Multi Center Evaluation for the Treatment of Cellulite Using a Minimally Invasive Laser with Side Firing Subdermal Fiber

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Abstract

Background: Historically, treatments for cellulite have either not been able to address all of its components, require multiple treatments or are temporary at best.

Objective: This study was conducted to evaluate the safety and efficacy of a single minimally invasive procedure, using a three step approach, to treat the underlying structure of cellulite using a 1440 nm Nd:YAG laser with a side firing fiber and temperature sensing cannula.

Methods: 57 subjects were consented and treated. Efficacy was measured by blinded evaluators based on a validated photographic scale comparing baseline photos to 2, 3 and 6 months post treatment as well as identifying baseline from post treatment photos at 3 and 6 months. Subject and physician satisfaction was assessed based on completion of a satisfaction survey at 2, 3 and 6 months post treatment. Adverse events were recorded throughout the study.

Results: At 6 months post treatment, blinded evaluators rated at least a 1 point level of improvement in 96% of treated sites for the appearance of cellulite (Figure 1). Blinded evaluators were also able to correctly identify baseline compared to post treatment photos in 95% of cases. At least 90% of subjects and physicians reported satisfaction with the results of treatment throughout 6 months. Events were mild in intensity and transient to treatment.

Figure 1. Pre and 6 months post treatment

Conclusions: A single, three step, minimally invasive laser treatment using a 1440-nm Nd:YAG laser, side firing fiber and temperature sensing cannula, to treat the underlying structure of cellulite, proves to be safe and maintains effectiveness at least 6 months post treatment.

References

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