

BURN SCAR TREATMENT WITH MICRO FAT GRAFTING WITH ADJUNCTION OF FRAXEL

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Treatment of burn scar still remains as an unsolved problem, and thousands of affected patients suffer lifetime with their appearance. To help this group of patients I started dual treatment with fraxel restore and micro fat grafting.

MATERIAL AND METHOD

In the last four years 107 patients (86 female, 21 male; 13 adolescent, 94 adult; 64 head & neck, 43 body regions) with burn scar or keloid have been treated. To soften the hypertrophic scar and or keloid, a fraxel (restore) treatment for 5 to 8 sessions, with 15 days interval between each session, was performed. For the adult patients an energy dose of 70mj, at level 7, with 8 pass, and for the children 50mj, level 5, with 8 pass were performed. After 3 to 5 session of laser, a micro fat grafting, using sharp needle, is done into scar tissue and is repeated every 3 months for 3 to 5 times.

RESULTS

Laser treatment reduced the scar intensity and attenuated the skin irregularities and hyperpigmentation. On each patient marked improvement on skin texture and softness was noticed after three sessions of micro fat grafting. However the degree of improvement was different for each patient related to severity of scar and type of tissue

identity. All patients were very satisfied with the improvement obtained. Demonstrative cases will be presented.

CONCLUSION

Fraxel treatment softens the scar and allows us to easily penetrate the needle into the scar tissue, facilitating the micro fat injection. It is assumed that the stem cell in fat tissue is repairing the damaged skin. The combined treatment with fraxel and micro fat grafting is an effective technique which helps the burned patients with hypertrophic scar and or keloid to improve their appearance. The degree of satisfaction by patient and physician is striking.