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VERGLEICHsstUDIE ZUR OBJEKTIVEN
FALTENTIEFENMESSUNG
VOR UND NACH BOTULINUMTOXIN A-INJEKTIONEN

KOMBINATIONSBEBANDLUNG ZUR OPTIMIERUNG
DES KOSMETISCHEN ERGEBNISSES BEI RADIÄREN
OBERLIPPENFALTEN

BULLOUS SYSTEMIC LUPUS ERYTHEMATOSUS:
A CASE WITH FEATURES OF
EPIDERMOLYSIS BULLOSA
ACQUISITA AND REVIEW OF
THE LITERATURE

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No-needle mesotherapy in a beauty salon or a daily anti-wrinkle cream application – which is better?

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INTRODUCTION

The current possibilities of anti-wrinkle treatments include a wide selection of procedures, the most popular of these being cosmetic treatments in beauty salons and home use of anti-wrinkle cosmetic products. The aim of this study was to compare the in vivo efficacy and beneficial effects (measured by Primos) of an anti-wrinkle cosmetic treatment (based on water lily, bamboo and white lotus extracts) and 4-weeks applications of an anti-wrinkle face cream (containing anti-wrinkle peptides, sweet almond proteins and rice oil).

Primos, developed by GFMesstechnik GmbH, is one of the most advanced apparatus for evaluating the topography of the human skin surface. This three-dimensional, optical measuring device is based on a digital stripe projection. A special Primos software provides the comparison ability of the measured data in the same area of the skin during the tests in different time points. Therefore it is an ideal tool for objective cosmetics efficacy evaluation.

MATERIALS AND METHODS

The study was performed on a group of woman subjects, aged over 35. At first, subjects took part in 4 cosmetic treatments of no-needle mesotherapy, twice a week. Then (after a 3 month break) volunteers used the face cream for 4 weeks, once a day.

We analyzed the smoothness of the skin surface and depth of nasolabial folds (Primos, GFMesstechnik, Germany). All measurements were taken at the beginning and after 4 treatments. Furthermore, 2 weeks after the last cosmetic treatment, the depth of the face furrow was checked again and compared. After a 3 months break, the same group of volunteers started an application test of the face cream, which lasted for 4 weeks. The same skin parameters as before were analyzed before the beginning of the test and after 2 and 4 weeks of cream application, as well as 4 weeks after the last cream application.

RESULTS

The evaluation of the depth of nasolabial folds showed a decrease of this parameter after 4 treatments of no-needle mesotherapy when compared to the value before treatments. This effect sustained after four treatments and was still visible even after 2 weeks after the last of the cosmetic treatments. Fig. 1 shows the photographic documentation of the changes in nasolabial fold depth before the treatments, after four treatments and 2 weeks after the last treatment. Fig. 2 and 3 show the results of the analysis of the skin surface performed with Primos, GFMesstechnik, the corresponding microprofile of the nasolabial fold as well as the changes in its depth.

The results of the skin evaluation after 4 weeks of the application of the face cream were comparable to the ones obtained after a series of cosmetic treatments (4 treatments altogether, applied for 2 weeks). Fig. 4 shows the photographic documentation of nasolabial fold depth during the test. Fig. 5 and 6 show the results of the analysis of the skin surface performed with Primos, GFMesstechnik, the corresponding microprofile of the nasolabial fold as well as the changes in its depth.

The self-evaluation of the tested treatment and a cosmetic product as well as of the improvement in the facial skin structure were very high in both cases.

DISCUSSION AND CONCLUSIONS

After four no-needle mesotherapy treatments (performed during 2 weeks) we observed a similar although a bit stronger decrease in nasolabial fold volume as compared to the result after 4 weeks of a regularly used cream. The treatment's effect was still visible even after 2 weeks after the last treatment (regarding the nasolabial fold volume and depth). This suggests that a cosmetic treatment in comparison to a cosmetic product application regime, provided stronger and more visible results, which were also observed much faster. A patient wanting to improve skin condition quickly should therefore consider beauty treatments rather than retail cosmetics alone. Nevertheless, it stays true that a regular and systematic skin care should not be neglected either, as it allows the effects to persist.

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COSMETIC TREATMENT



Fig.1: Photographs of a nasolabial fold. A. before any cosmetic treatment; B. after four treatments of no-needle mesotherapy; C. 2 weeks after the last no-needle mesotherapy treatment.

