

INCREASED EFFICACY IN TREATMENT OF FACIAL TELANGIECTASIA AND ROSACEA UTILIZING STARLUX™ IPL TECHNOLOGY WITH VARIABLE PULSEWIDTH AND FLUENCE

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Background and Objectives:

Traditional IPL systems are limited in their ability to treat telangiectasia and rosacea by pre-determined treatment parameters. Starlux™ IPL is unique in offering a variable pulse width and fluence with integrated skin cooling. We used this novel technology for the treatment of facial telangiectases and rosacea to assess its efficacy, safety profile and long-term benefit.

Study Design/Materials and Methods:

Fifty patients with Fitzpatrick Skin type I-IV and facial telangiectasia or rosacea were treated with the Palomar Starlux™ IPL system. Treatments were performed monthly (average 2 treatments) using the LuxG handpiece, spectral range 500- 760nm and 870-1400nm, 34-40 J/cm², pulse width 20-30msec, 15x10mm spot size. Clinical evaluation and digital photography were performed at baseline, prior to each treatment and at 6-month follow-up.

Results:

All patients had improvement or clearance of telangiectasia and ruddiness. An average of 65% improvement was achieved with one single treatment, and over 90% with subsequent treatments. Side effects were mild, including transient erythema and mild edema. Localized bruising was observed in 3 patients lasting 3-4 days.

Conclusions:

The StarLux™ IPL technology with a combination of integrated skin cooling, high pulse energy and tunable pulse duration provides a safe and effective treatment of facial telangiectasia and rosacea with minimal downtime and long lasting results.