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A Case of Verruca Plana treated with 585-nm Pulsed-Dye Laser

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Abstract

Verruca plana (VP) is a kind of benign epithelial neoplasms of the skin and mucosa resulting from human papillomavirus infection, which generally occurs in exposed parts. It is extremely common disease and conventional treatment consists of nonspecific tissue destruction including repeated application of topical medications, Cryotherapy, electrocautery, surgical excision, and the carbon dioxide (CO2) laser. Although extensively studied, the treatment poses a therapeutic challenge for physicians. A 65-year-old man was referred to the out-patient clinic complaining of itching, multiple, erythematous plaques on the left aspect of forehead which occurred 6 years ago. Various laser treatments were done several times, but the lesion worsened and spreaded. Also, he denied of frequent sun exposure. Skin biopsy was conducted, and histopathologic finding showed mild acanthosis with focal distinctive koilocytotic cells that patient was finally diagnosed with VP. Three times of treatment sessions with the pulsed dye laser (PDL) at 585 nm-7 mm-8.0~8.5J/cm2–2.0 ms–1.5 Hz were done, and the skin lesion much improved. Herein, we report a case of VP successfully treated with PDL therapy. Clinicians should consider PDL among the better established approaches in the treatment of VP. Pulsed dye lasers produce pulses of visible light at a wavelength of 585 or 595 nm with pulse durations of the order of 0.45–40 ms. Pulsed dye laser treatment can be combined with radiofrequency to enhance effects; lower PDL doses possible with the combination can reduce adverse effects.

Biography

Hyeon Jeong Park graduated School of Medicine, Chosun university medical department. she has worked as reident in Kangbuk samsung hospital, Sungkyunkwan University School of Medicine, Department of Dermatology since 2018

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