

# Efficacy evaluation of a re-modelling face care product.

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## Introduction

Skin ageing is an important and interesting topic of study. It is a result of a combination of intrinsic ageing and photoageing, which is due to the environmental influence. The cosmetic industry creates and develops constantly improving products for the ageing population.

## Objectives

The aim of this study was to evaluate the in vivo efficacy and beneficial effects of application of a re-modelling face cream containing an anti-wrinkle peptide, vitamin E, proteins from sweet almonds and peach oil.

## Methods

The study was conducted on the population of 29 women, aged 46 to 63 years old. All subjects have been using the cream for 3 weeks. During this period, we analyzed such skin parameters as: skin moisturization, elasticity, smoothness of the skin surface (utilizing Corneometer CM 825, Cutometer SEM 575, Video Digitizer VD 300, Courage-Khazaka Electronic GmbH, Germany) as well as face relief (Primos, GFM, Germany). All measurements were made at the beginning, after one application and after 1 and 3 weeks of treatment. At the end of the study all subjects completed surveys in which they could assess the cosmetic features of the product and perform a self-evaluation of the proposed face care.

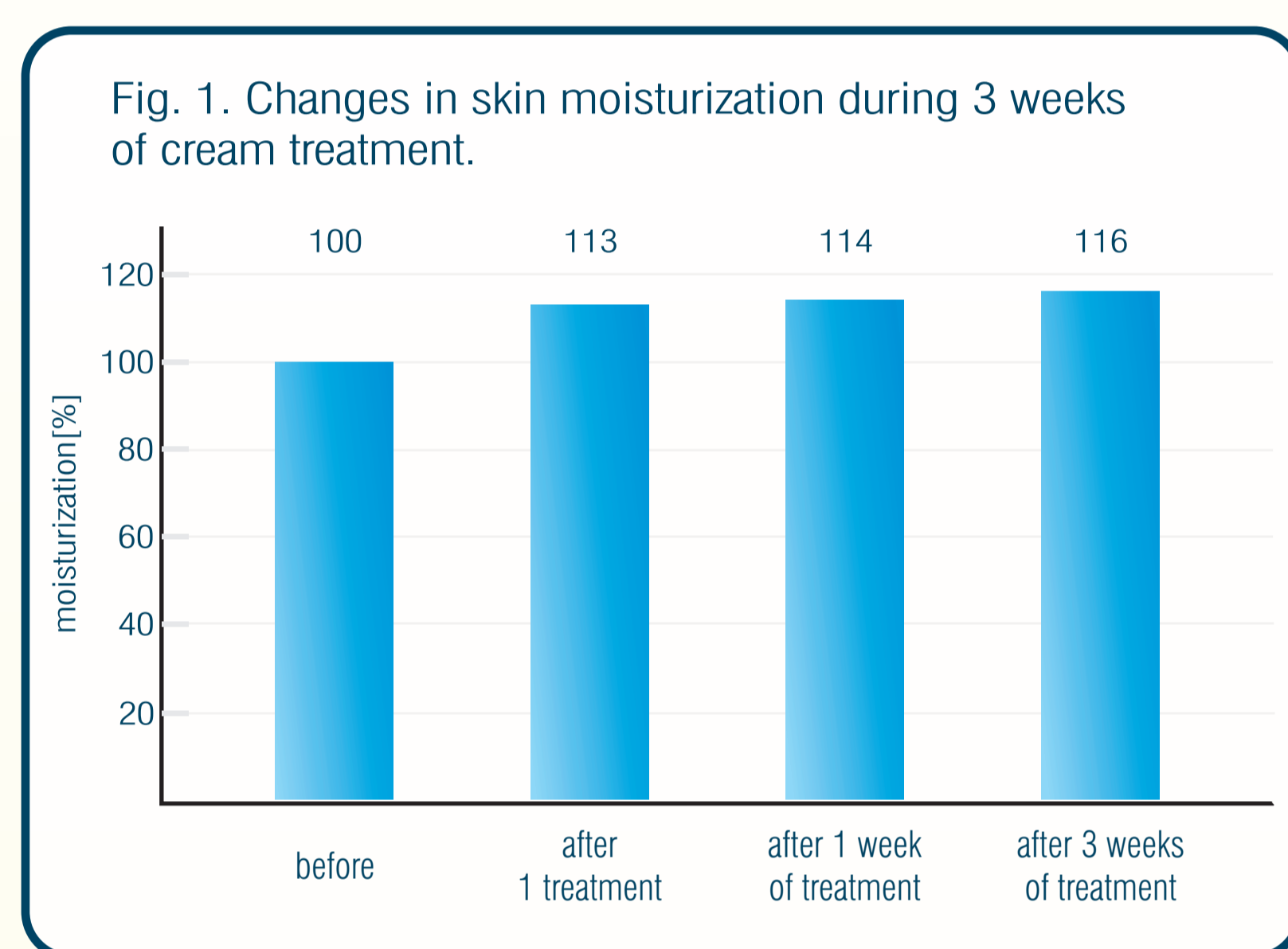
## The tested cream ingredients (INCI)

