

THE EFFICACY OF A DUAL FILTER HANDPIECE (500–670nm AND 870–1200 nm) OF AN INTENSE PULSE LIGHT DEVICE FOR THE TREATMENT OF FACIAL TELANGIECTASIA.

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Background: The dual filter handpiece with wavelength 500–670nm and 870–1200 nm, pulse width 5–100ms and spot size 10 × 15mm can deliver energy up to 80 J/cm². The objective of the study is to assess the safety and efficacy of the MaxG handpiece for the treatment of facial telangiectasia.

Study: 10 subjects were recruited into the study. Up to 4 treatments with an interval of 4–6 weeks were given. Only areas with facial telangiectasia were treated and the parameter used was 34–40 mJ/cm², 10 ms. 25 treatment sessions have been carried out so far. At each visit, patient questionnaires were given for objective assessments and standardized clinical photographs were taken for 2 independent physicians' review.

Results: This is an ongoing study with 1 subject completing all treatment sessions. Preliminary results show that mild pain and erythema are common adverse effects that resolve spontaneously. At one week post-treatment, 1 out of 18 treatment sessions developed crusting at the nasal region and 7 out of 18 treatment sessions developed crusting at the cheeks. Hypopigmentation was noticed in 1 out of 18 treatment sessions and hyperpigmentation was noticed in 3 out of 18 treatment sessions at the cheeks. In terms of efficacy, statistically significant improvement was found after the second and third treatments. More comprehensive data is to be generated when all subjects complete the study.

Conclusion: Dual filter handpiece with wavelength 500–670nm and 870–1200nm seems to be effective for the treatment of facial telangiectasia. Mild cases of crusting were observed which may be overcome by adjusting the parameters used.