

DermaScan Ultrasound

Utilizing the DermaScan to investigate the effect of a hyaluronic-acid based filler on skin collagen levels

Case information

Study title: A prospective multicenter clinical trial evaluating the efficacy and safety of a hyaluronic acid-based filler with Tri-Hyal technology in the treatment of lips and the perioral area

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Authors: Ehlinger-David A; Gorj M.; Braccini F.; Loreto F et al.

Aim: To evaluate the effect of a hyaluronic acid (HA)-based filler

Please note: This study is an independent scientific publication. The described outcomes and interpretations are not part of the intended use of the DermaScan.

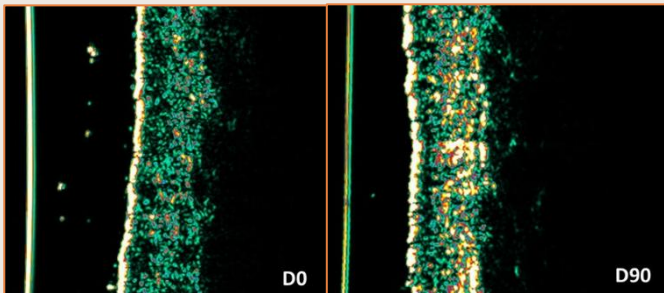
Solution and method

A total of 100 participants received the HA filler in the nasolabial folds, marionette lines and/or the lips.

The DermaScan was used to measure dermal density both at baseline, during the treatment period, and at a follow-up visit. Measurements were obtained from the nasolabial folds and used to evaluate whether the filler induces collagen rejuvenation.

Results and conclusions

DermaScan measurements demonstrated a significant increase in dermal density at all follow-up visits compared to baseline. These findings suggest that the HA filler is able to induce collagen rejuvenation.



DermaScan ultrasound imaging of nasolabial fold at baseline (D0) and after 3 months (D90). An increase in high intensity echo after 3 months is associated with changes in ultrasound signal intensity in the skin.

Picture adapted from Ehlinger-David et al., 2023.



BENEFITS of the DermaScan

Advanced skin analysis at up to 23 mm penetration depth:

The DermaScan measures skin thickness and density with an in-depth penetration of up to 23 mm, enabling clear visualization of both epidermis and dermis. This capability makes it an essential tool for skin assessment and analysis.

Non-invasive measurements:

The device provides non-invasive measurements and visualization of skin layers, allowing for repeated measurements without harming or altering the skin barrier. This ensures high comfort and efficient workflows.

Please note: Cortex devices provide objective measurement data for research and cosmetic studies. They are not intended for diagnosis or treatment of medical conditions.

The DermaScan

Provides outstanding image quality based on ultra-high frequency ultrasound.

To learn more about our solutions, visit cortex.dk



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