

Plasma exeresis: a multi-tasking technique from clinic to cosmetic

Introduction & objectives: plasma exeresis is a new technique to treat several skin conditions: through the ionization of the gases between the point and the tissue, it generates the plasma. The plasma hits the tissue to treat and gives the sublimation. The handpiece can be used in a single spot (for wrinkles and skin laxity) or continuous mode (to remove benign skin lesions). We will present different clinical cases involving wrinkle treatment, hyperpigmentations (seborrheic keratosis, solar lentigo), benign dermal nevi, acne and dermathocalasis.

Material & methods: we used one plasma exeresis medical device. It is a cordless micro-surgical hand operated device. Informed consent form was obtained. Topical anesthesia was applied one hour before on the selected area. After the treatment, the patient applied twice a day, disinfectant solution and covered the defect with foundation. Clinical images were taken before, immediately after and one month after the soft surgery.

Furthermore some patients, treated for dermathocalasis and acne, had confocal microscopy performed on the selected area before and after the plasma exeresis.

Results: the evaluation of clinical images is significant for very good cosmetic result.

Confocal microscopy showed a peculiar reorganization of collagens bundles and neo-collagen formation for skin laxity and the resolution of acneic lesions.

Conclusions: plasma exeresis is a good therapeutic options to many different dermatological conditions, without the need of local anesthesia; the post-treatment discomfort for the patient is very short. No major side effects were observed.

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