

PIGMENTATION

SINGLE-BLIND, PLACEBO-CONTROLLED TRIAL TO EVALUATE CHANGE IN HYPERPIGMENTATION AFTER LASER OR CHEMICAL PEELING IN ASSOCIATION OR NOT WITH A NEW DEPIGMENTING FORMULA.

S Noviello⁽¹⁾ - A Maroni⁽¹⁾ - A De Santis⁽¹⁾ - M Tocchio⁽¹⁾ - G Cogliandro⁽¹⁾ - N Dibeneditto⁽¹⁾

Milano Estetica - Dr. Sergio Noviello, Cosmetic Surgery & Medical Spa, Milan, Italy⁽¹⁾

Background: Hyperpigmentation is one of the most common dermatological concerns in patients with all skin types, and it can have a great psychosocial impact. Given the high prevalence of hyperpigmentation and the considerable demand for an even complexion, there is a growing interest towards newer methods to treat and prevent the appearance and recurrence of dark spots.

Objective: The aim of this study is to evaluate the efficacy of LASER or peeling in combination or not with a depigmenting formula (Tetrapeptide-30, 4-Butylresorcinol, High Tech Vitamin C, Niacinamide, AHAs, Liposomal Tripeptide) in the treatment of hyperpigmentation.

Materials and Methods: A randomized, single-blind, placebo-controlled clinical trial was performed. All subjects were healthy adults aged 25-85 years old in general good condition. Subjects received LASER (Q-Switched KTP - NdYAG technology) or chemical peel associated or not with the depigmenting formula containing Tetrapeptide-30, 4-Butylresorcinol, High Tech Vitamin C, Niacinamide, AHAs and Liposomal Tripeptide. In all 100 patients dark spots were treated using 6 different methods:

peeling

peeling + placebo moisturizing cream

peeling + depigmenting formula

LASER

LASER + placebo moisturizing cream

LASER + depigmenting formula

Dark spots were assessed at the beginning of the study and after 4 weeks through clinical and self-assessment (grading scale 0-6), digital photography, microscopic camera and microscopic wood light camera.



Results: The best results were observed when the laser technology was combined with the new depigmenting formula. Peeling didn't show as satisfying results as compared to the laser treatment. However, the association of the topical depigmenting formula enhanced the results of the peeling treatment.

Conclusion: The depigmenting formula containing Tetrapeptide-30, 4-Butylresorcinol, High Tech Vitamin C, Niacinamide, AHAs and Liposomal Tripeptide improved the effectiveness of both the LASER and the chemical peeling treatments after one month. Further investigation may reveal long-term effects as the prevention of the appearance of hyperpigmentation.

