – 3 mm	-
Mode:	Basic	TURBO 6

Treatment procedure:

This case presents a 27-year-old male who had a traumatic hypertrophic scar after self-manipulation of an acne lesion at the right nasolabial fold, followed by bacterial infection and formation of an abscess. The scar was linear and raised with a fistula.

A procedure with an SP Dynamis laser (Fotona, Slovenia) was performed under infiltrative anesthesia with lidocaine. The parameters used are shown in the table above. The treatment consisted of 3 steps. In the first step, 3-4 passes with Er:YAG using an R11 handpiece were done in order to flatten the scar. In the second step, 3 passes with an FS01 fractional handpiece were performed for remodeling the scar tissue with an endpoint of pinpoint bleeding. Immediately after the procedure, collagen and vitamin complex (Guna MD-Tissue) were applied and the treatment area was covered with a bandage.

The healing time following the procedure was about 5 days, with the treated area bandaged during the first 24 h. After bandage removal, a crust was observed that fell off after 4 days. Three weeks later, a treatment with GUNA MD-Tissue® mesotherapy using a mesogun device was initiated to promote scar healing. Overall 1 session with laser and 10 procedures with mesotherapy were done. The after picture was taken 4 months after the final therapy.



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Before scar-revision treatment



4 months after the final therapy