THE STIMULATION OF COLLAGEN & ELASTIN PRODUCTION VIA RF+TUS

MONOPOLAR RADIOFREQUENCY AND TARGETED ULTRASOUND INDUCES REMODELLING OF FIBRILLAR COLLAGEN AND ELASTIN FIBERS: HISTOLOGICAL PORCINE MODEL STUDY

David E. Kent, M.D.[1]

1. Skin Care Physicians of Georgia, Macon, GA, USA

Presented at the American Society for Laser Medicine and Surgery (ASLMS). San Diego, California, 27 April 2022

Highlights

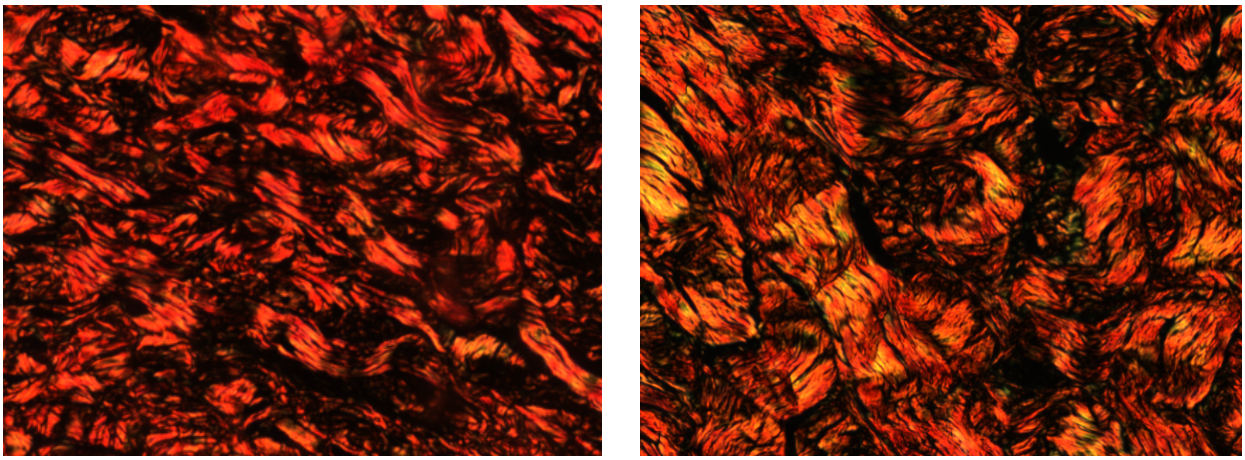
- 5 swines were used in the study
  - One side of the abdomen was treated with **RF+TUS technology**, while the other side served as a control
  - Four treatments were administered, one week apart
- Porcine samples were stained with **Picrosirius red (for collagen) and Orcein (for elastin)**, and analyzed under a polarized microscope

47%

More collagen

50%

More elastin



Overall collagen content increase was significantly higher at 3-month follow-up (right) compared to baseline (left)