

Novel Approach to Melasma Using Two Simultaneous Methods of Picosecond Delivery

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Study Design:

- Study to evaluate a 755nm picosecond laser using flat optic and diffractive lens array for melasma management in 40 patients.
- Each subject received 6 treatments spaced 1 month apart with fluence according to skin type.
- Tx parameters were 1.0-1.5 J/cm² with the flat optic and 0.25-0.71 J/cm² with the diffractive lens array. Discreet pigmentation was treated with flat optic followed by Focus optic treatment over the entire face.

Results:

- 90% of patients had noticeable improvement, confirmed by blinded grading by expert physicians and multispectral image analysis.
- Only side effect was erythema that lasted a couple hours.
- 10% of patients noticed initial improvement but with recurrence to baseline with summer sun exposure.



Conclusion:

- Simultaneous combination of two methods of delivery of 755nm picosecond laser appears to be safe and effective for treatment of melasma, although patients must still be aware of the risks of sun exposure during summer sun.*

*PicoSure® is not FDA cleared to treat melasma

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