

# **The assessment of the effect of a cosmetic product brightening the skin of people with discolorations of different etiology**

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## **Introduction**

Hyperpigmentations are disorders displaying with the color change of the skin, its non-specific shape, the lack of symmetry and the irregular location. They appear regardless of age, sex and often as a congenital defect. From the medical point of view, it is a disorder connected with overproduction of melanin by pigmentary cells. The formation of discolorations is due to both endogenous and exogenous. Cosmetics typically applied can help with uneven colors of the skin.

## **Purpose**

The aim of the work was to assess the effectiveness of a cosmetic product applied on a skin with discolorations of different etiology.

## **Methods**

The research was conducted in a group of 30 volunteers (agreement of the Ethics Commissions no RNN/58/15/KE/M) at the mean age of 49 who has used day cream for 6 weeks. The condition of the skin was measured at the beginning of the research, and after 3 and 6 weeks of using the product. The measurement of the cheeks and the forehead skin was carried out by using Mexameter and VISIA Complexion analysis. The volunteers assessed subjectively the effectiveness of the product. The cosmetic product (no 1473) consisted of the UVB/UVA filters, vitamin PP, shea butter, vitamin E, Rumex extract and biomimetic peptide (antagonist MSH).

## **Results**

The regular application of the cream has caused the lightning of the facial skin by 13% in 88% respondents, and by 20% in 96 % respondents, respectively, after 3 and 6 weeks. (Mexameter). At the same time the number of UV spots has dropped by 9% in 80%, respondents, and by 10% in 84% respondents (VISIA complexion analysis). After 6 weeks of using the product, 83 % of volunteers agreed that the skin was lightened, about leveled colors. Moreover, the volunteers has claimed that the tested product has moisturizing and smoothing features.

## **Conclusions**

The regular use of the cosmetic product that contains a combination of vitamin PP, Rumex extract and biomimetic peptide reduces the intensity of discolorations of different etiology. The contest of the filters helps to prevent the formation of hyperpigmentation and it can be also used as a complement to pharmacological treatment.