

DISCLOSURES

Consultant for Cook

Consultant for Bard

Consultant for Medtronic

Introduction

Historically, to treat the reflux of the SSV, 3 methods are proposed:

- High ligation and stripping (HL)
- EndoVenous Laser Treatment (EVLT)
- Ultrasound Guided Foam Sclerotherapy (UGFS)

Use of RadioFrequency Ablation (RFA) to treat reflux of SSV

Because of the risk of neurological burns, the RFA was not recommended

But the arrival of a new catheter (3 cm, Medtronic/Covidien) also allows the treatment of the reflux of SSV



Treatment of reflux in SSV is now possible but are the results equivalent at the results of treatment of the reflux in the GSV?

Litterature

Autor	year	Journal	legs	Туре	Follow up (month)	Success	DVT %	Paresthesiae %
Rassmussen	2013	JVS VLD	125 125 125 125	RFA Stripping EVLT UGFS	36 36 36 36	93 % 93 % 93 % 74%	<1 <1 <1 <1	6 % 7 % 6 % 1 %
Proebstle	2015	Br J Surg	295	RFA	6	95 %	1,2	4 %
Coleridge Smith	2007	EJVES	141	UGFS	11	82 %	1,7	1 %
Khontotmana ssis	2009	JVS	229 53	EVLT	6 36	98 % 90 %	2	5 %

RFA

RFA

24

32

(28-38)

96 %

98 %

6

0

2 %

2%

Monaham

Nicolini

2012

2016

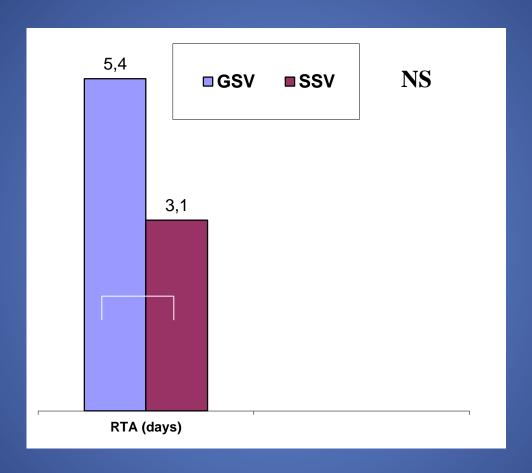
EJVES

submitted

27

99

PATIENT RECOVERY

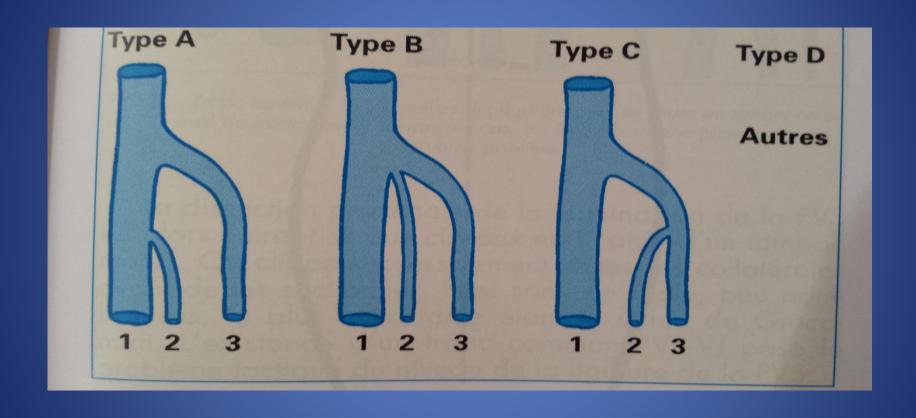


Special recommandations to use endovenous treatment in the treatment of reflux of SSV

- Prick in it at the third inferior level of the calf
- Position in 2 cm of sapheno-popliteal junction under echoguided control
- Well know the mode and the level of ending of SSV and the gastrocnemius veins
- Inject a large quantity of tumescence

TO AVOID Post operative thombosis and paresthesia

Anatomical type of the ending



Patients and methods

From 01/12 to 01/13, prospective non randomised study, follow up until 01/16

141 patients (162 Legs):

57 HL (63 legs)

84 RFA (99 legs)

No différence: gender, weight, age

100 % LWHM in the post operative course

Personal serie

The choice of the treatment was based about:

- the diameter: < 12 mm (RFA); > 12 mm (HL)
- the distance between the skin and the vein (before tumescence): > 5 mm (RFA); < 5 mm (HL)
- the mode of temination: Type A and D (RFA),
 type B an C (HL)

Follow up D 7, M6, Y1, Y2 and Y3

Clinical evaluation and duplex scan

- Deep venous thrombosis (DVT) or thrombosis of gastrocnemius veins
 - reopening
 - paresthesia
 - clinical and echographic recurrence

IMMEDIATE RESULTS

Mean Follow up: 32 months (28-38)

100 % primary success

No DVT

No skin burns, no matting

IMMEDIATE RESULTS PARESTHESIAE

HL: 3 (5.26 %) RFA: 4 (4.76 %) NS

M6: 2 (HL), 0 (RFA)

Y 1: 1 (HL), 0 (RFA)

Y 2: 0

IMMEDIATE RESULTS

Return to normal ativities

HL: 7 d (3-15) RFA: 2.7 d (1-10) p = 0.03

For bilateral procedure:

HL: 10.2 D (6-15) RFA: 3.1 j (1-10) p = 0,01

Quality of life (Aberdeen)

Significative difference at 7d no différence after

MIDDLE RESULTS

Mean Follow up

32 months (28-38): 88 % M24

85 % M36

M24: No recurrence (HL = RFA)

M36: 4 Recurrence (perforator of

popliteal fossa) 2 RFA 2 HL

CONCLUSIONS

Endovenous treatment is safe in the treatment of the reflux of the SSV

but it is necessary to respect specific precautions of realization.

The immediate and middle results are similar than the results in the treatment of the reflux of the GSV

Endovenous treatment can be thus proposed by first intention in the treatment of the reflux of SSV while waiting for the long-term follow-up.