REVIEW

Multisource radiofrequency for fractional skin resurfacing – signifi cant reduction of wrinkles

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Abstract

Background : Skin roughness, color change, wrinkles and skin laxity are the main characteristics of aging skin. Dermatologists and plastic surgeons look for a treatment that will provide both epidermal resurfacing for the improvement of skin roughness and deep volumetric heating that will trigger collagen remodeling in the dermis to reduce wrinkles and skin laxity. These goals should be achieved with minimal pain and downtime. *Methods* : The study included 10 subjects (Fitzpatrick ' s skin type 2 – 3) with Fitzpatrick wrinkle and elastosis scale of 5 – 8 (average 7.3). Treatment was done with the Fractional skin resurfacing handpiece of the EndyMed PRO multisource radiofrequency system (EndyMed Ltd, Cesarea, Israel). Treatment was repeated each month up to a total of three treatment sessions. Patients photographs were graded according to accepted scales by a board certifi ed dermatologists. Patients ' pain and satisfaction were scored using dedicated questionnaires. Doctors ' satisfaction was also evaluated. *Results* : Post treatment skin erythema was noted in all treated patients, lasting up to 10 hours. Fifty six percent of patients reported no pain after treatment, and the rest (44%) reported minimal pain. All patients showed signifi cant reduction in the Fitzpatrick wrinkle score. Average Fitzpatrick wrinkle score was 7.3 at baseline, 4.9 at 1 month after the fi rst treatment, 4.2 at 1 month after the second treatment, and 4.1 at 1 month after the third treatment. The score was similar at 3 months after the third treatment with a score of 4.1. When asked at the end of three treatment sessions, all patients answered they will recommend the treatment to their friends (66% " defi nitely yes " and 33% " yes "). When asked the same question 3 months after the end of treatment, all patients (100%) answered " defi nitely yes " .

Key Words: *lasers and light sources , surgery*