

LONG TERM ANTI WRINKLE REDUCTION USING A NOVEL MULTISOURCE RF PHASE-CONTROLLED RADIOFREQUENCY TREATMENT SYSTEM

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Background: It is well documented that dermal heating has an immediate effect on collagen structure resulting in skin tightening and longer term effect of neocollagenesis resulting in improved skin texture and decrease in wrinkles. First generation radiofrequency device were proven to be effective for anti-wrinkle effect and skin tightening but their use was limited by pain or unpredictable results. We tested a new technology implementing Phase Controlled Multisource radiofrequency (3DEEP Technology, EndyMed PRO™, EndyMed Ltd. Caesarea, Israel).

Study: The study included 32 patients specifically treated for face wrinkles, that were followed for 3 months after last treatment (5 months follow up). Patients received 6 treatments and were scheduled for follow-up visits after one month and three months following the last treatment. Pre and post-treatment photos were introduced to two impartial dermatologists for blinded evaluation according to Fitzpatrick Wrinkle Scale.

Results: Out of the 32 patients treated for face wrinkles, two patients could not complete the protocol because of personal reasons not related to the study itself. Some patients experienced mild local erythema and edema that resolved within 10 to 30 minutes. None experienced pain, burns, skin breakdown, or scarring. Score differences was found to be statistically significant while comparing baseline score to the scores obtained at following 6 treatments, 1 month follow-up and 3 month follow-up (First reviewer: 2.07(_1.53), 2.45(_1.62), 3.43(_1.59) and the second reviewer 1.67(_1.06), 1.93(_1.16) and 3.23(_1.22) respectively. ($p < 0.0001$).

Conclusion: The results of this study clearly indicate that the EndyMed PRO™ system offers a non invasive, very effective, safe and virtually painless treatment solution for long term wrinkle reduction.

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