



DERMATOLOGICAL SURGERY

## **SUPERFICIAL ENHANCED FLUID FAT INJECTION (SEFFI AND MICROSEFFI) AS VOLUME DEFECT CORRECTION METHOD IN PATIENT WITH FACIAL LIPOATROPHY**

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**Background:** Facial lipoatrophy refers to the loss of adipose tissue and is manifested by flattening or indentation of convex contours of the face. Currently, there are no specific treatment for restore volume defect in facial lipoatrophy. Corrective interventions in facial lipoatrophy can be done with autologous fat transfer. Superficial Enhanced Fluid Fat Injection (SEFFI) and MicroSEFFI are grafting techniques for adipose tissue designed to deliver viable adipocytes and SVF/ASCs for the restoration of face volumes

**Observation:** 38 y.o woman, came to our outpatient clinic with chief complaints of uneven or sunken facial surface contours felt since 20 years ago. There was no history of chronic infection, and use of epilepsy drugs previously. In this case we used SEFFI and microSEFFI techniques. Clinical results were evaluated at weeks 4, 12 and 24 after the procedure, and monitoring complications during procedure and post-procedure.

**Key message:** In SEFFI and MicroSEFFI, adipose tissue is dissociated in small clusters by harvesting with a cannula with small side-port holes. The tissue preparation is then enriched Platelet-Rich Plasma (PRP) to increases the rate of engraftment of adipose tissue, increase fat graft survival by providing nutrient support from its plasma components and increasing angiogenesis from multiple angiogenic growth factors, and also enhancing the proliferation and adipogenic differentiation of ASCs. This technique gave satisfactory results after 24 months in repairing the volume defect of facial lipoatrophy.

