Cortex

CASE STUDY

Skin elasticity and thickness

To demonstrate and evaluate the use of fish skin transplants as treatment of burn wounds.

Case information

Study Title: The Use of Fish Skin Grafts in Children as a New Treatment of Deep Dermal Burns – Case Series with Follow-Up after 2 Years and Measurement of Elasticity as an Objective Scar Evaluation
Published in: Journal of Clinical Medicine (2024)
Authors: R. Staubach; H. Glosse; S. Loff
Aim: To demonstrate and evaluate the use and clinical procedure of fish skin transplants in third-degree wound burns. The DermaLab Combo elasticity probe and ultrasound probe were used to evaluate elasticity and thickness of the healed skin.

Solution and method

The study included 20 children with third-degree burn wounds. Fish skin grafts were surgically applied to the wounds and wound dressing was subsequently changed every 2-3 days as long as needed.
Both skin elasticity and thickness was measured one and two years after the transplant using the DermaLab Combo probes, and results were compared to healthy skin measurements.

Results and conclusions

By using the DermaLab Combo, the study found almost identical elasticity of the healed skin compared to healthy skin. The study further concludes that application of fish skin grafts represents an innovative and sustainable treatment option in wound care.

BENEFITS of the DermaLab Combo

Objective, reliable data:

The DermaLab Combo probes offer immediate and accurate assessments of skin parameters, delivering objective and reliable data essential for this study.

Ideal for longitudinal studies:

The device is both user-friendly and non-invasive, making it practical for long-term follow-up measurements and monitoring treatment effects

Versatility:

The DermaLab Combo provides a dual approach and combines skin hydration and thickness measurements, making it a highly versatile and advanced device. This establishes the DermaLab Combo as an invaluable tool for both dermatological research and cosmetic efficacy studies.

The DermaLab Combo

Is highly customizable and provides advanced measurements. Choose between 11 probes and combine up to 9 skin parameters in one device.

To learn more about our solutions, visit cortex.dk.

Cortex
Niels Jernes Vej 6B
9220 Aalborg
Denmark
+45 9857 4100
cortex@cortex.dk
www.cortex.dk

Z55105.01