

Dual function of make-up formula for camouflage and skin care in capillary disorders

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CENTRE FOR SCIENCE AND RESEARCH

Introduction and Objectives



bio-med.pl

skin redness
dilated capillaries
flushing and blushing



top10homeremedies.com

pre-rosacea
rosacea



Esteticetnre.com

dermatological treatment
aesthetic procedures

Introduction and Objectives

The aim of the research was the *in vivo* evaluation of dual function topical product :

- 1) safety and redness reduction efficacy of fluid foundation containing **anti-inflammatory tetrapeptide** and ***Laminaria ochroleuca* extract**
- 2) camouflage properties for skin with redness, dilated capillaries, pre-rosacea symphoms – **spherical ultrafine monosized beads**
(Polymethyl Methacrylate)

Introduction and Objectives

General information

Anti-inflammatory tetrapeptide (Lipotec)

Function

- ❖ alleviation of UVB-induced inflammatory response (inhibition of IL-6 and IL-8 release)
- ❖ inhibition of collagenase activity
- ❖ reduction in melanin content and tyrosinase activity
- ❖ photoprotection against UVB radiation

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Introduction and Objectives

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***Laminaria Ochroleuca* Extract (BiotechMarine®)**

oil extract containing phosphatidylcholine, derivatives of α -lipoic acid and vitamins

Function

- ❖ protection of epidermal cells
- ❖ alleviation of UVB-induced inflammatory response
(inhibition of inflammatory molecules release: IL-6, IL-1, IL-10, PGE-2, TNF- α , LTB-4 and COX-2)
- ❖ inhibiting the neuro-inflammatory cascade
(Substance P, CGRP and acetylcholine)
- ❖ reducing the amount of „Sunburn Cells”
- ❖ protection of DNA
- ❖ moisturizing and prevention of water loss

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Materials and methods

In vivo study

Group of patients
Application
n = 29

- ❖ volunteers with dilated capillary skin, aged 24-58 years
- ❖ every day (min. 1 per day) for 2 weeks

Instrumental
evaluation
n = 10

- ❖ skin erythema level
VISIA System, Canfield
- ❖ coverage and camouflage efficacy after 1 application
photographic imaging system Foto Finder

Self-assessment
questionnaire

- ❖ safety
- ❖ visibility of erythema
- ❖ visibility of dilated capillaries
- ❖ corrective properties

Results

In vivo study

Safety

Good tolerance of the tested formula by **97%** of patients

Self-assessment questionnaire

93% the formula reduces skin redness

93% the product alleviates irritation

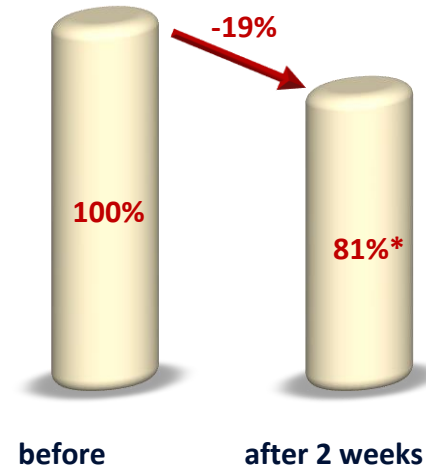
93% application is easy and convenient
(applies evenly – no streaks)

90% wish to use this product in the future

Results

Instrumental evaluation
in vivo

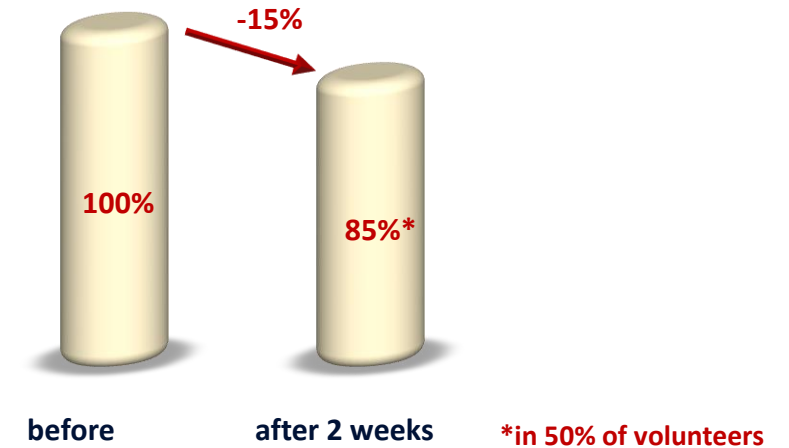
Number of dilated capillaries



*in 50% of volunteers

15% reduction of erythema
in 50% volunteers

Erythema level



19% decrease in number of dilated capillaries
in 50% volunteers

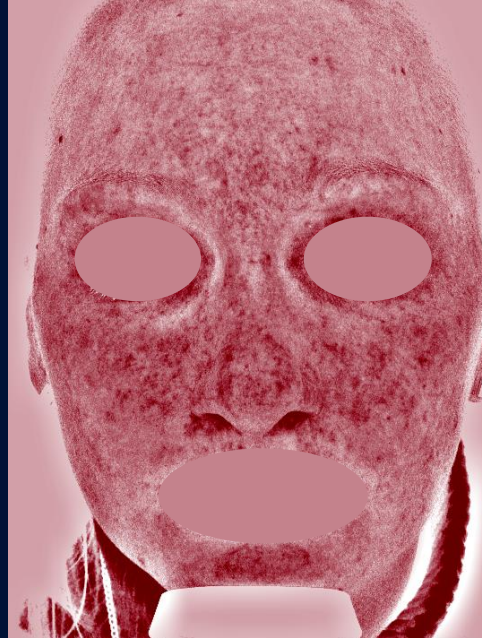
Best case report

skin redness reduction

Reduction of visibility and intensity of erythema
(VISIA System)



