

STUDY ON THE VALORIZATION OF *SALVIA OFFICINALIS* VOLATILE OIL IN DERMATO-COSMETOLOGY

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OBJECTIVES AND BACKGROUND

Recent studies have revealed other properties of *Salvia Officinalis*, such as its anti-inflammatory, antimicrobial, hypoglycaemic and antioxidant potential. It is also implicated in the prevention of neurodegenerative diseases and has several other beneficial effects (1). *Salvia Officinalis* contains estrogenic substances, sitosterol, vitamins B1 and C, organic acids etc., which have a theoretically positive effect in the anti-aging process. Additionally, our premise was that the anti-aging effects have a solid specific support: the anti-glycation effect of *Salvia Officinalis* (2).

MATERIALS AND METHODS

Salvia Officinalis volatile oil has been incorporated into an ointment base in order to obtain a cosmetic cream W/O type. A number of three creams were prepared using three different concentrations of *Salvia Officinalis* volatile oil (0,5 and 1,5 respectively).

RESULTS

In order to characterize the obtained creams, corneometry was used to measure the skin hydration degree. A number of 15 volunteers, aged between 20 and 50 years underwent customer testing. This test has provided information on the left gloss, smoothness, residue, side effects and penetration ability of the three creams, with different concentration of *Salvia Officinalis* volatile oil. We observed a significant increase (twice the initial value) in the degree of skin hydration in all subjects who used the cream and especially in those who applied the cream containing 1,5 concentration of *Salvia Officinalis* volatile oil.

CONCLUSIONS

The three creams with different concentrations

Subjects	Week 0		Week 1		Week 2		Week 3		Week 4	
	crono-	foto-	crono-	foto-	crono-	foto-	crono-	foto-	crono-	foto-
1	25,1	20,2	26,2	22,4	34,5	36,6	46,2	35,3	53,3	38,6
2	35,8	37,3	38,8	39,4	46,7	42,3	51,2	50,8	53,5	54,1
3	17,5	16,4	20,9	20,1	28,1	26,2	35,7	32,8	40,3	37,2
4	20,7	19,8	23,8	23,3	28,9	30,1	34,7	36,3	39,9	40,1
5	32,1	30,1	35,1	35,4	42,8	31,6	47,5	37,1	52,3	43,3

of *Salvia Officinalis* volatile oil were well tolerated by patients and showed beneficial effects in preventing dehydration and restoration of skin elasticity.

Table 1. Subjects who applied the cream containing a 1,5 concentration

REFERENCES

- Garcia CSC, Menti C, Lambert APF et al. Pharmacological perspectives from Brazilian *Salvia officinalis* (Lamiaceae): antioxidant, and antitumor in mammalian cells. *Anais da Academia Brasileira de Ciências*. 2016;88:281-292.
- Farris PK. Innovative Cosmeceuticals; Sirtuin Activators and Anti-Glycation Compounds. *Semin Cutan Med Surg*. 2011;30:163-166.