

Skin hydration, TEWL, elasticity and ultrasound imaging

Evaluating the clinical effects of a new topical medication in patients with mild plaque psoriasis



Case information

Study Title: D-chiro-inositol as a treatment in plaque psoriasis:

A randomized placebo-controlled clinical trial

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Aim: To evaluate the effect of a new psoriasis medication containing natural sugars by analysing changes in skin hydration, trans-epidermal water loss (TEWL), elasticity and ultrasound imaging after treatment.

Solution and method

The study group included 46 participants, aged between 18 and 60 years with mild plaque psoriasis. The control group included 10 healthy participants without medical history of psoriasis. The study group applied three different samples to three different psoriatic plaques twice a day for 6 weeks to evaluate the effect. Sample A contained no medication, Sample B contained 1% active agent, and Sample C contained 0.25% active agent. The control group applied the samples to healthy skin.

Measurements of skin hydration, TEWL, elasticity along with ultrasound imaging were performed using the DermaLab Combo probes before, during and after the treatment course.

Results and conclusions

By use of the DermaLab Combo probes the study concluded that treatment with sample B results in a significant improvement in skin hydration and elasticity. The study further concluded that the new medication may be used as an adjuvant to the local treatment of psoriasis.

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.

Non-invasive measurements:

The device features sturdy and non-invasive probes which allows for repeated measurements without harming or altering the skin barrier. This ensures high comfort and efficient workflows.

Versatility:

The DermaLab Combo combines skin hydration, trans-epidermal water loss (TEWL), skin color and elasticity measurements along with ultrasound imaging, 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.



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