Diffractive Lens Array with Picosecond Laser for Facial Acne Scarring: Follow up and Histology.

Roy G. Geronemus, MD, Viktoryia Kazlouskaya, MD PhD, Yoon Soo Bae MD, Hamad Alabdulrazzaq MBBCh, Leonard Bernstein, MD, Robert Anolik, MD, Patricia A. Heller, MD, and Jeremy A. Brauer, MD

Study Design:

- 15 women and 5 men.
- Average age 44.6 years (27-62 years).
- Fitzpatrick Skin Types I-V
- Treated with the PicoSure 755nm laser with Focus lens array.
- Up to 6 treatments at .71 J/cm^2, 6 mm spot size and 750ps at 4-6 week intervals.
- Post treatment follow-up visits occurred at 1, 3 and 6 months.
- Biopsies were performed on a subset of subjects.

Results:

- 26-74% overall clearance as rated by Blinded assessment at the 1 and 3 months follow up visits.
- Scar volume 3D analysis yielded an average of 24.3% improvement maintained at 1 and 3 months post treatment.
- Histology of all follow-up specimens revealed elongation and increased density of elastic fibers, with an increase in dermal collagen and mucin.

Conclusion:

Treatment of facial acne scars with the PicoSure 755nm laser with focus lens array demonstrated maintained improvement in appearance and texture at 3 months after last treatment, with objective findings similar to those published for a series of fractional ablative laser treatments.

Pre-Treatment

3 Months Post 6 Treatments

Pre-Treatment

6 Months Post 6 Treatments

www.cynosure.com

921-0495-000 Rev.1 07/14

CYNOSURE®