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REJUVENATION WITH A NEW 675 nm LASER DEVICE

Wrinkles and discromias are the main skin changes associated with aging due to the degradation of collagen and abnormal accumulation of elastin in the dermis. This process causes the loss of elasticity with a consequent increase in wrinkles and accumulation of melanin.

Rejuvenation has become an important topic and the development of non-surgical procedures with energy based devices motivates patients to choose these treatments more easily. Laser technologies have evolved from micro-ablative lasers to non-ablative lasers, as more and more patients require results associated with minimal pain and no side effects. Both micro ablative laser and fractional non-ablative systems in the near infrared target the dermal water for stimulate the activity of fibroblasts to produce new collagen. Although of proven efficacy, the ablative systems involve the entire epidermal/dermal sector, introducing a more complex post-operative management. On the other hand non-ablative laser systems with repeated sessions heat the dermis, without creating epidermal damage, with lower side effects and reduced downtime.

A new laser system equipped with a 675 nm source has been introduced in the market (RedTouch, Deka Mela Srl) to optimize and improve the quality of these treatments. The device emits in the visible spectrum and a fractional scanning system allows to generate micro zones of selective dermal damage

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(average depth of 300/500 microns), protecting the epidermal layer thanks to an integrated skin cooling system. The high affinity for melanin and directly with collagen fibers, combined with minimal interaction with the vascular component, makes this system promising in the treatment of benign pigmented lesions, photo-rejuvenation and remodeling of atrophic scars, reducing the risk of side effects and simplifying post-treatment management. The innovation of this system is related to the capability of bypassing the interaction with water which subsequently transfers onto the collagen fibers the laser energy, this reduces significantly the amount of delivered energy.

The RedTouch is therefore a promising non-ablative device for the reduction of wrinkles and the improvement of the skin structure that acts directly on the collagen component and reducing the involvement of the other chromophores. The strength of this treatment is the absence of downtime and severe side effects, so that patients can immediately return to their daily activities without compromising their quality of life.

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