ABSTRACT BOOK ABSTRACTS



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PIGMENTATION

SUCCESSFUL COMBINATION THERAPY OF LOW-FLUENCE 1064 NM Q-SWITCHED NEODYMIUM-DOPED YTTRIUM ALUMINUM GARNET LASER AND 4% HYDROQUINONE CREAM FOR RIEHL'S MELANOSIS IN INDONESIAN PATIENT

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Background: Riehl melanosis is reticulate or diffuse hyperpigmentation disorder in the area of body affected by repetitive contact with allergens, mostly cosmetics. It has challenge in diagnosing and treating the disease due to resemblance with other hyperpigmentation disorders and unsatisfactory treatment. Particularly in Indonesian patients with darker skin type, excessive energy delivery of light or laser sources on Riehl's melanosis would overstimulate post-inflammatory hyperpigmentation. The aim of this report is to show the effectiveness of combination therapy with low-fluence Q-switched (QS) neodymium-doped yttrium aluminum garnet (Nd:YAG) laser and 4% hydroquinone cream for treating Riehl's melanosis in Indonesian patient.

Observation: A case of Riehl melanosis in a 29-year-old woman presented with grayishbrown reticulate hyperpigmentation on the face was reported. There was history of cosmetics application for six months before the onset of hyperpigmentation without preceded by signs of inflammation. The results of histopathological examination and Fontana-Masson staining supported the diagnosis of Riehl melanosis which revealed liquefactive basal cell degeneration, pigment incontinence, and lymphocyte infiltration. The patch test to identify the etiology showed positive result to standard allergens of 25% Balsam of Peru, 5% nickel sulphate, and the cosmetics has been used. She was treated with two sessions of low-fluence (1,5 J/cm2) 1064 nm QS Nd:YAG laser in four weeks intervals, 4% hydroquinone cream for two months, and sunscreen. Skin brightness enhancement was observed after the treatment and objectively measured with spectrophotometer. There was no post-inflammatory hyperpigmentation after treatment.

Key message: The combination of low-fluence 1064 nm QS Nd:YAG laser and 4% hydroquinone cream is effective and favorable option to treat Riehl's melanosis in











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Indonesian patient with no side effects.



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