

## Nano Fat Injection for Scar Treatment and Skin Rejuvenation

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**Abstract :** Scars resulting from surgery, injury, or burns have a physical and psychological impact on the affected patient. Although a number of treatments are available, nano fat grafting is an effective treatment for scars. Nano fat is a liquid suspension rich in stem cells obtained by mechanical emulsification. Nano fat grafting was performed in 10 cases to correct rhytides, surgical scars, and post-burn scars between January 2022 and April 2022. Fat was aspirated from the lower abdomen or trochanteric region. After emulsification and filtration protocol, the resulting nano fat liquid was injected intradermally and subdermally. All patients filled out a questionnaire at three months post-treatment, which consisted of questions regarding the grade of improvement of skin and recommendation of the procedure. The clinical results were apparent between 2 and 3 weeks after the treatment. All patients confirmed an improvement in skin texture and quality. The most significant improvement was seen in pigmentation and pliability. No complications were reported. Nano fat seems to be a safe and effective treatment in scar treatment and skin rejuvenation.

**Keywords :** fat grafting, fat transfer, micro fat, nano fat

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