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Efficacy of a Daily Protective Moisturizer with High UVB and UVA Photoprotection in Decreasing Ultraviolet Damage: Evaluation by Reflectance Confocal Microscopy.

Gomes-Neto A, Aguilera P, Prieto L, Seité S, Moyal D, Carrera C, Malveyh J, Puig S. *Acta Derm Venereol.* 2017 Jun 29. doi: 10.2340/00015555-2736

ABSTRACT

Patients with photodermatoses or actinic keratoses benefit from very high ultraviolet B-ultraviolet A (UVB-UVA) photoprotection. However, poor compliance is an issue that jeopardizes adequate protection, leading to disease recurrence. This study evaluated the efficacy of a daily protective moisturizer with high UVB and UVA photoprotection applied 8 h before irradiation. A monocentric, open-label, prospective, control pilot study was performed including 10 patients. Patients were irradiated with UVB and UVA before and 8 h after topical application of the product. Reflectance confocal microscopy (RCM) assessment was performed 24 h later. Clinical assessment showed a statistically significant increase in minimal erythema dose (MED) after application of the product ($p < 0.001$). Signs of UV damage according to RCM were not observed on photoprotected skin ($p < 0.05$). Skin irradiated 8 h after applying a daily protective moisturizer presented an increase in MED and RCM findings that equal the findings for non-irradiated skin. PMID: 28661544 DOI: 10.2340/00015555-2736