

Clinical Evaluation of a Picosecond Laser for the Treatment of Solar Lentigines

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Study Design:

- Prospective study to evaluate a 532 nm picosecond laser for solar lentigines on dorsal hands in 15 patients (12 patients completed, ST I-III).
- Each subject received 4 treatments to both hands spaced 4 weeks apart (± 2 weeks).
- Tx parameters were 2 mm spot at 0.64 J/cm² and pulse width of 550 picoseconds.

Results:

- Patients and physicians were satisfied with the treatment and the physician global aesthetic improvement was evaluated to be very much improved and as having optimal cosmetic result.
- Patients were extremely likely to recommend treatment to a friend or family member.
- Average pain score was 2/10 lasting 1 day following treatment with mild crusting lasting 8 days following treatment; swelling, itching, and blistering were absent.



Before



1 mos After 4 Txs

Courtesy of R. Geronemus, MD

Conclusion:

- The 532 nm picosecond laser is safe and effective in the treatment of solar lentigines in Fitzpatrick skin type I-III patients.

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