

LASERS

EVALUATION OF A NOVEL 1064NM DIODE LASER FOR THE TREATMENT OF LOWER EXTREMITY LEG VEINS

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Introduction: Leg veins are a common cosmetic concern. Over 15 years, the 1064nm Nd:YAG laser has become the chosen laser therapy for leg veins. This longer wavelength reaches deeper and larger veins, and combined with improved cooling techniques, can successfully treat lower extremity leg veins.

The Vasculaze (InMode, Israel) is a novel 1064nm diode laser. It has a small (3x5 mm) spot size, effective cooling, uses high fluences (up to 300 J/cm2 given in a relatively short pulse to reach a power of up to 1 kW).

Objective: The objective is to evaluate the safety and efficacy of the novel 1064 nm diode laser for leg veins on the lower extremities.

Methods: 15 female subjects, aged 18-60, of skin types II-V, were recruited to this single center study. The treatment included 2 sessions 6 weeks apart and follow-up visits at 3 and 6 months. The results were evaluated by photographs and an investigator classification of the treated vascular lesions appearance.

Results: 15 subjects of average age 52.8 years, completed 2 treatment visits and the 3 months follow-up visit. Photos demonstrated improvement in vascular lesions. Vascular lesions classification was reduced by 1 score from baseline score of 2.9 to an average score 2 at 3 months. No significant or unexpected adverse events were detected.

Conclusions: This study demonstrated that the Vasculaze novel diode laser is safe and effective for the treatment of leg veins and spider veins at 3 months.





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