

Treatment of Pigmented Lesions with the Fotona StarWalker Laser

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SUMMARY

Cutaneous and mucosal Pigmented lesions require a correct diagnosis before deciding on the best treatment. We recommend dermatoscopy (melanocytic patterns) and a biopsy if necessary. Laser should only be employed for benign pigmented lesions.

Melanosomes (melanin particles) are the target chromophores. They are located in the melanocytes, keratinocytes and melanophages. Melanocytic hyperplasia represents the increase of melanocytes in the basal layer of the epidermis. Melanocytic neoplasia (nevus) shows the presence of melanocytic cells in the epidermal nest, within the dermis or in other tissues.

The absorption spectrum of melanin is broad, between 200 and 1200 nm. Short wavelengths (532 nm) are more selective, but they are superficial such that they are useful for superficial lesions. Long wavelengths (1064 nm) penetrate more deeply but are less selective. Therefore, they require more fluence and larger spots.

We present our results with the Fotona StarWalker Q-switched laser in the treatment of pigmented lesions. We emphasize the new protocols we have designed for some indications in this field and the possibilities of the StarWalker. We also describe treatments with the new fractional Q-Sw handpiece.

Versatility of the SP Dynamis in Aesthetic and Clinical Practice

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SUMMARY

This lecture will present an overview of applications for the SP Dynamis laser (Fotona, Slovenia) used in our private dermatological clinic for a period of 2 years (2016 – 2018). The SP Dynamis multi-application platform, with a combination of Er:YAG and Nd:YAG wavelengths, is used to treat aesthetic, dermatological, as well as gynecological problems. Most common aesthetic problems such as skin aging, pigmentary changes (lentiginos) or skin texture (couperosis, dermatosis papulosa nigra, enlarged pores) can be treated.

The laser is frequently used for the treatment of various dermatological problems such as senile keratosis, dermal nevi, xanthelasma, keloids, scars, venous lakes, PWS, lymphangiomas, leg reticular varicose veins and telangiectasia, plantar and genital warts, rosacea, onychomycosis, etc.

The laser also presents an excellent solution for vaginal relaxation syndrome in postmenopausal women and snoring and sleep apnea disorders.

The lecture consists of three parts. The first part is an overview of the Fotona SP Dynamis and its advantages in growing the clinical practice. The second part presents a variety of dermatological diseases and conditions successfully treated with Er:YAG and Nd:YAG. The third part presents our experience with 4D face lifting, vaginal relaxation syndrome, snoring and sleep apnea.

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