



LASERS

COMBINED PICOSECOND ND:YAG 532/1064 NM AND Q-SWITCHED RUBY 694NM LASER FOR PIGMENTED LESIONS, SKIN REJUVENATION AND ACNE SCARS TREATMENTS ON ASIAN SKIN

P Peng⁽¹⁾

P-skin Professional Clinic, Dermatology And Laser Unit, Kaohsiung, Taiwan⁽¹⁾

Background: Pigmented lesions are one of the most concerning skin problems among Asians. Epidermal pigments, dermal pigments, melasma, and hyperpigmentation usually collectively appear on the patient's face, which makes laser treatment more difficult. In addition to pigmented lesion, acne is also one of the most common skin diseases. For Asians, acne scars and pigmentary sequelae can affect more than 50% of the population.

Objective: To evaluate the safety and clinical effectiveness of a combined picosecond Nd:YAG and Q-Switch Ruby lasers for the treatment of Pigmented Lesions, Skin Rejuvenation and Acne Scars on Asian skins.

Materials and Methods: A combined laser device able to emit pulses at 532/1064nm at 450ps and pulses at 694nm and 30ns has been used in fractional and full spot modes applying multiple passes until a specific end-points have been reached. The patients enrolled has been treated from 1 to several sessions at 3-6 weeks intervals depending on the kind of lesion. Pre and post treatment images were taken to evaluate the efficacy and the safety of the treatments.

Results: Most of patients treated for pigmented lesions achieved improvements from full resolution to moderate depending mostly on the kind of pigmentation. Side effects were low, few cases of PIH have been recorded.

All patients treated in Fractionated mode tolerated very well the procedure. Improvements of scars and skin texture were always recorded. MEND have been observed for few days after treatment. No side effect such as change of pigmentations or scarring have been recorded.

Conclusions: The combo picosecond Nd:YAG and Q-Switch Ruby laser can be used for epidermal and dermal pigmented lesions safely and successfully.

The Fractional picosecond treatment can induce new collagen formation and achieve





rejuvenation effect, which can be used to treat also acne scars with impressive safety levels.

