



AESTHETIC AND COSMETIC DERMATOLOGY (LASERS SEPARATE CATEGORY)

## THERMAL REGULATED ENDO-PLASMA FOR LOWER FACE & PERIORBITAL NON-SURGICAL LIFTING & CONTOURING

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**Background:** Non ablative Radiofrequency has been for many years the only method for producing skin tightening. but the results weren't always significant when the area treated has also fat excess .A new device combining an internal Thermosensing Monopolar Radiofrequency & an external Ablative Radiofrequency with plasma effect was tested to get immediate skin tightening & lipolysis.

**Objective:** The study aimed to evaluate the clinical improvement & safety of the combination of Internal real time thermosensing Radiofrequency & External Plasma Ablative Radiofrequency to produce skin contraction & lipolysis in the lower peri-orbital area, lower face & upper neck.

**Patients & Methods:** 10 patients were treated for lower eyelids rejuvenation, lower face lifting and neck skin laxity improvement, for moderate double chin.

The temperature used on the thermal cannula was between 40 & 55 degrees.

The temperature reached on the superficial skin was 42 degrees.

**Results:** The results showed favorable improvement in the skin laxity & fat deposition. Both investigators' evaluations & patients' evaluation showed significant improvement between 12 & 24 weeks.

No side effects such infection or burn were observed.

The use of the plasma external radiofrequency leaved an epidermal crust (epidermal brown spot with a diameter of 1 millimetre each) which fell spontaneously after 5 days.

**Conclusion:** The combination of an internal real-time thermosensing monopolar Radiofrequency with external ablative plasma radiofrequency is a very safe & innovative procedure which might become one of the popular treatment option for face lifting & contouring because of the combined effect of new collagen deposition, skin tightening & soft lipolysis due to the radiofrequency heat effects

