AESTHETIC AND COSMETIC DERMATOLOGY (LASERS SEPARATE CATEGORY)

FACIAL TIGHTENING USING MULTISOURCE PHASE CONTROL RADIOFREQUENCY (RF) IN SKIN TYPE 4 & 5.

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Background: Patients’ demand for non-invasive skin tightening RF treatments has grown dramatically in recent years. Wrinkles and lax skin are caused mainly by the loss of collagen function. Studies have shown that heating the dermis to 52-55°C triggers fibroblasts proliferation and synthesis of new collagen fibers (Collagen remodeling), while epidermis temperature stays at a temperature of 40-42°C.

In this study the author used multisource phase control RF technology which utilizes 6 RF generators simultaneously, allowing multiple heating fields for deep penetration.

Objective: This study investigates safety and efficacy of multisource phase control focused RF energy treatment with 4 concentric electrodes apparatus for facial tightening.

Study Design & Methods: 20 subjects completed the study, were treated with a multisource RF handpiece. Treatment areas were Cheeks, chin and neck. Treatment included 8 sessions, where each session took 23 to 26 minutes of RF energy delivery. Power range used was 35 to 45 Watts. Surface temperature was indicated by an infrared thermometer and maintained at least 40°C.

All patients were photographed before treatment, and at follow-up visits.

Results: All the subjects recruited for study finished the treatment protocol. Patients reported the treatment was comfortable and painless. Mild edema and erythema were observed up to 2 hours post treatment. No adverse events were reported during and after the treatments. B&A photos indicate an improvement in skin laxity and texture, and were evaluated by a physician.

Conclusions: In this study the author uses multisource phase control RF technology. The unique ability of technology to independently control the polarity of each electrode allows deep heat with decreased epidermal heating. Data shows high efficacy for improvement in skin laxity and texture without pain or adverse effects.