



CONTROVERSES ET ACTUALITES EN CHIRURGIE VASCULAIRE

**CONTROVERSIES & UPDATES IN VASCULAR SURGERY**

**JANUARY 23-25 2020**



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Treatment by glue of recurrent varicose veins  
and incompetent perforator veins by direct  
puncture

Dr Nicolas NEAUME – Clinique Pasteur Toulouse



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## **Disclosure**

Speaker name : Nicolas NEAUME.

I have the following potential conflicts of interest to report:

Medtronic, Urgo, Kreussler

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Original Article

## Cyanoacrylate adhesive perforator embolization (CAPE) of incompetent perforating veins of the leg, a feasibility study

Irwin M Toonder<sup>1</sup>, Yee Lai Lam<sup>1</sup>, James Lawson<sup>2</sup> and Cees HA Wittens<sup>1,3</sup>

## Phlebology

Phlebology  
2014, Vol. 29(1S) 49-54  
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DOI: 10.1177/0268355514529696  
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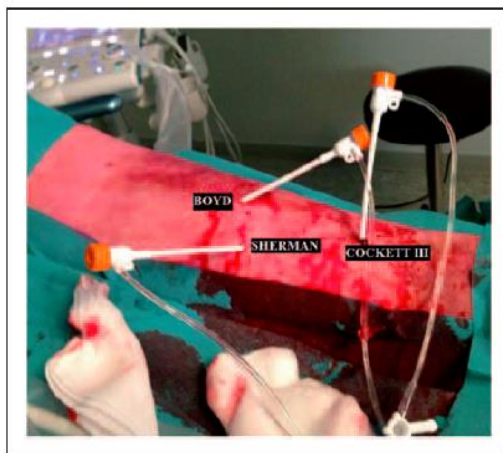


Figure 1. Access of more than one IPV using 7F introducer sheaths.

**Table 1.** Distribution of treated perforating veins and results of CAPE.

IPV type and location	Number	CAPE occlusion	CAPE Failure
Posterior tibial			
Cockett II	3	2	1
Cockett III	10	7	3
Paratibial			
Boyd	3	2	1
Sherman	2	1	1
Mid thigh			
Dodd	1	1	
Hunter	3	3	
Popliteal fossa			
	9	7	2
Medial Gastrocnemius			
Gillot	2	2	
Total	33	25 (76%)	8 (24%)

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**Table 2.** Experience of multiple authors using different treatment methods on incompetent perforators.

Author	Treatment used	Time of follow-up	Perforator occlusion rate (%)
Toonder et al. <sup>10</sup>	Cyanoacrylate glue (Sapheon)	3 months	76
Bacon et al. <sup>32</sup>	Radiofrequency ablation	5 years	81
Marsh et al. <sup>33</sup>	Radiofrequency ablation	1 year	72.3 (recurrent varicose veins) 87 (primary varicose veins)
Van den Bos et al. <sup>34</sup>	Radiofrequency ablation	3 months	64
Hingorani et al. <sup>35</sup>	Radiofrequency ablation	1 month	88
Hissink et al. <sup>36</sup>	Laser ablation (810 nm)	3 months	78
Boersma et al. <sup>37</sup>	Laser ablation (810 nm)	6 weeks	63
Boersma et al. <sup>37</sup>	Laser ablation (1470 nm)	6 weeks	45
Shi et al. <sup>38</sup>	Laser ablation	1 year	81.3
Seren et al. <sup>8</sup>	Combined laser ablation and compression therapy	1 year	91.3
Kiguchi et al. <sup>39</sup>	Sclerotherapy	6 weeks	54
Masuda et al. <sup>40</sup>	Sclerotherapy	20.1 months	75
Present study	Combination adhesive embolization – sclerotherapy	6 months	100

