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Independent evaluation of low-level laser therapy at 635 nm for non-invasive body contouring of the waist, hips, and thighs

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Abstract

Introduction: The non-invasive body-contouring segment continues to exhibit uninhibited growth, a trend that has provoked the emergence of numerous body-contouring devices. One particular device, low-level laser therapy at 635 nm (LLLT-635), has exhibited promising clinical results. We performed an independent, physician-led trial to evaluate the utility of LLLT-635 nm for non-invasive body contouring of the waist, hips, and thighs.

Methods: Eighty-six participants were retrospectively assessed at an individual clinic in the United States. A multi-head laser device was administered every-other-day for 2 weeks. Each treatment consisted of 20 minutes of anterior and posterior treatment. Patients received concurrent treatment of the waist, hips, and bilateral thighs. Circumferential measurements were evaluated at baseline and one week following the 2-week treatment administration phase.

Results: Compared with baseline, a statistically significant 2.99 in. (7.59 cm) mean loss was observed at the post-procedure evaluation point (P < 0.0001). When analyzed individually, the waist, hips, and thighs each reported a statistically significant reduction of -1.12, -0.769, and -1.17, respectively. Furthermore, linear regression analysis revealed a weak linear dependence (r = 0.179) between the reported weight and circumference change.

Conclusion: These data further validate the clinical efficacy and safety of LLLT at 635 nm.

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