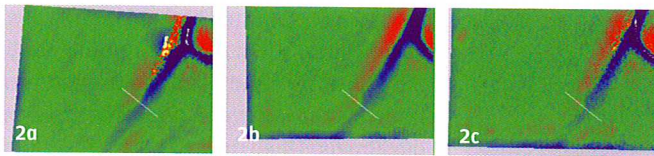
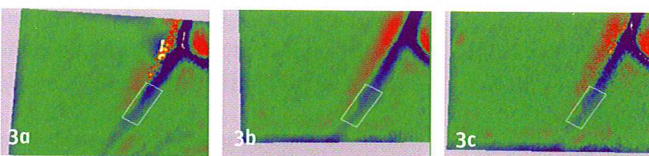
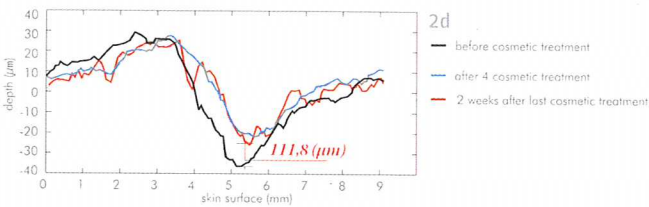


Fig. 2: Results of the analysis of the skin surface and the depth of a nasolabial fold performed with Primos, GFMesstechnik and the corresponding microprophiles. A. before any cosmetic treatment; B. after four treatments of no-needle mesotherapy; C. 2 weeks after the last no-needle mesotherapy treatment; D. Skin microprophiles before any cosmetic treatment (black line), after four treatments (blue line) and 2 weeks after the last treatment (red line).



3d	Volunteer	Nasolabial fold volume (mm ³)
	Before treatment	7,730482
	After 4 treatments	4,955477
	2 weeks after last treatment	5,245267

Fig. 3: Results of the analysis of the skin surface and the depth of a nasolabial fold performed with Primos, GFMesstechnik and the corresponding estimated volumes of the nasolabial fold. A. before any cosmetic treatment; B. after four treatments of no-needle mesotherapy; C. 2 weeks after the last no-needle mesotherapy treatment; D. table summarising the estimated volumes of the nasolabial fold.

CREAM

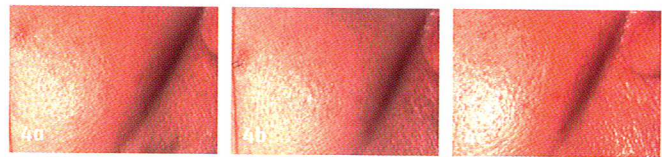


Fig. 4 Photographs of a nasolabial fold. A. before any cream application; B. after 4 weeks of cream application; C. 4 weeks after the last cream application.

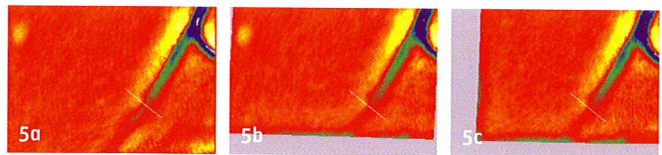
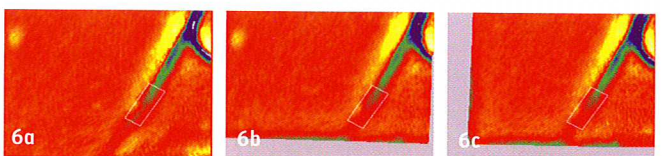
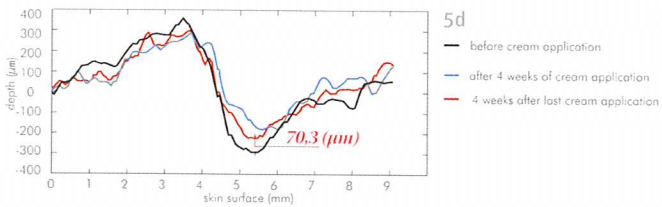


Fig. 5: Results of the analysis of the skin surface and the depth of a nasolabial fold performed with Primos, GFMesstechnik and the corresponding microprophiles. A. before any cream application; B. after 4 weeks of cream application; C. 4 weeks after the last cream application; D. Skin microprophiles before any cream application (black line), after 4 weeks of cream application (blue line) and 4 weeks after the last cream application (red line).



6d	Volunteer	Nasolabial fold volume (mm ³)
	Before treatment	7,730482
	After 4 treatments	4,955477
	2 weeks after last treatment	5,245267

Fig. 6: Results of the analysis of the skin surface and the depth of a nasolabial fold performed with Primos, GFMesstechnik and the corresponding estimated volumes of the nasolabial fold. A. before any cream application; B. after 4 weeks of cream application; C. 4 weeks after the last cream application; D. table summarising the estimated volumes of the nasolabial fold.

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