ABSTRACT BOOK ABSTRACTS



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LASERS

SINGLE-BLINDED, SPLIT-FACE STUDY FOR A COMPARATIVE EVALUATION ON THE EFFICACY AND SAFETY OF THE TREATMENT OF SOLAR LENTIGO BY THE PICOSECOND 532-NM ND:YAG LASER AND NANOSECOND Q-SWITCHED ND:YAG LASER

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Introduction: 532-nm wavelength of Q-switched (QS) neodymium:yttrium-aluminum-garnet (Nd:YAG) Laser is widely used for treatment of solar lentigo. Currently, there is no study for a comparative evaluation on the efficacy of the treatment of solar lentigo between the 532-nm wavelength of picosecond Nd:YAG laser and nanosecond Nd:YAG laser.

Objectives: The aim of this study is to compare the efficacy and safety of 532-nm wavelength of the picosecond Nd:YAG laser and nanosecond Nd:YAG laser in a split-face design.

Material and Methods: A split-faced, prospective study was designed. Patients with solar lentigo on face were recruited. Each facial area was randomly assigned with either the picosecond Nd:YAG laser and nanosecond Nd:YAG laser. Total 2 laser sessions were performed at 2-week intervals. Final evaluation was achieved 2-week later after the last laser session. Clinical outcome was assessed by the number of lentigo measured by dermatologist, and 5-point global assessment scale.

Results: A total of 22 subjects (21 females and 1 male) with Fitzpatrick skin types III to IV, mean age 49.5 years, were enrolled and 17 subjects finished the study. In 5-point global assessment for improvement, the average GAS of the Pico-arm was 4.29, whereas Nano-arm was 3.71. The average number of lentigo was decreased significantly from 24.3 to 18.0 (lesions more than 3mm, from 5.0 to 3.7) after laser treatment in Pico-arm (p<0.05) versus 24.2 to 18.0 (lesions more than 3mm, from 5.0 to 3.2) in Nano-arm (p<0.05). No serious adverse event occurred during the entire study.

Conclusions: Both 532nm-wavelength picosecond Nd:YAG and nanosecond Nd:YAG











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lasers could be an effective option for treatment of solar lentigo.

Keywords:Lentigo; Neodymium:yttrium-aluminum-garnet laser; picosecond



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