Aqua, Glycerin, Lanolin, Polyglyceryl-3 Methylglucose Distearate, Sorbeth-30, Pentaerythrityl Tetraisoostearate, Tocopheryl Acetate, Dimethicone, Isopropyl Isostearate, Sodium Polyacrylate, Prunus Persica (Peach) Kernel Oil, Prunus Amygdalus Dulcis (Sweet Almond) Seed Extract, BHA, Sodium Hyaluronate, Butylene Glycol, Sodium Citrate, Xanthan Gum, Tocopherol, Cyclodextrin Laurate, Cyanocobalamin, Chlorphenesin, Methylparaben, Parfum

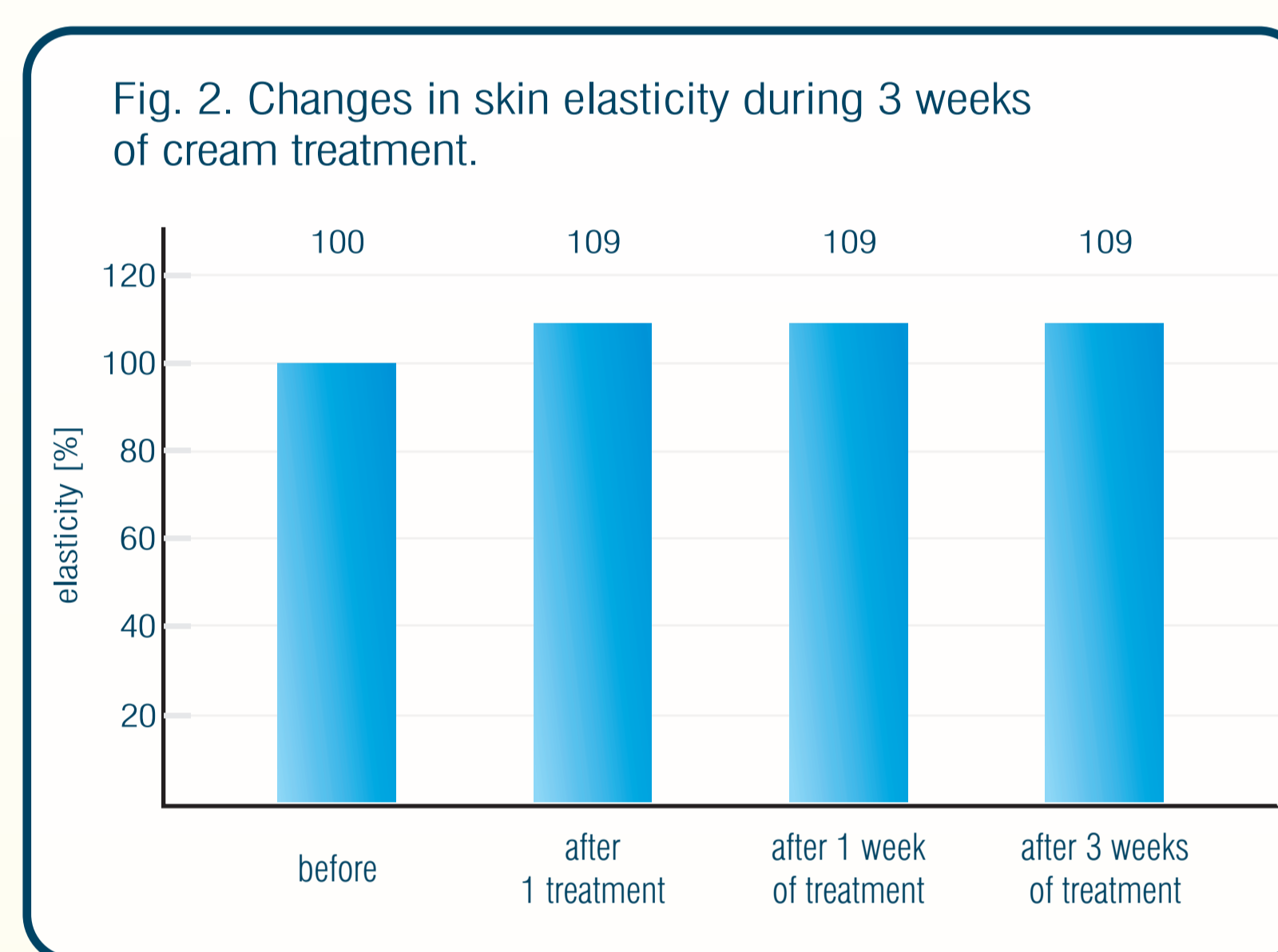
## Results

During 3 weeks of the treatment we observed gradual improvement in measured skin parameters:

