

How to Ensure the Success of Traditional Surgery in Varicose Vein Treatment: 10 Rules to Respect

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NO DISCLOSURE TO DECLARE





The diagnosis and management of varicose veins Issued: July 2013

1. Offer Endothermal Ablation

2. If unsuitable offer UGFS

3. If unavailable offer Surgery



Traditional Surgical Treatment

High Ligation

Stripping

Homans J Surg Gynec Obstet 1916

Homans introduced the concept of flush high ligation.

Keller WL (1905) -Van der Stricht 1963 invagination stripping.

Mayo CH (1906) external stripping

Babcock WW (1907)





1. Careful echocolordoppler examination

New concepts on the value of the pre-terminal and terminal value of the Sapheno-Femoral Junction



2. Competent Terminal Valve

in 63.1% of cases (Zamboni et al. 2010 Br J Surg) in 45 % (Cappelli et al.2006 Int Angiol)

Why to treat it?

In these cases flush high ligation is not indicated



3. Incompetent Terminal Valve

Its preservation in the endovascular procedures doesn't mean recurrences!

Why to treat it?

Can we perform a less invasive surgical procedure?



4. High ligation: how to do it?

- Invagination of the saphenous stump
- Closure of the "fossa ovalis"
- perform it under local anesthesia

N. Frings Relacs Study Arch Dermatol 2012

> incidence of refluxing SFJ after EVLA at 2 years



5. <u>Reduce neovascularization</u>

a. Delicate surgical technique

b. Adequate technical choice



6. The saphenous trunk

Do we have to preserve it??

- a. Duplex Ultrasound elimination test (RET) + competent terminal valve (Zamboni 2010 Br J Surg)
- b. Diameter of the vein (*Pittaluga 2009 J Vasc Surg*)



7. The saphenous trunk

Do we have to treat it??

Treat only the refluxing segment of the saphenous trunk



8. Perform less invasive surgical procedures when indicated

-Phlebectomy – ASVAL -Tailored stripping with or without flush high ligation -Simplified high ligation -CHIVA



9. Choose the ideal setting to be competitive with the endovascular techniques

Outpatient setting

Tumescent local anaestesia

Proebstle et al. High ligation and stripping of the long saphenous vein using tumescent technique for local anesthesia Dermatol Surg 1998 24:149-53

Balducci et al. Ambulatory saphenectomy: 80 operated cases using tumescent anesthesia Chir Ital 2002; 54: 77-82

Sadick et al Combined high ligation and stab avulsion for varicose veins in an outpatient setting. Dermatol Surg 1998 ;24:475-9

Pittaluga et al Midterm results of the surgical treatment of varices by phlebectomy with conservation Of a refluxing trunk J Vasc Surg 2009;50: 107-18



10. Traditional Surgery still has good results Use it following modern concepts!

Rasmussen Randomized clinical trial comparing endovenous laser and stripping of the great saphenous vein J Vasc Surg 2013 ✓ Equal incidence of recurrence between surgery and EVLA

Van den Velden Five years results of a randomized clinical Trial of Conventional surgery, endovenous laser ablation and unltrasound-guided Sclerotherapy in patients with great saphenous variscose veins Br J Surg 2015 ✓Equal incidence of recurrence between surgery and EVLA; > UFGS

J. Brittenden A Randomized trial comparing treatments for varicose veins Class Trial NEJM 2014 ✓ Equal clinical results between Surgery, EVLA and UFGS

✓ Less efficacy in the ablation of the saphenous trunk for UFGS

I.Flesskamper Endovenous laser ablation with and without high ligation compared high ligation and stripping: results of a multicentre randomized controlled trial with up to six years follow- up Phlebology 2014 ✓ Equal results at 6 years



Conclusions

To be competitive surgery must:

Be guided by a very accurate pre-operative ecocolordoppler exam
Be less aggressive
At low cost
Be done on an ambulatory setting

Thanks for your attention

Patrizia Pavei

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