

iSLICE: The Introduction of Micro-Autologous Fat Transplantation (MAFT) and Its Applications in Facial Recontouring

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ABSTRACT: More than 12 decades have passed since the first clinical application of fat grafting. Because fat grafting is associated with an unpredictable survival/retention rate and potential complications, such as fibrosis, abscess/cyst formation, nodulation irregularity, and neurovascular injury, autologous fat grafting has become a popular procedure due to the ease of harvesting, an abundance of graft material (autologous adipose tissue), and lack of transplantation rejection. Lin introduced the concept of micro-autologous fat transplantation (MAFT) in 2007. The dogma of MAFT focused on the theme that each transplanted fat parcel should be less

than $<1/100$ mL (0.01 mL) to avoid central necrosis, which is the main cause of most complications after fat grafting. The innovative instrument, the MAFT-GUN, has been developed and certified. This innovative instrument has a patented mechanism that facilitates and ensures that surgeons deliver fat parcels flexibly and consistently at volumes of $1/60$, $1/90$, $1/120$, $1/150$, $1/180$, or $1/240$ mL. This presentation discusses the history of fat grafting and parcel size, focusing on the prevention of central necrosis. The key points of the MAFT technique and its clinical results for facial and body contouring are illustrated to demonstrate its feasibility and indispensability in aesthetic, reconstructive, and regenerative surgeries.

Biography:-

Tsai-Ming Lin, MD, PhD. is a board-certified plastic surgeon in Taiwan who specializes in plastic, reconstructive and cosmetic surgeries. He is best known for his theory of Micro-Autologous Fat Transplantation (MAFT) which is fully executed by his invention, MAFT-GUN, a micro-scale injector. He is now a member of numerous organizations including Taiwan Surgical Association, Taiwan Society of Plastic Surgery, Taiwan Society of Aesthetic

Plastic Surgery, Association of Hyperbaric and Undersea Medicine of Republic of China, International Society of Aesthetic Plastic Surgery (ISAPS), American Society of Plastic Surgeons (ASPS), and the International Society of Plastic Regenerative Surgeons (ISPRES).

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