

A 1064nm, 532nm, and 755nm Pico Laser System for the Treatment of Unwanted Tattoos

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Study Design:

- Prospective, single center study for the safety and efficacy of a multi-spectral, picosecond laser for the treatment of unwanted non-cosmetic tattoos.
- 44 subjects enrolled (total of 53 tattoos).
- Subjects had up to 10 treatments, administered every 6 weeks.
- Photographs at baseline, each Tx, and 2 months post final Tx.

Results:

- To date, 26 subjects (33 tattoos) completed all trial visits.
- 532nm: $\geq 75\%$ clearance of red, orange, yellow with average of 2.2 Txs.
- 1064nm: 82% of tattoos with ≥ 4 Txs reached $\geq 50\%$ improvement.
- 755nm: 85% of tattoos with ≥ 4 Txs reached $\geq 50\%$ improvement.



Conclusion:

- A picosecond 755nm, 532nm, 1064nm laser system is safe and effective at removing tattoos and may allow for more rapid ink removal in multicolored tattoos. 755nm is most efficient wavelength at clearing majority of colors including black and 532nm is most effective at clearing red, orange, and yellow ink. While 1064nm may have an advantage treating black ink in skin types V and VI, 1064nm and 755nm performed comparably on black ink in skin types I-IV.

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