



AESTHETIC AND COSMETIC DERMATOLOGY (LASERS SEPARATE CATEGORY)

## TREATMENT COMBINED OF DARK CIRCLES, STUDY OF THE SAFETY AND EFFICACY

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**Introduction:** Dark circles are characterized by fluid accumulation, sagging and wrinkles on the eyelids, as well as increased skin pigmentation, darker skin and even violaceous, resulting in an aged appearance and a tired face. It is usually caused by deficiency of both arteriovenous and lymphatic microcirculation and deficiency in the quantity and quality of elastic fibers and collagen in tissues. In this study we propose a combined protocol that includes; pelling, periocular mask and microneedling.

**Objective:** Check the depigmentation and draining effectiveness of the peel for eye contour, face mask and periocular transepidermal solution

**Methodology:** Study carried out between April 2018-August 2018 witch 12 volunteers, age 30 to 55 years, any phototype, with dark circles of water component with or without darkening of your skin. We applied a peeling with azelaic acid, resorcinol, phytic, salicylic, lactic, citric, plus microneedling with tranexamic acid and a periocular mask. The data will be obtained with mexameter, ultraviolet, and normal light images, likert survey.

**Results:** The Likert assessment showed brightness; evident by 80%, reduction of pigmentation; 60% evident, 40% appreciable, uniformity of tone; 60% evident, 40% appreciable, firmness; evident 60%, appreciable 40%, decrease fine wrinkles; evident 40%, appreciable 40%, improved appearance of the skin; evident 40%, appreciable 40%. Depigmentation value was obtained according to the mexameter of decrease of melanine of 20 % and in the measurement with ultraviolet light, a decrease of up to 30 % of the baseline and decrease the wrinkles measured with facial analyzer of the 21%.

**Conclusions:** The hyperpigmentation and wrinkles decrease were significant and evident. The study shows the safety and efficiency with tranexamic acid, cutaneous plus transcutaneous for controlling the hyperpigmentation and rejuvenation of the periocular skin.

