**Case Study**

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**Significant improvement of reflux and symptoms in a young woman following Varithena® treatment**

**Patient Characteristics**

- A 36-year-old mother presented to the clinic with ankle swelling, leg cramps, heaviness and tender varicose veins. She sought treatment years ago but was advised to postpone treatment until she had completed her family. The patient was classified as CEAP 4 upon examination.
- Duplex ultrasound assessment revealed reflux involving the right Great Saphenous Vein (GSV) from the Saphenofemoral Junction (SFJ) to the ankle. Peak vein diameter was 8.3 mm. Reflux (4.4 seconds) was present in the right common femoral vein (CFV). The deep venous system was patent.

**Treatment and Results**

- Varithena treatment was planned for the right GSV tributary that extended medially from the mid-thigh to the ankle.
- The patient was prepped, and the skin at the access site was anesthetized with 0.2 mL 1% lidocaine. Two access points were used: the tributary just above the ankle and at the knee. For both sites, a 21G micropuncture needle was inserted into the tributary followed by the passage of an 0.018 guidewire and a 4 French sheath. The patient was placed in Trendelenberg and 5 mL of Varithena was administered at each site for a total treatment volume of 10 mL.
- Following administration of Varithena, venospasm of the treated segments was documented. Ultrasound images were obtained to confirm that the deep system was patent and that the right common femoral vein and SFJ were compressible.

**Outcome**

- The patient returned post-treatment and indicated that her edema, heaviness, swelling, tiredness, and cramps had subsided in the treated leg. The brownish discoloration continued to fade and the skin returned to a natural pink color within six weeks.
- Due to similar problems in her left leg, and the effectiveness of the procedure, the patient has since undergone treatment in that leg with similar results.
INDICATIONS
Varithena® (polidocanol injectable foam) is indicated for the treatment of incompetent great saphenous veins, accessory saphenous veins and visible varicosities of the great saphenous vein (GSV) system above and below the knee. Varithena improves the symptoms of superficial venous incompetence and the appearance of visible varicosities.

IMPORTANT SAFETY INFORMATION
The use of Varithena is contraindicated in patients with known allergy to polidocanol and those with acute thromboembolic disease.

Severe allergic reactions have been reported following administration of liquid polidocanol, including anaphylactic reactions, some of them fatal. Observe patients for at least 10 minutes following injection and be prepared to treat anaphylaxis appropriately.

Intra-arterial injection or extravasation of polidocanol can cause severe necrosis, ischemia or gangrene. Patients with underlying arterial disease may be at increased risk for tissue ischemia. If intra-arterial injection of polidocanol occurs, consult a vascular surgeon immediately.

Varithena can cause venous thrombosis. Follow administration instructions closely and monitor for signs of venous thrombosis after treatment. Patients with reduced mobility, history of deep vein thrombosis or pulmonary embolism, or recent (within 3 months) major surgery, prolonged hospitalization, or pregnancy are at increased risk for developing thrombosis.

The most common adverse events observed were pain/discomfort in extremity, retained coagulum, injection site hematoma or pain, common femoral vein thrombus extension, superficial thrombophlebitis, and deep vein thrombosis.

Physicians administering Varithena must be experienced with venous procedures, possess a detailed working knowledge of the use of the duplex ultrasound in venous disease and be trained in the administration of Varithena.

See Full Prescribing Information for Varithena.