

# Using Normal and High Pulse Coverage with Picosecond Laser Treatment of Wrinkles and Acne Scarring: Long Term Clinical Observations

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## Study Design:

- Split-face study to evaluate long term clinical effect of a 755 nm picosecond laser for acne scarring (2 subjects) and facial rejuvenation (4 subjects).
- Each subject received 5 Focus treatments with photographs 12 months post.
- Average of 3301 pulses ( $\pm 155$  - Normal pulses) on one half of face and 5867 pulses ( $\pm 500$  - High pulses) on the other half using 6 mm spot at  $0.57 \text{ J/cm}^2$  (550 picosecond pulse duration) delivered at 10 Hz and 50% overlap.

## Results:

- Previous results presented suggested that acne scar and wrinkle patients treated with the standard number of pulses have excellent clinical outcomes.
- Using a higher number of pulses does not lead to better clinical outcomes.
- One subject (ST IV) experienced mild transient post-inflammatory hyperpigmentation, but otherwise there was no increased incidence of side effects observed.



## Conclusion:

- When using the 755 nm picosecond laser with diffractive lens array, no more benefit can be obtained from a higher number of pulses.

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