Treatment Of Facial Hypertrophic Capillary Malformations With Tumescent Assisted Sclerotherapy (tas)

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Facial capillary malformations (CMs) become hypertrophic and nodular overtime, especially CMs that involve the face. Hypertrophic facial CMs (HFCMs) remain a therapeutic challenge. Current treatment of choice for CMs is pulse dye laser (PDL) therapy but the treatment outcome is suboptimal in 40%-50% of patients with complete resolution in 10% of patients and recurrence rates of 35%. In hypertrophic CMs, the outcomes are even poorer. Here, we describe the novel technique and assess the efficacy of tumescent assisted sclerotherapy (TAS) in conjunction with yellow vascular laser (577nm) for the treatment of HFCMs.

Three patients underwent TAS were included in the case series.

Significant lightening in colour was achieved in two out of three patients with the use of yellow vascular laser. Complete resolution in nodularity was achieved in all patients with TAS. No significant complications such as skin necrosis, distal embolization, blindness, neurological adverse events occurred in any patients. Mild complications included scab formation at the site of injection in two patients which resolved within 14 days.

TAS is effective in reducing nodularity and hypertrophy of facial CMs. Yellow vascular laser, similar to other vascular lasers, is limited in achieving colour lightening of the lesions.