



AESTHETIC AND COSMETIC DERMATOLOGY (LASERS SEPARATE CATEGORY)

MULTI-DIRECTIONAL APPLICATION OF TOPICAL EYE CREAMS FOR IMPROVED COMFORT AND EFFICACY

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Introduction: The first signs of skin aging are often noticed around the eye. Symptoms of periorbital aging include eyelid drooping, dark circles, under eye bags, puffiness or fine lines and wrinkles. Lack of sleep, water retention, smoking or photodamage are some exacerbating factors associated with periorbital aging. Topical eye creams may alleviate these symptoms, but gentle mechanical treatment during application may further improve the signs of periorbital aging through stimulation of fluid removal and extracellular matrix enhancement. Based on earlier research on skin movement technology, a novel treatment device was developed to apply topical eye creams.

Objective: To investigate the comfort, tolerance and efficacy of a novel treatment device designed to allow non-directional application of three different topical eye creams.

Materials and Methods: 45 female subjects between ages 30-65 years of age, Fitzpatrick skin type I-IV with normal healthy skin were recruited for a single-site, IRB-approved clinical study. Subjects were randomized into three groups of fifteen and for 4 weeks, they used the novel mechanical periorbital treatment device with three different topical eye-area products. Subjects twice per day used the device with the assigned topical for 1 minute, subjecting 30 seconds each to left and right periorbital regions returning to the clinical site for evaluations at Week 1, 2 and 4.

Results: All three topical products were found to be tolerable and comfortable to use with the treatment device. Slight differences in performance, depending on specific graded attributes, were found between topicals.

Conclusions: Application of eye treatment products using the fingertips can undesirably stretch the more delicate under eye and periorbital areas unidirectionally. The novel treatment device for topical eye products provides a comfortable, gentle multi-directional application allowing for improvement in the symptoms of aging around the eyes.

