

INTEGRATIVE SKINCARE TRIAL OF 1064-NM PICOSECOND LASER FOLLOWED BY PHLORETIN, VITAMIN C AND FERULIC ACID SERUM FOR TREATMENT OF HYPERPIGMENTATION IN PHOTODAMAGED FACIAL IN LATIN SKIN

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INTRODUCTION

Hyperpigmentation is a common concern for Latin skin. Few published studies address overall skin rejuvenation in this group using picosecond laser (PL) to target pigmentation and stimulate dermal remodeling. The combination of Phloretin, Vitamin C and Ferulic Acid (PCF) topically has been shown to be efficient for the treatment of aging and hyperpigmentation on intact skin. The laser associated with drug delivery is a promising method to promote better penetration of actives into the skin, reduce side effects and improve results. The aim of this trial was to evaluate the short and long-term clinical efficacy of the combination of an antioxidant serum containing PCF with PL treatment.

MATERIAL & METHODS

Twenty subjects (age, 41–72 years; Fitzpatrick skin types II to VI) with clinical signs of photoaging and hyperpigmentation were enrolled in the study and submitted to 3 sessions of PL (1064 nm, 530 ps, Zye Vydence, Brazil) with 15 days intervals. After the procedure, they received PCF serum topically, and were instructed to self apply the same amount daily and sunscreen SPF 50 for 90 days. Subjects were evaluated in D0, D15, D30 and D90 after the first PL session. Clinical evaluation were conducted by dermatologists using GAIS (Global Aesthetic Improvement Scale Assessment) and WRS (Wrinkle Severity Rating Scale) scales, Visia® (Canfield Scientific, Inc, New York, NY) were used for objective analysis and standardized photos. The subjects were instructed to complete self-assessment questionnaires.

RESULTS

The treatment was well tolerated, and no unexpected adverse effects were observed. All patients stated that they were satisfied with their results, improvement of self-esteem and would recommend treatment. No severe adverse events were observed. The treatment achieved significant improvement in pigmentation ($p < 0.001$), however for wrinkles there was no statistical difference. Patient satisfaction was high with improvement of self-esteem.

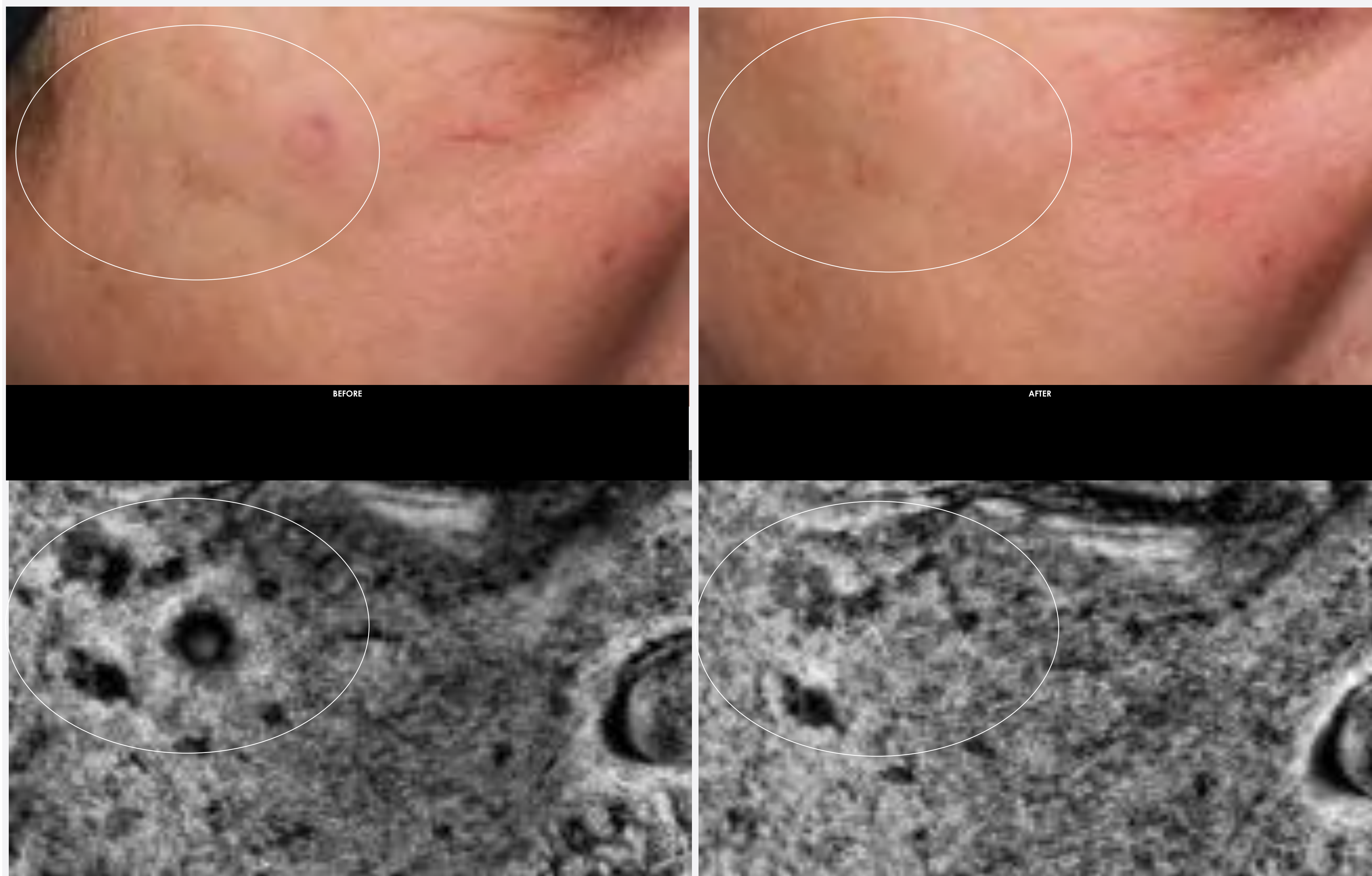


Figure 1: Subject before and after 90 days of hyperpigmentation treatment with 1064-nm picosecond laser and topical antioxidant serum containing vitamin C, ferulic acid, and phloretin.

DISCUSSION

Application of combination of an antioxidant serum containing PCF with a picosecond laser may complement laser treatment and can be helpful to treat hyperpigmentation in photodamaged facial Latin skin.

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Conflicts of interest:

Valéria Campos is a L'Oreal consultant. All other authors are employees at L'Oreal Group. The other authors have no conflict of interest to be declared.

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