Before



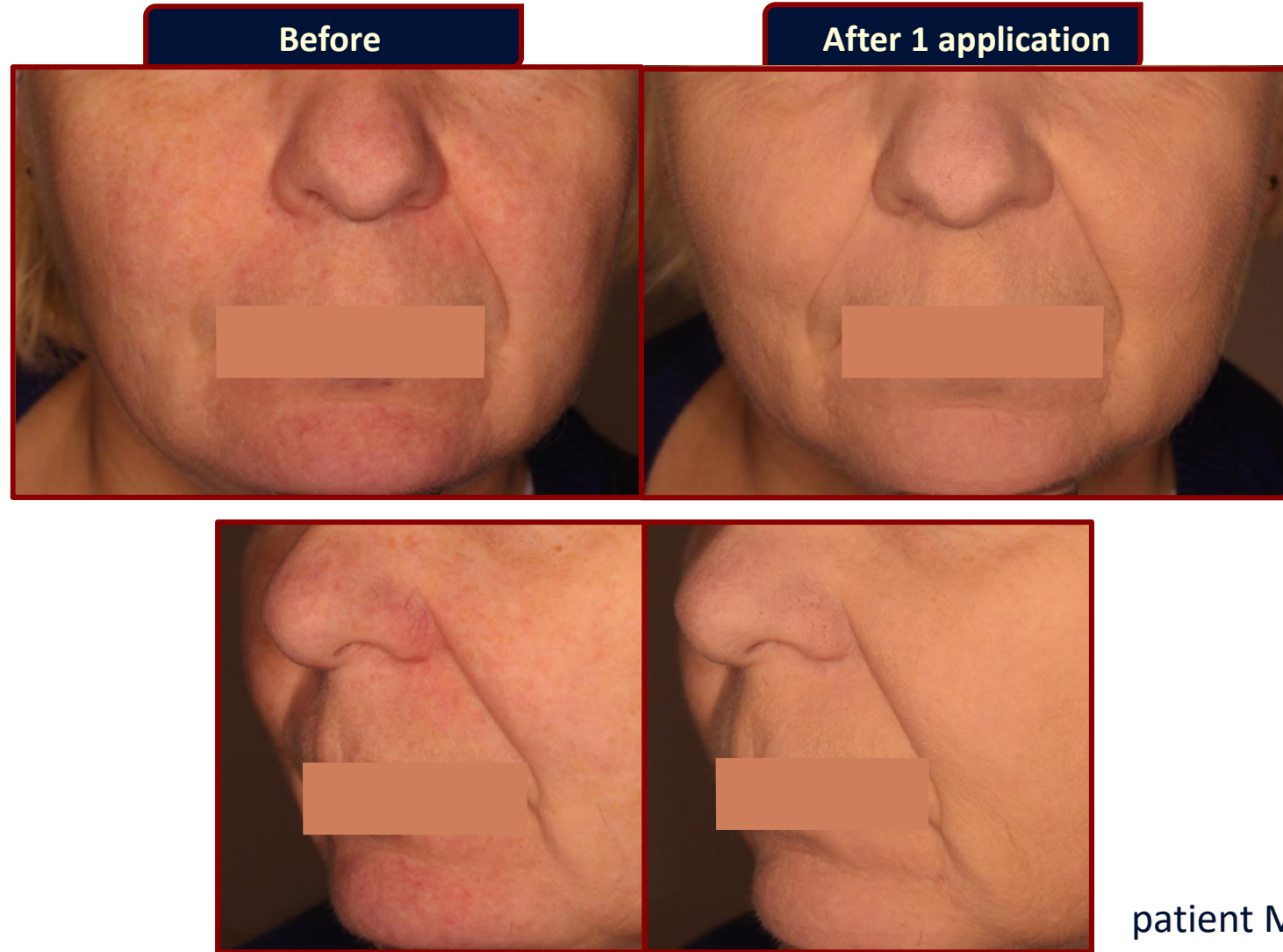
After 2 weeks

visibility and intensity of erythema
[arbitrary units]

Before	After 2 weeks	Reduction
40,209	30,932	- 23%

patient ML, age 36

Assessment of correction and camouflage efficacy



patient MS, age 57

Assessment of correction and camouflage efficacy



patient RD, age 45

Conclusions

- ✓ The formula **efficiently reduces redness and erythema level as well as the visibility of dilated capillaries.**
- ✓ The product is **highly effective in covering red areas.**



Product application		
pre-rosacea, rosacea	dilated capillaries, skin redness, flushing and blushing	after aesthetic procedures