Advances in Microphlebectomy for the Treatment of Varicose Veins

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Disclosures

Speaker’s Bureau:
• Medtronic

Honorarium:
• Medtronic

Consultant:
• Medtronic
Pathophysiology of Venous Insufficiency

Healthy Vein Valves & Correct Blood Flow

Damaged Vein Valve & Incorrect Blood Flow
Ablation

• GSV
• AAGSV
• SSV
• Perforators
Mission not accomplished yet...
Remember who your boss is…

Not hospitals
Not insurance companies
Not organizations
YOUR PATIENT!
Adjunctive Therapy

• Tributaries of the ablated vessel still pose a problem whether symptomatic and or cosmetic
• Adjunctive therapy includes foam sclerotherapy and microphlebectomy
Varicose Veins Post Ablation

• Live with it if no further sx after ablation
• Painful varicose veins
• Removed for cosmetic purposes
Microphlebectomy

- Outpatient procedure involving no sedation and only local anesthetic / tumescent
- Objective is to micro-surgically remove varicose branches
- Important to emphasize to patient that these branches are not normal structures
- Procedure is usually 15 to 30 minutes and is completely ambulatory
- Chosen over other adjunctive treatments as a more definitive form of varicose vein elimination
Microphlebectomy

- Procedure involves identifying the vessel visually by the pt, the care provider and performing a scout u/s to assure no significant direct reflux from the deep.
- Vein is then mapped
- Sterile prep including sterile setup and drape
- Tumescent anesthesia directly under the skin with pump infiltration
The use of tumescent anesthesia offers the following major advantages:

• Decreased pain with injection
• Low toxicity (safe dose <35mg/kg)
• Pre-dissection of the vein from surrounding tissue
• Perioperative capillary compression effect for improved hemostasis and less postoperative bruising
• Pushing the vein to be removed closer to the skin
• Long-lasting anesthetic properties that reduce patient discomfort well into the postoperative day
Microphlebectomy

- Previously mapped vein (with sterile pen)
- Small microincisions of 1 to 2 mm in diameter are placed 2 to 3 cm from each other over mapped vein
- Small microhook is used to remove the varicose veins
Post op

- At the end of the operation, the leg is carefully cleansed with antiseptic solution.
- Bleeding easily controlled with compression.
- Steri-strips for incision closure
Mission not accomplished yet…
Thank you
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