

## New Indications of SP Dynamis: Treatment of Rare Cases

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### SUMMARY

This lecture presents an overview of applications for the SP Dynamis laser (Fotona, Slovenia) used in our hospital. The SP Dynamis multi-application platform, with a combination of Er:YAG and Nd:YAG wavelengths, is used to treat surgical, dermatological as well as gynecological problems. Most commonly aesthetic problems such as skin aging, pigmentary changes (lentigos) or skin texture (rosacea, papular dermatosis nigra) (Fig. 1) are treated.



Fig.1: Patient with papular dermatosis nigra before and 30 days after Er:YAG treatment with 2 mm spot size, fluence 5-10 J/cm<sup>2</sup>, frequency 5 Hz, two passes.

The laser is also used for the treatment of rare dermatological problems such as injuries after radiotherapy and post-chemical sclerosis, and also for vascular problems like face telangiectasia, lip venous lakes, leg reticular varicose veins and telangiectasia.

Laser treatment also presents an excellent solution in reconstructive surgery (post-traumatic scars), for treating hair removal in skin graft or post-operative surgery, for epilation in preoperative areas after reconstructive procedures, and for atrophic/hypertrophic scars.

Cases presented in Fig. 2 and Fig. 3 show situations where skin grafts having hair were displaced on non-hairy areas (like the nose in Fig. 2 or soft palate in Fig. 3). Laser epilation is an ideal solution to permanently remove hair from these areas.



Fig. 2: 56-year-old female with extensive surgery for basal cell carcinoma on the nose. Displaced flap reconstruction presents follicles in the coverage area as the donor tissue comes from the scalp. Before and after Nd:YAG treatment with 9 mm spot size, fluence 40-50 J/cm<sup>2</sup>, pulse duration 20 ms, 3 sessions with 8 weeks interval.



Fig. 3: 34-year-old male treated for a malignant tumor (rhabdomyosarcoma), with reconstruction of the intracranial area with a skin graft (hairy thigh skin) on the soft palate area. Before and 30 days after Nd:YAG laser epilation treatment with 9 mm spot size, fluence 40 J/cm<sup>2</sup>, pulse duration 15-20 ms, 2 sessions with 30-45 days interval.

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