- increase in skin moisturization (up to +16%), Fig. 1



- increase in skin elasticity (+9%), Fig. 2



- reduction in number of wrinkles (up to -22%), Fig. 3

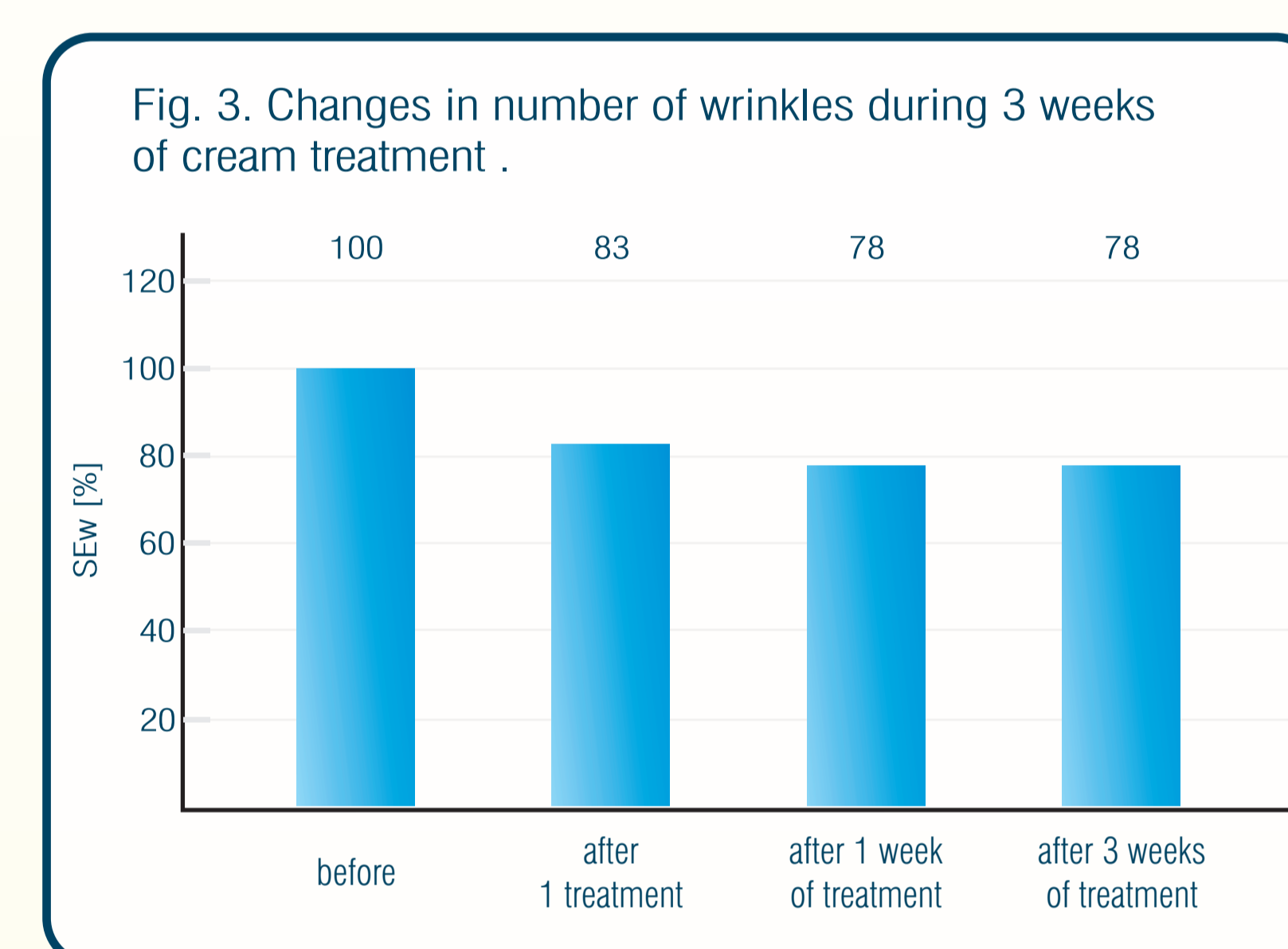


Fig. 4. Face remodelling effect in volunteer KJ before and after 3 weeks of cream treatment.

## Results

The cream significantly improved the face relief of the volunteers after 3 weeks of treatment and produced a significant firming effect of the volunteers' face skin. The product globally improved face skin appearance (Fig.4).

The tolerability of the tested cream was very good. The self-evaluation by volunteers of the tested formula and improvement of the face skin structure were very high. Immediately after application of the cream, the skin was:

- soft (100% satisfaction),
- delicate and moisturized (90% satisfaction),
- smooth, elastic and silky (85% satisfaction).

The cosmetic features of the cream (consistence, fragrance, skin absorption, texture) were also very good.

## Discussion and Conclusions

Application of the tested face cream significantly improved skin condition. The product provided a firming effect on the skin and a restructuring/remodelling effect on the face. The cream was very well tolerated by volunteers and it has very good cosmetic features. The tested cream contains a peptide responsible for induction of TGF- $\beta$  synthesis, which stimulates collagen production by fibroblasts. Vitamin E, included in the cream, is a well-known antioxidant, which protects skin against oxidative stress. Proteins from sweet almonds and peach oil nourish the skin and make skin epidermis smooth and soft. These ingredients also have regenerating properties and improve skin lipid barrier. Aged skin needs appropriate care. Cosmetic products should restore skin functions damaged by external factors and should also have a very good subjective evaluation.