



DERMATOLOGICAL SURGERY

CUSTOMIZED PRESSURE BAND STRAPS FOR FOAM SCLEROTHERAPY PROCEDURE OF VARICOSE VEINS FOR TREATMENT OF STASIS ECZEMA & ULCERS – AN INNOVATION

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Background – Treatment of Varicose Veins and associated stasis eczemas & ulcers with Foam Sclerotherapy is a procedure with proven cost efficacy as compared to EVLT/EVRF. The procedure involves injection of foamed sclerosant solution into the Varicose Veins serially either from larger veins to smaller veins or the other way round.

Problem – Compression of the veins post introduction of the sclerosant into the lumen is required for atleast 4-5 minutes in order to achieve 1) maximum area of contact of sclerosant with the vessel wall & 2) formation of minimum amount of thrombus.

In patients who have extensive varicose veins– in the thigh, leg and foot area together, the area to be injected and subsequently compressed is high and requires atleast 3 – 4 assistants to apply and maintain pressure manually till the sclerosant effect takes place and thrombus forms.

Innovative Solution - In order to reduce the number of assistants that are required, customized pressure band straps were designed. These straps consist of 1) Padded material of various dimensions – varying according to the area of leg where it is to be applied, 2) Length adjustable Velcro-straps – which help in adjusting the pressure to be applied.

These straps are applied to each segment consecutively after completing the injection. This reduces the number of assistants required for the procedure to just 1 or 2

Summary – Sclerotherapy for extensive varicose veins ideally requires 4 -5 assistants to maintain pressure on the injected areas. The designed pressure band straps help in reducing the number of assistants required for the procedure.

