

Efficacy of Fractional Laser Combined with Botulinum Toxin on Pore Improvement

Yandong Ma

Chongqing Meilai Plastic Surgery Hospital

To evaluate the effectiveness of fractional laser therapy combined with botulinum toxin in improving the appearance of facial pores. Methods: 120 participants with pronounced facial pores were recruited and divided into three groups: fractional laser therapy (control group 1, n=40), botulinum toxin injections (control group 2, n=40), and a combination of both treatments (experimental group, n=40). Treatments were administered at baseline, with follow-up evaluations at one, three, and six months. Objective measures included digital skin imaging and dermal ultrasound assessments of pore size and skin texture. Subjective evaluations were performed using the Facial Pore Outcome Scale (FPOS) and participant satisfaction surveys, focusing on perceived improvements in skin quality and texture Results: After six months, the experimental group demonstrated the most significant improvement, with a 63% reduction in pore size, markedly higher than the 34% and 29% reductions observed in control groups 1 and 2, respectively ($P < 0.05$). Dermal ultrasound corroborated these findings, showing enhanced collagen density and a notable decrease in sebum production primarily in the experimental group. The subjective FPOS scores revealed a 46% improvement in the experimental group, significantly outperforming the 20% and 18% improvements in the control groups ($P < 0.01$). Satisfaction levels mirrored these trends, with 85% of the experimental group participants reporting high satisfaction, compared to lower satisfaction rates in the control groups (50% and 55%)

Biography

Yandong Ma is a distinguished plastic surgeon based at Chongqing Meilai Plastic Surgery Hospital. With years of experience, he specializes in cosmetic surgery and aesthetic medicine. His expertise has earned him recognition in the field of advanced surgical procedures. Yandong Ma is dedicated to delivering exceptional care and transformative results to his patients.

15123080464@163.com

Abstract received : Aug 08, 2024 | Abstract accepted : Aug 12, 2024 | Abstract published : 30-08-2024