

CASE STUDY

NanoSoft Microneedling: Evaluating Skin Changes Following Treatment using the DermaLab Ultrasound Probe

Objective ultrasound evaluation of SLEB thickness and collagen density after skin-booster treatment.

CASE STUDY



SOLUTION & METHOD

A novel NanoSoft microneedle was used to deliver a hyaluronic acid skin booster. Participants underwent three treatment sessions at three-week intervals. At each treatment, 3 mL FILLMED BCTF135HA was administered to the face and neck with injection points spaced 1–1.5 cm apart.

Ultrasound measurements were performed at baseline (D0), and at 11 and 17 weeks after the final treatment session (D75 and D120).



RESULTS AND CONCLUSIONS

The DermaLab Ultrasound probe demonstrated a reduction in SLEB thickness and an increase in collagen density, evidenced by progressively greater areas of high-echogenicity (bright) coloration over time.

Administration of the skin booster using the NanoSoft microneedle represents a promising approach for anti-aging treatments.



Case information

Study title: Evaluation of the Performance and Safety of a New Micro-Needle Technology in Comparison With the Classic Needle on the Antiaging Effects of a Biorevitalizing Solution: A Randomized Split Face/Neck Study

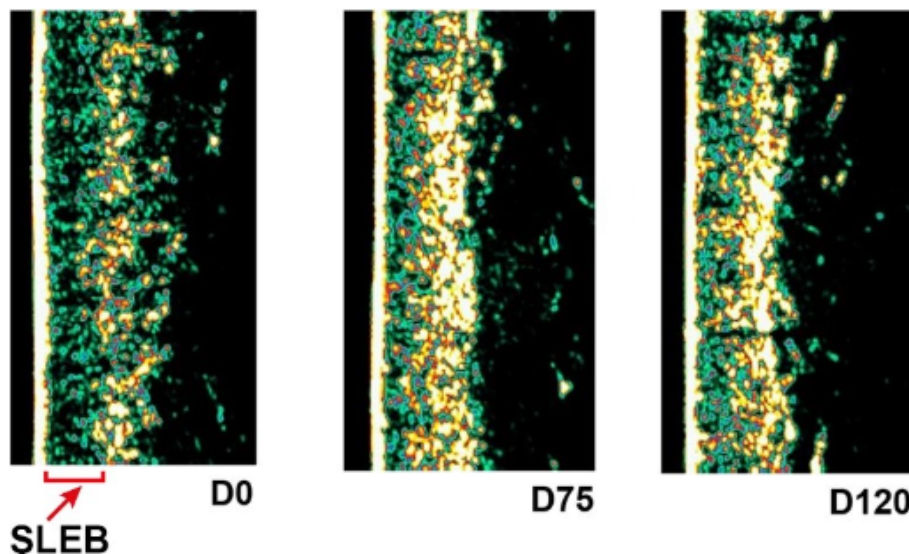
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Authors: Boca, A. et al.

Aim: To determine the performance of a novel microneedle device (NanoSoft) for delivery of a hyaluronic acid skin booster.



ULTRASOUND PROGRESSION



The increasing white/yellow coloration reflects a progressive increase in collagen deposition within the dermis. **Reference:** Figure lent from Boca et al. "Evaluation of the Performance and Safety of a New Micro-Needle Technology in Comparison With the Classic Needle on the Antiaging Effects of a Biorevitalizing Solution: A Randomized Split Face/Neck study" Journal of Cosmetic Dermatology, Vol. 23(12) 2024, Figure 10.

MEASUREMENT AREAS



Please note: Measurements were performed using the DermaLab Combo; alternatively, collagen density measurements may be obtained and visualized using the DermaLab Aesthetic.

