

A Randomized, Double-Blind, Study Evaluating a 755 nm Picosecond Pulsed Alexandrite Laser vs. a Non-Ablative 1550/1927 nm Fractionated Thulium Laser for the Treatment of Facial Photopigmentation and Aging

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Study Design:

- Randomized, double-blind study to evaluate the efficacy of the 755 nm picosecond laser with the 1927 nm fractionated laser for the treatment of facial photopigmentation.
- Each subject received 4 755 nm picosecond laser treatments, spaced 3 weeks apart, or 2 fractionated 1550/1927 nm laser treatments, spaced 6 weeks apart.

Results:

- Both laser treatment groups demonstrated similar improvement in the signs of photopigmentation and aging as assessed by blind investigators, clinical photography, and patient self-assessments. 755 nm Tx group generally had a higher quality result.
- It was noted the picosecond treatment group experienced significantly less treatment related pain, discomfort, and erythema. No adverse effects were reported.



Conclusion:

- Both the 755 nm picosecond laser and fractional 1550/1927 nm laser can be used safely and effectively to treat signs of photopigmentation and aging, but the picosecond laser provides a superior safety and patient satisfaction profile.

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