Is Varithena

Endovenous Ablation or Physician Compounded Foam The Answer

VEITH SYMPOSIUM 2024 EDWARD G MACKAY MD No Disclosures

Forgot to ask what the question was



Varithena is more than just foam

▶ It's a canister that makes a very consistent foam

- ▶ It's a procedure
- It's aimed primarily at axial veins and their tributaries
- ▶ In its current form it is only one concentration











Summary of <u>Peer-re</u> publications	<u>viewed</u>		
Publication	Findings		
King et al. Eur J Vasc Endovasc Surg 50(6): 784-793, 2015	VANISH-1 Study: 8-week outcome data Improvement in PROs/VVSymQ		
Todd et al. Phlebology 29(9): 608-618, 2014	VANISH-2 Study: 8-week outcome data Improvement in PROs/VVSymQ		
Todd et al. J Vasc Surg Venous Lymphat Disord 3(3): 258-264, 2015	VANISH-2 Study: 1 Year Durability Continued improvement in PROs/VVSymQ		
Carugo et al. J Mater Sci Mater Med 26(11): 258, 2015	Review of ideal foam properties to optimize ablation		
Carugo et al. Phlebology 31(4): 283-295, 2016	Varithena [®] properties (cohesiveness, vein wall contact, dwell time) are superior to compounded foam		
Vasquez et al. Phlebology 32: 272-281, 2017	Improved outcomes when Varithena is combined with thermal ablation		
Gibson et al. Phlebology 32: 185-193, 2017.	Improved symptoms and appearance		
Regan et al. J Vasc Surg 53:131-138, 2011	Use of Iow nitrogen microfoam in patients with known PFO is safe		

The official definition of PCF

- ŠŠŠŠŠŠŠŠŠ
- A sclerosant mixed with a gas
 - Any toamable scie
- Any go
- Any rano
- Any meine
- ▶ Volume?

Physician Compounded Foam is...

- ▶ Safe
- ► Decades of Data
- ▶ Proven benefits in patients with C1 C6 Disease
- Easy to use
- ► Cost-Effective

Patients are just as happy with Foam

Measure	Laser Group (N=210)	Foam Group (N=286)	Surgery Group (N=289)	Surgery vs. Foam?	Surgery vs. Laser:	Laser vs. Foam§	
		score			effect size (95% CI)		
AVVQ							
Baseline	17.8±9.1	17.6±9.9	18.2±9.1				
6 Mo after treatment	7.9±8.4	9.1±7.9	7.8±7.5	-1.7 (-3.0 to -0.5)	-0.6 (-2.2 to 0.9)	-1.1 (-2.6 to 0.4)	
EQ-5D++							
Baseline	0.792±0.168	0.803±0.177	0.784±0.175				
6 Mo after treatment	0.903±0.171	0.895±0.174	0.881±0.202	0.005 (-0.025 to 0.035)	-0.015 (-0.051 to 0.021)	0.025 (-0.010 to 0.059)	
SF-36 physical component ++							
Baseline	48.6±7.8	48.9±8.0	48.2±8.6				
6 Mo after treatment	52.6±7.3	52.3±8.5	52.4±8.9	1.0 (-0.2 to 2.3)	0.1 (-1.4 to 1.6)	0.7 (-0.8 to 2.1)	
SF-36 mental component ††							
Baseline	51.9±9.0	52.4±8.7	51.2+9.4				
6 Mo after treatment	53.5±7.7	52.2±9.1	52.1±8.6	0.2 (-1.1 to 1.6)	-1.3 (-2.9 to 0.2)	1.5 (0.0 to 3.1)±±	



Proven benefits in Patients with C1 - C6 disease Ulcer Healing in Compression-only Group Author Jicer Healing in Sclerotherapy + O'Hare et al. 2010 17/20 (85%) 12/13 (92%) (ns) Pre-Sclerotherapy Rojas et al. 2009 28/33 (85%) (p=0.06) 23/37 (62%) 72/72 (100%) 46/46 (100%) (ns) Galimberti et al. 1988 Galimberti et al. Recurrence: 21/72 1988 (29%) 0/46 (0%) (p<0.01) Post-Sclerotherapy (8n 10)

List of all the randomized double blinded studies comparing PEM to PCF



Costs

- ▶ STS 1% 10 cc's \$289
- ▶ PDL 1% 10 cc's \$128
- ▶ PEM is a lot

Reimbursement

- ▶ 36470 single vein sclerotherapy \$115.17
- ▶ 36471 multi vein sclerotherapy \$192.49
- ▶ 76942 ultrasound guidance \$48.01
- ▶ 36465 single vein PEM \$1208.68
- ▶ 36466 multi vein PEM \$1258.03

One big difference

► FDA has approved Varithena®

When to use PEM vs PCF

- PEM is used when 1% PDL foam is the appropriate concentration and when it can be reimbursed ______
- ▶ PCF for all other circumstances

Conclusions

- ▶ PEM is well defined
- ▶ PCF is more nebulous
- ▶ Plenty of data to support PCF and PEM
- Advantage goes to PEM with a more well defined product and better reimbursement