

# Clinical Study with a Picosecond Alexandrite Laser and a Diffractive Optic for Photo-Rejuvenation and Pigment Reduction in Skin Types II-IV During the Summer Months in a Sun Rich Environment

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## Study Design:

- Prospective study to evaluate 755nm picosecond laser with diffractive optic for photo-rejuvenation in 18 patients (ST II-IV).
- Each patient received 4 treatments with 1-month intervals.
- Treatment parameters: 6mm spot at 0.71 J/cm<sup>2</sup> for lighter skinned patients and 8mm spot at 0.40 J/cm<sup>2</sup> for darker skinned patients with average of 2000-2500 pulses per Tx.

## Results:

- 2 blinded evaluators graded images using a GAIS and were able to correctly identify the post-treatment image 74% of the time.
- In grading overall pigmentation and wrinkle improvement, 77% of patients showed noticeable improvement with 30.5% of them being Much or Very Much Improved.
- There were no adverse events and typical downtime was minimal, with an average of 3-6 hours of minor erythema.

Courtesy of Emil Tanghetti, MD



Before

After 6 Months, 4 Treatments

## Conclusion:

- The 755nm picosecond laser with diffractive lens can reliably treat and improve photodamage in a variety of skin types during the summer months with consistent improvement in fine lines, abnormal pigmentation, as well as tone and texture in a majority of patients.