

LASERS

EFFICACY OF NON-INSULATED MICRONEEDLE PULSED RF FOR TREATMENTS OF FACIAL RHYTIDES AND SKIN REJUVENATION

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BACKGROUND: There are always limitations with current treatment for facial rhytides. Previous studies have shown that fractional RF can reverse solar elastosis by inducing ne elastogenesis and neocollagenesis, however there has not much published clinical report discussing the efficacy and rejuvenation effect of non-insulated microneedle pulsed-RF (NIMNRF) for Asian patients.

OBJECTIVE: The primary objective was to investigate the clinical efficacy of NIMNRF (Sylfirm) for the treatment of superficial facial rhytides. While secondary objective is to investigate the effect of NIMNRF in strengthening the anchoring complex and firming of the skin, as well as improving pigmentary disorders.

METHODS: Thirty-six patients (skin type III-V) with varying degrees of periorbital, forehead, glabella and neck wrinkles as well as nasolabial folds were enrolled in this study. The patients (30 – 70 years old) were treated 3 times at 4-week intervals with the NIMNRF. The changes in facial rhytides were evaluated by investigator and 4 independent physicians with digital images of the subjects' faces using Clique Ageing Grading System. Besides, the patients rates their satisfaction with the overall treatment outcome on a numerical scale.

RESULTS: All patients completed the NIMNRF treatments and were satisfied with the treatment. According to clinical and photographic assessments, most patients showed significant improvement in facial rhytides. This suggests that NIMNRF is efficacious in ameliorating the facial rhytides.

CONCLUSION: The NIMNRF is safe and effective treatment for facial rhytides, skin rejuvenation and pigmentary disorder in Asian patients.