

Histological Analysis of Human Skin Indicates Quantitative Increase of Collagen and Elastin Fibers after Synchronized Radiofrequency with Facial Muscle Stimulation

Karan Lal, DO, MS¹ and David Goldberg, M.D., J.D.¹

¹ Skin Laser and Surgery Specialists, a Division of Schweiger Dermatology, Hackensack, NJ, USA

Presented at American Society for Dermatologic Surgery (ASDS) Annual Meeting 2022, Denver, CO.

+27%

Increase in Collagen

+129%

Increase in Elastin

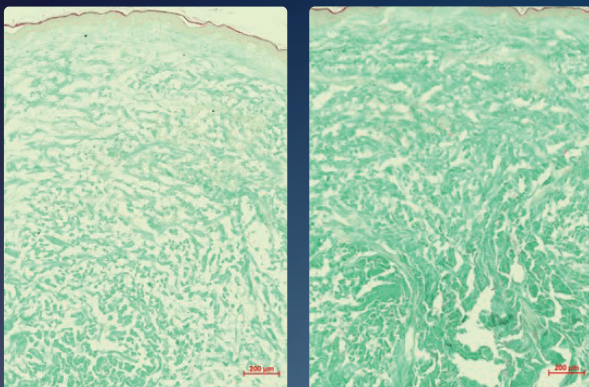
Methodology

- 7 patients allocated to Active (N=6) and Control (N=1) groups
- Active group: Four 20-minute RF+HIFES full face treatments (Control group - no treatments)
- Punch biopsies of skin tissue collected at baseline, 1-month and 3-month follow-ups
- Evaluation of digital photographs, satisfaction, comfort and safety

Preliminary Results

- Increased levels of elastin and collagen at 1-month and 3-month follow-ups
- Visible improved facial appearance
- Patients report high rates of satisfaction with the treatment
- No adverse events

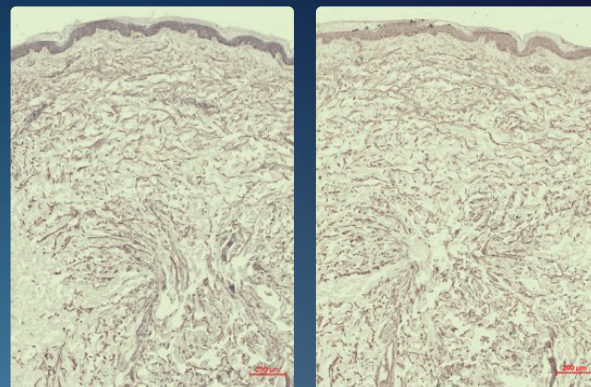
Collagen - Trichrome Stain



Baseline

3 months

Elastin - Orcein Stain



Baseline

3 months