



WOUND HEALING

EFFECTS OF A CREAM BASED ON RHEALBA OAT PLANTLETS EXTRACT, L-ALA-L-GLU DIPEPTIDE AND HYALURONIC ACID ON EXCESSIVE SCARRING

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Introduction: Wound healing is a complex physiological process that involves various cells, hormones and inter-related factors. During this phenomenon, aberrant scarring can occur, leading to hypertrophic or keloid scars.

By causing pruritus and pain, these scars can dramatically affect a patient's quality of life. To prevent it, massage is recommended and is advised as soon as epithelialisation has occurred. This technic is thought to break collagen fibres, which will help flatten the scar.

Objective: The objective of this study was to determine the efficacy of a massage cream based on Rhealba Oat plantlets extract, L-ALA-L-GLU dipeptide and Hyaluronic Acid on excessive scars.

Material and Methods: An efficacy study was conducted to evaluate the anti-redness effect of the tested product and illustrate its visual expected effect. We used the product on subjects presenting two immature, symmetric, linear and red reepidermised scars on the body.

Anti-redness effect was evaluated by spectrophotometer after the first application and at D15 D29, D57 and D85.

A study was then conducted on children having irritated skin to assess the clinical effectiveness of the product after 7 and 21 days of use on the selected area.

Results: Spectrophotometer measurement demonstrated that the tested product significantly ($p < 0,05$) increases the clarity of the scar from D1 and thus has an anti-marks efficacy, confirmed by a visual analysis of the macrophotographs.

In children, the tested product significantly reduces ($p < 0,01$) pruritus after the first application, thus improving their quality of life.

Conclusion: Wound-healing aims to restore the functions of damaged tissues but can lead to aberrant scarring. To avoid it, physicians recommend massaging the scar to degrade excessive and nonpliable collagen.





In this context, our massage cream with anti-redness and anti-pruritus properties represents a relevant option in treating scars and their functional signs.

