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The benefits of a specific ecobiological cleansing balm texture for cleansing a skin lesion during the healing process

H. Polena¹, M. Salvert¹, C. Tomelka¹, M. Chavagnac¹, A. Buisson¹, N. Ardiet¹, M. Sayag¹ and C. Graizeau^{1,2}

¹NAOS Ecobiology Company (Bioderma), R&D Department, Aix-en-Provence, France; ²NAOS Institute of Life Science, Aix-en-Provence, France

INTRODUCTION

Today, healthcare professionals agree that cleansing should be the first step in a wound care programme to ensure optimal healing. However, the pain generated by the lesion and fear of touching the lesion contribute to patients' non-compliance with wound cleansing, which directly affects the quality of healing. The aim of this study was to assess the tolerance and efficacy of a new cleansing balm specifically developed to support the early stages of wound healing thanks to its ecobiological formula, i.e. a formula that protects the skin's ecosystem and reinforces its natural mechanisms using biomimetic ingredients.

MATERIALS AND METHOD

5 in vivo studies were carried out to assess the tolerance and efficacy of the cleansing balm:

- <u>Clinical studies on benign everyday lesions in adults and children</u>: 30 children (average age: 16.8 months) and 33 adults (average age: 44 ± 2 years). Use (twice a day) for 21 and 28 days respectively, under dermatological, ophthalmological, gynaecological and paediatric supervision. A self-assessment questionnaire was completed by the parents or subjects on D0 and on D21 or D28 respectively.
- <u>Post-surgery clinical study</u>: 31 subjects (average age: 33 ± 11 years) under dermatological and gynaecological supervision. Use (once or twice a day) for 28 days on post-episiotomy sutures (5 to 10 days post-delivery), caesarean section after removal of sutures (7 to 13 days post-delivery), scalp after removal of sutures/staples (11 to 19 days post-surgery). A self-assessment questionnaire was completed by the subjects on D0 and D28.
- <u>Clinical study on oncology targets</u>: 22 subjects (average age: 55 ± 10 years) for 28 days under dermatological supervision. Use (once or twice a day) on oncological surgical scars after removal of sutures/staples (18 to 26 days post-surgery) or on radiodermatitis. A self-assessment questionnaire was completed by the subjects on D0 and D28.
- <u>Instrumental study</u>: corneometry on 9 subjects with dry skin (average age: 49 ± 6 years) with a skin hydration level <40 A.U. (arbitrary units). Use for 28 days (once a day). Analysis on the forearm on D0 and D28, compared with an untreated area.

RESULTS

Very good tolerance

- > In all the clinical studies, the cleansing balm showed very good cutaneous, ocular, gynaecological and paediatric tolerance.
- > This was due to a formula that has an enveloping, creamy texture and a physiological pH (pH ~5-5.5), with 93% biomimetic ingredients; the formula is also fragrance-free to respect the skin's sensitivity and ecosystem.

Pro-comfort texture for better compliance

Percentage satisfaction (self-assessment)

	Post-surgery target	Oncology target	Benign lesions target (adults)	Benign lesions target (children)
Organoleptic assessment				
The texture prevents fingers from	97%	100%	100%	87%
rubbing against the weakened area				
The texture is enveloping and creamy	97%	100%	94%	96%
Immediate efficacy				
The skin feels comfortable	97%	100%	100%	100%
The skin is soothed	97%	95%	100%	87%
Efficacy after 28 days				
The skin feels comfortable	94%	100%	100%	100%
The skin is soothed	94%	100%	100%	96%

Thanks to its **thick, creamy texture**, the cleansing balm prevents fingers from rubbing against the weakened area, reducing discomfort.

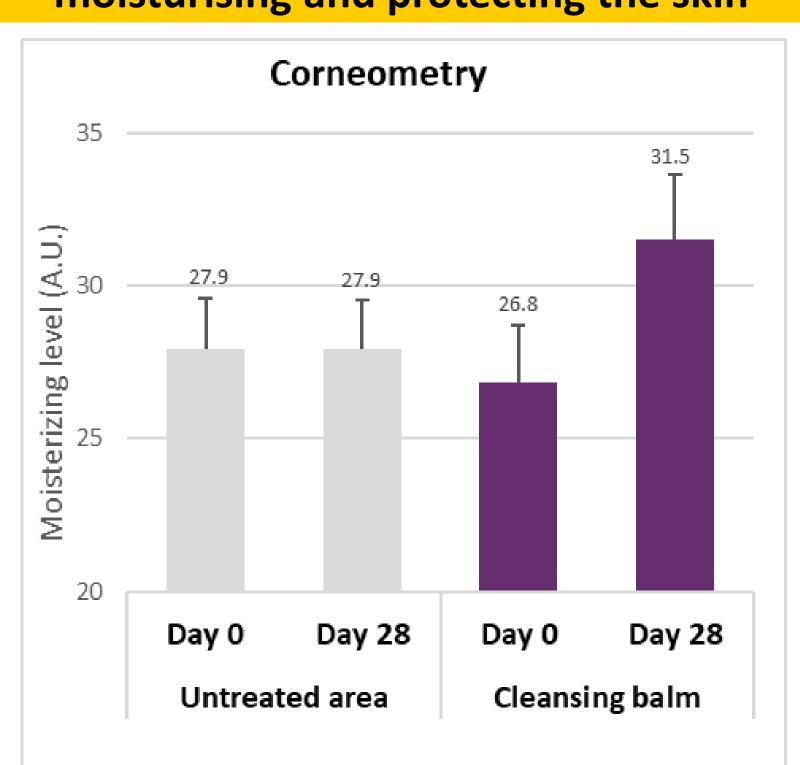
Gentle cleansing and easy rinsing

Percentage satisfaction	(self-assessment)

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	Post-surgery target	Oncology target	Benign lesions target (adults)	Benign lesions target (children)	
Organoleptic assessment					
The product gently cleanses	100%	100%	100%	100%	
The product is easy to rinse	100%	100%	100%	96%	

The cleansing balm cleanses weakened skin thanks to **gentle surfactants that prevent the skin from becoming stripped** and that make rinsing easier. It also contains **zinc gluconate** which, with its antimicrobial properties, helps to **limit the risk of infection**.

First step of skincare: moisturising and protecting the skin



- The cleansing balm **significantly increases** skin hydration levels between D0 and D28 (Student's test, p≤0.05).
- The cleansing balm contains a biomimetic sugar, saccharide isomerate, which covalently binds to the *stratum corneum* and helps retain water in the epidermis.
- The cleansing balm leaves a protective film (for 94%, adult benign lesions target) on the skin's surface thanks to 13% biomimetic lipids (squalane, oleic acid and linoleic acid) that help restore the hydrolipidic film.

CONCLUSION

The ecobiological formula of this new cleansing balm ensures high tolerance and provides the balm with moisturising, purifying and protective properties. Its enveloping, creamy texture limits direct contact between the fingers and damaged skin, so there is no sensation of discomfort on application. This cleansing balm improves patient compliance with cleansing, which is the first step in wound care for optimal healing.