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Combination of In-Office Chemical Peels With a Topical Comprehensive Pigmentation Control Product in Skin of Color Subjects With Facial Hyperpigmentation.

Downie J, Schneider K, Goberdhan L, Makino ET, Mehta RC. *J Drugs Dermatol.* 2017 Apr 1;16(4):301-306.

ABSTRACT

Dyschromia is one of the primary complaints for patients with skin of color. Treatments need to achieve a balance between tolerability and efficacy to address existing hyperpigmentation without causing additional damage that could trigger post-inflammatory hyperpigmentation (PIH). An open-label, single-center study was conducted to assess the efficacy of a novel comprehensive pigmentation control serum (LYT2) combined with a series of three very superficial chemical peels (VP) in skin of color subjects. Seventeen female and male subjects aged 36 to 69 years with Fitzpatrick Skin Types III-VI and moderate to severe facial hyperpigmentation were enrolled in the 12-week clinical study. Subjects identified as Asian, Hispanic, African American, or Caucasian ethnicities. Subjects received a series of 3 VP treatments every 4 weeks. LYT2 was applied twice-daily in between VP treatments. Investigator assessments for overall hyperpigmentation, overall photodamage, and skin tone unevenness, as well as standardized digital photography and subject self-assessment questionnaires were conducted at all visits (baseline and weeks 4, 8, and 12). In vivo reflectance confocal microscopy (RCM) of a target lesion was conducted (in a subset of subjects) at baseline and week 12. Fourteen subjects completed the study. The treatment regimen provided statistically significant improvements in all efficacy parameters at weeks 8 and 12 (all P less than equal to 0.03, student's t-test). Standardized digital photography and RCM images support the improvements in overall hyperpigmentation observed by the investigator. At the end of treatment, the regimen was highly rated by subjects with 100% of subjects (strongly agree/agree) that the combination "decreased the appearance of uneven skin tone and discolorations" and "reduced the appearance of sun damage." In addition to this clinical study, independent case studies with this combination treatment regimen at a separate study site were also conducted with results that corroborate the formal clinical study findings. The comprehensive results from these studies suggest that the combination of a comprehensive pigmentation control serum with a series of 3 very superficial chemical peels may provide an effective treatment approach for hyperpigmentation in skin of color patients. *J Drugs Dermatol.* 2017;16(4):301-306 PMID:28403262