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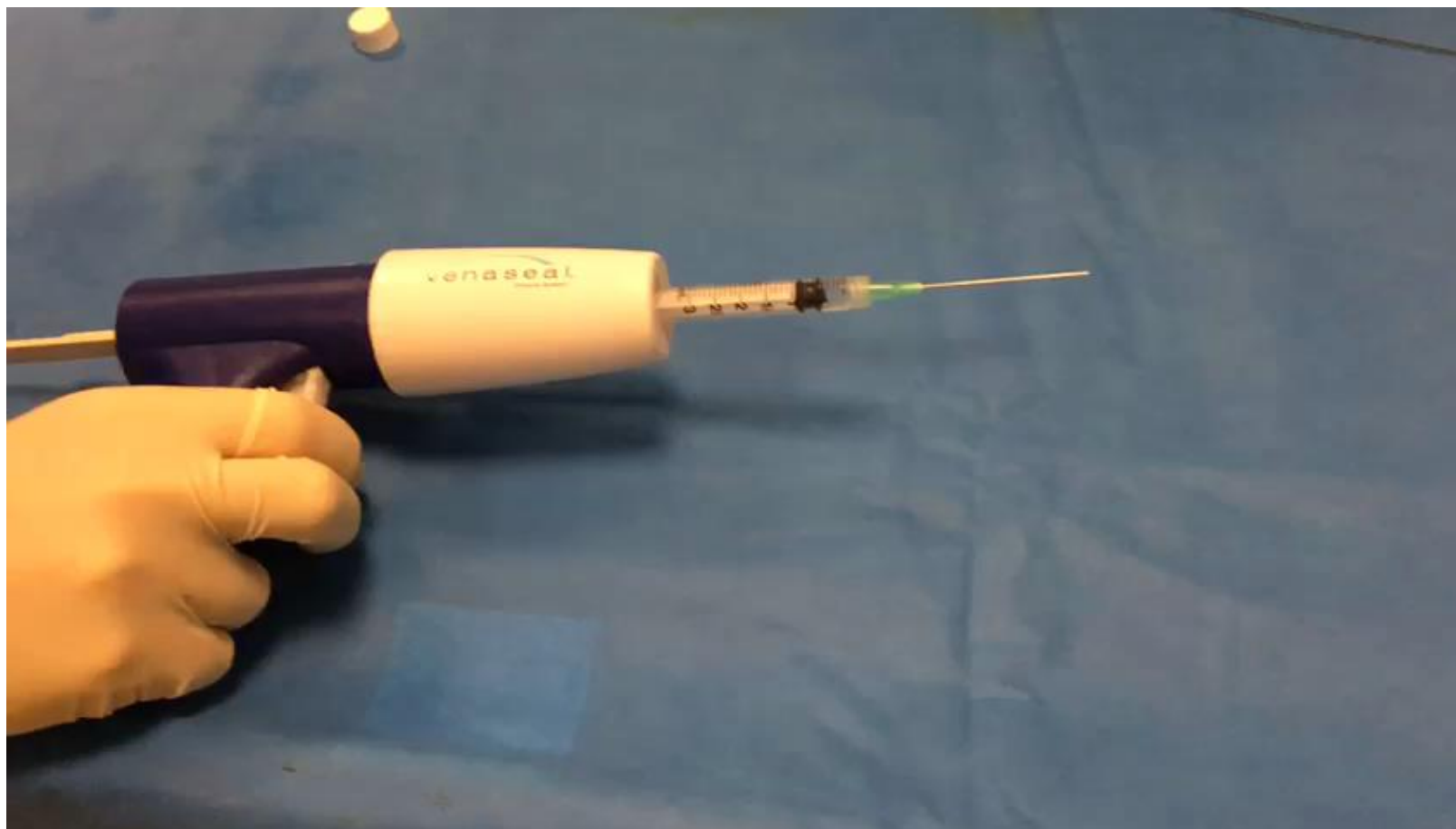
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ULTRASOUND GUIDED GLUE THERAPY



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AND SO WHAT ?