**CLINICAL STUDIES OF A NEW AVOCADOFURANE® CONTAINING CREAM FOR THE PREVENTION OF CUTANEOUS EXTRINSEC AGING**

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**Introduction**

Aging is a natural phenomenon which affects the entire body, its mechanisms are not yet fully understood. Pre-determined genetic clock? Accumulation of DNA damage? Role of oxygen-free radical species? It seems that extrinsic factors play a major role during aging.

A study with monozygote twins showed that environmental factors (health, lifestyle, sun exposures, nutrition…) represent 75% of aging and that the genetic part is only 25%.

Skin aging of the face may appear very early because it is constantly exposed to environmental aggressors: UV radiations, wind, cold, cigarette smoke, pollution… Clinical stigmata of skin aging may appear as early as 25 or 30 years old with small lentigines, skin dryness and development of periorbital wrinkles.

**References**


**Protocole**

- **Trial A**: conducted on 28 females (mean age 29, sensitive skin 50%) under dermatological control, with twice daily applications for 6 weeks and evaluations at W0 , W4 and W6.

Clinical and biometrological evaluations were performed at each visit:
- Clinical evaluations by dermatologist (smooth aspect, brightness and uniformity of complexion)
- Silicate replica (SIR) of the crow’s feet areas with video-microscopy analysis of the micro relief
- Corneometry on the cheeks for hydration evaluations.

Statistical evaluations used Student test and Wilcoxon tests.

- **Trial B**: Clinical multicentric study (18 dermatologists) on 118 young females (25-38 years old) who have applied the product twice daily for 22 weeks.

Evaluations at W0, W6, W14 and W22, with dermatologic examinations and auto-evaluation questionnaires.

**Results**

Among the 118 females included, 17 have been lost of follow-up and 8 stopped the study. Thus, 93 volunteers have been evaluated. They were all phototypes IV and V. Questionnaires on the extrinsic risk factors of premature skin aging to which the panel of volunteers are exposed are listed in Table 1.

**Conclusion**

It is now obvious that all the mechanisms leading to skin aging begin early in life and that it is possible to slow down their disruptive effects. The product including Avocadofurane®, patented Pentapeptides and vitamin C represents an original and effective response for the prevention of extrinsic premature skin aging.

Following these in vitro studies, results of in vivo trials have shown statistically significant improvement of the parameters studied, either by clinical or by biometrological means. This study has been paralleled by a large in-use test under dermatological control. Results have been in the same rank and tolerance has been excellent.

This association between in vitro studies on separate active ingredients and objective studies with non invasive biometrological techniques and large clinical in-use test represents the standard of cosmetic development and should be mandatory for all new products. Helyx.C®, Dermatologists Pharmascience®.