

AESTHETIC AND COSMETIC DERMATOLOGY (LASERS SEPARATE CATEGORY)

A NOVEL RADIO FREQUENCY MICRO-PLASMA TREATMENT AS A THERAPEUTIC ALTERNATIVE FOR DERMATOCHALASIS

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Introduction: Dermatochalasis (DC) or "lax eyelid condition" is characterized by bilateral skin laxity of the upper eyelids affecting the periorbital region, in severe cases an overhang of the eyelid margin leads to lash ptosis, ocular discomfort, and corneal irritation.

Surgical revision is the gold standard of treatment, a procedure which exposes patients to pain, bruising, and a prolonged recovery.

A novel Radio Frequency (RF) device is a noninvasive minimally ablative fractional unipolar RF technology designed to induce controlled epidermal micro-ablation. This technology is, has shorter operative and recovery times together with natural appearance clinical outcome (no scars) compared to traditional surgical techniques.

Objective: To determine the safety and single treatment feasibility of RF micro-plasma technology for treatment of Dermatochalasis.

Methods: Twenty-five (25) patients with moderate to severe dermatochalasis were treated with RF micro-plasma technology. Bilateral upper eyelids were exposed to micro-plasma sparks from the eyelid crease up to the brow, at an energy range of 5-7W. Treatment pattern included multiple spots with a subsequent pass of slight feathering strokes. Patients received a single treatment and were evaluated at a follow-up visit after 6-8 weeks. Clinical evaluation included clinical appearance improvement from baseline by three independent evaluators according to GAIS scale (1-exceptional improvement, 2- very improved, 3-improved, 4- unaltered, 5- worsened), patient satisfaction (5 =extremely satisfied - 1=unsatisfied) and mean recovery time.

Results: Patients demonstrated visible clinical improvement of eyelid laxity after a single treatment (mean GAIS 2.531) and reported high satisfaction rates of 3.98. Post treatment pain was resolved within first 24hrs. without concomitant analgesics. Mean recovery time was 4.5 days. No adverse events were reported.

Conclusion: The RF micro-plasma technique is a new safe and effective treatment for patients with dermatochalasis. This non-invasive, well tolerated treatment may prove a











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therapeutic alternative for the gold standard blepharoplasty surgery.



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