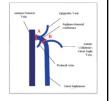




Introduction

· It has been established that in cases of great saphenous vein (GSV) reflux, the terminal valve is often continent. In the literature The frequency of sub-terminal or more distal trunk reflux was evaluated at around 50%.



Pitaluga et al, JOURNAL OF VASCULAR SURGERY.2008; Volume 47, Number 6: 1300-1303

Introduction

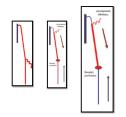
Reflux Distribution and Anatomical Location of the Great Saphenous Vein: Implications for Venous Disease Management n. M.D.¹. Jin Hyun Joh. M.D., Ph.D.² and Hyangkyoung Kim, M.D., Ph.D.³

GSV reflux in 450 patients were included in this study. The distal end of reflux was located below the knee segment in 290 (52.9%) limbs.

· Ann Phlebology 2023; 21(1): 33-36

Gold standard of varicose vein treatment

- GSV
- · GSV Stripping or ablation groin to knee
- HIFU Ablation for 20 CM



Introduction

- In EVLA, we usually ablate the GSV from groin to the knee.
- While in HIFU we only ablate 20 CM of the vein , and one year follow up didn't show difference in results regarding the recurrence





should we ablate a competen segment of the GSV?



 In treating GSV varicosity, we must standardize duplex study of venous reflux regarding the incompetent valve and extension of REFLUX and tailor ablation accordingly.



Patient & methods

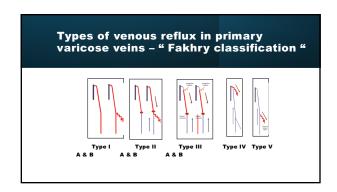
100 patients were admitted patients were admitted to the Royal vascular center, with Primary varicose veins, from 1st January – 31 st December 2022

All patients were subjected to

- Enforced medical consent
- Standing Duplex venous examination
- GSV Diameter measuring
- Extent of the venous reflux
- Categorization of venous reflux



Results • GSV Diameter: 0.6-1.2 CM & 8.06 + 0.7 CM • Reflux duration: 0.5 - 0.9 Sec. & 0.6+0.02 Sec



Types of venous reflux & treatment in primary varicose veins Reflux Pattern Type I – A Type I - B Terminal valve GSV to ankle Terminal valve GSV +trib. EVLA to below knee 5% 7% EVLA to below knee Terminal valve GSV to thigh Terminal valve GSV +trib. EVLA to mid thigh EVLA to mid thigh Type II- A Type II - B 22% 17% Type III - A Type III - B Preterminal valve GSV to thigh + perforator Preterminal valve GSV to ankle + perforator EVLA to mid thigh EVLA to mid thigh 16% 28% Type IV Isolated ASV Phlebectomy Type V Superficial veins Sclerotherapy

in primary varicose veins			
Туре	%	Reflux Pattern	Treatment
Type I – A Type I - B	5% 7 %	Terminal valve GSV to ankle Terminal valve GSV +trib.	EVLA to below kne
Type II- A Type II - B	22% 17%	Terminal valve GSV to thigh Terminal valve GSV +trib.	EVLA to mid thigh
Type III – A Type III - B	16% 28%	Preterminal valve GSV to thigh + perforator Preterminal valve GSV to ankle + perforator	EVLA to mid thigh
Type IV	1%	Isolated ASV	Phlebectomy
Type V	4%	Superficial veins	Sclerotherapy

