

No disclosures



# NTNT Ablations Complications SVT • DVT



- Hyperpigmentation
- Embolization
- Hypersensitivity •
- Migraines





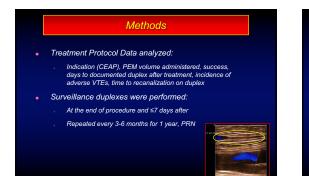






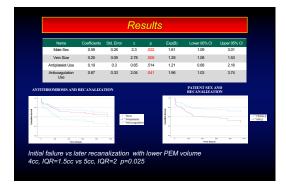
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Control         N         Control         N         <		Justifies planned procedures
Image:		Assures approval by insurance
		Determines preliminary feasibility
Instan - Da J an Jeffer - Jeff		Thermal vs NTNT saphenous ablation:
Constraint     C		Foam ablations
Increased Wr Net of the state to face and mean. Increased Wr Net of the state is a state to face a descent of the state o		Surgical vein Tx
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	Varithena <sup>®</sup> (1% PEM) experience (6 yea	ars)
	USA FDA Approved 2014 for GSV (off-label SSV) > 3100 cases . GSV leg – 1390 cases . Tributaries – 1000 cases . SSV – 537 cases . GSV thigh – 130 cases	
	. AASV– 63 cases . Perforators – 15 cases Symptomatic >3 mm, any depth, length, tortuosity, thrombi	E CARACTER CONTRACTER CONTRA
•	Caution with GSV and SSV (deep venous washout) Larger veins > 5 mm?	A A A A A A A A A A A A A A A A A A A



	Results			
Characteristics of the study c	ohort per ablation			
		Ab	ation Outcome	
Characteristic	All Ablations (n=597)	Closed (n=533)	Recanalized (n=63)	р
Age, Mean (SD), y	68 (14)	68 (14)	68 (12)	0.90
Sex				0.015
Male, n (%)	246 (41.3)	211 (35.4)	28 (4.7)	
Female, n (%)	350 (58.7)	322 (54)	35 (5.9)	
BMI, Median (IQR)	31 (8.4)	32.3 (8.2)	32.8 (10)	0.59
Treated Laterality				0.14
Right, n (%)	297 (49.6)	260 (43.6)	37 (6.2)	
Left, n (%)	299 (50.4)	273 (45.8)	26 (4.4)	

Characteristics of the study cohort per ablation				
		Ab	lation Outcome	
Characteristic	All Ablations (n=597)	Closed (n=533)	Recanalized (n=63)	р
Clinical Severity Score				0.79
2, n (%)	18 (3)	12 (2.5)	3 (0.5)	
3, n (%)	257 (44.5)	235 (39.5)	30 (5)	
4, n (%)	196 (33.4)	181 (30.4)	18 (3)	
5, n (%)	3 (0.5)	3 (0.5)	0 (0)	
6, n (%)	99 (18.6)	99 (16.6)	12(2)	
Vein Diameter, Mean (SD), mm 🍀	4.3 (1.2)	4.3 (1.2)	4.9 (1.3)	0.001
Truncal Vein Type				0.06
GSV, n (%)	554 (93)	499 (83.7)	55 (9.2)	
SSV, n (%)	42 (7)	34 (5.7)	8 (1.3)	
Microfoam Volume, Mean (SD), cc Antithrombotic Medication	4.3 (1.1)	4.3 (1.1)	4.6 (1.4)	0.24
None, n (%)	287 (48.2)	265 (44.4)	22 (3.7)	
Anticoagulation, n (%)	95 (15.9)	79 (13.3)	16 (2.7)	0.03
Antiplatelet, n (%)	214 (35.9)	189 (31.7)	25 (4.2)	0.51



### Quest to improve PEM use experience

- Procedures variety, time, comfort
- Veins size (too large?)
  PEM volume (cost)
- Obliteration rate
- VTE incidence



# Proximal Tumescence Use

- 186 patients (66 M / 120 F) 12 months
- 294 cases / 248 LE by 2 Operators (EA and NM)
- 200 BK GS
- ۶ 71 SS
- . 23 AK GS

#### Outcomes Examined

Use of Proximal Tumescence (as binary value)





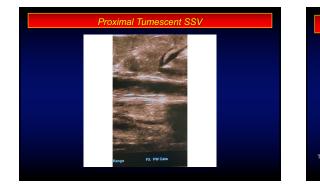
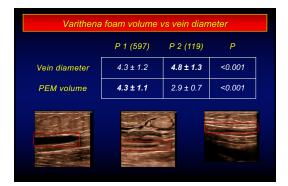


Table 1. Characteristics of study	cohorts per al			
	All	Ablation Type		
Characteristic	Ablations (n=294)	Non-Tumescent (n=175)	Tumescent (n=119)	р
Age, Mean (SD), v	68.3 (14)	67.7 (13.2)	69.1 (15.2)	0.39
Sex				0.07
Male, n (%)	103 (35)	54 (30.9)	49 (41.2)	
Female, n (%)	191 (65)	121 (69.1)	70 (58.8)	
Treated Laterality				0.28
Right, n (%)	132 (44.9)	74 (10.3)	58 (48.7)	
Left, n (%)	162 (55.1)	101 (57.7)	61 (51.3)	
Clinical Severity Score				0.34
2, n (%)	7 (2.4)	6 (3.4)	1 (0.9)	
3, n (%)	89 (30.3)	56 (32)	33 (27.7)	
4, n (%)	134 (45.6)		54 (45.4)	
5, n (%)	8 (2.7)	5 (2.9)	3 (2.5)	
6, n (%)	56 (19)	28 (16)	28 (23.5)	
Vein Diameter, Mean (SD), mm	4.3 (1.1)	4 (0.87)	4.8 (1.3)	< 0.001
PEM Volume, Mean (SD), cc	2.8 (0.6)	2.8 (0.6)	2.9 (0.7)	0.09
Incidence of VTE, n (%)	15 (5.1)	9 (5.1)	6 (5)	0.97
Vein Closed, n (%)	271 (92.2)	164 (93.7)	107 (89.9)	0.23



## Conclusion

- PEM ablation failures for saphenous veins are associated with ↑ vein D, male, AC, ↓ PEM volume
- Proximal vein compression with tumescent helps improve results for larger veins while using lower PEM volume

