



ACNE, ROSACEA, AND RELATED DISORDERS (INCLUDING HIDRADENITIS SUPPURATIVA)

## EFFICACY OF A COSMETIC FORMULATION CONTAINING LICOCHALCONE A, SALICYLIC ACID, DECANEDIOL AND SEBUM-REGULATING TECHNOLOGY WITH L-CARNITINE IN SUBJECTS WITH ACNE LESIONS

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**Introduction:** 9.4% of the global population is estimated to suffer from acne, making it the 8th most prevalent disease worldwide and one of the most frequently treated indications in the dermatologist's office. Acne is nowadays considered as a chronic disease as acne lesions typically recur for years. Therefore it is recommended in the European S3 Acne Guideline to follow up the acne treatment phase by a maintenance phase. Here effective cosmetic formulations especially developed for acne-prone skin can be a good option as part of the acne maintenance routine. Another important aspect is that according to latest research, inflammation is present at all stages of acne- ranging from subclinical micro-inflammation to inflamed papules/pustules. Hence, anti-inflammatory actives are beneficial in the maintenance routine as well.

**Material/methods:** In the presented study, 37 subjects (18-35 years, mean age 26.2 years) with acne lesions applied a cosmetic formulation containing a combination of the anti-inflammatory flavonoid Licochalcone A from Glycyrrhiza inflata root extract, comedolytic and antibacterial Salicylic Acid, antibacterial Decanediol and sebum-regulating L-Carnitine twice daily for 8 weeks.

**Results:** Dermatologist's evaluation of the skin status revealed significant improvements with regards to acne lesions - comedones as well as inflammatory lesions. Instrumental measurement (sebumetry) verified the sebum-reducing properties of the cosmetic formulation. The skin shine, pore size and redness as assessed by the subjects was significantly decreased. In a second study with 80 subjects (15-40 years) with acne-prone skin, it was confirmed by the subjects that the cosmetic formulation soothes irritations, is long-lastingly mattifying and visibly reduces blemishes.

**Conclusions:** The formulation was very well tolerated and offers an effective solution for





daily skin care as part of a maintenance routine for subjects with acne-prone skin.

