

# **TREATMENT OF MELASMA WITH THE STAR LUX™ 1540**

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## **OBJECTIVE:**

To determine the efficacy of the Star Lux™ 1540 in treating melasma, both short and long term.

## **STUDY DESIGN/MATERIALS/METHODS:**

Six patients with melasma on the face and/or neck were enrolled in the study. A pre-treatment evaluation of each patient was done in order to exclude patients with pre-existing conditions that may have interfered with the treatment. A baseline assessment with the Wood's light was done to classify the melasma as epidermal, dermal or mixed type. Pigmentation was also graded as to density, color intensity, and uniformity of distribution. At the first and subsequent treatment sessions, digital polarized and non-polarized photographs were taken. Non-polarized photographs were also taken immediately after each session. Treatments were performed using the 15mm handpiece with 50% overlap of each pulse, and four passes. Patients returned every 3 weeks for a total of 4 sessions. Patients were followed up with monthly photos and grading for 3 months after their fourth treatment session.

## **RESULTS:**

All patients tolerated the procedures with only occasional edema and erythema lasting 48-72 hours post-op. 2/6 patients complained of pain that required reduction of fluence to tolerance.

Pigmentation lightening was observed in all patients. All patients showed 40-50% lightening of their melasma pigment and the improvement was maintained at 3 months of follow-up.

## **CONCLUSIONS:**

This study demonstrates that the Star Lux™ 1540 is effective and safe for the treatment of epidermal and mixed epidermal/dermal pigmented lesions.