Table VI. Open Surgery or EVLA with various phlebectomy procedures 6 articles, 6 RCTs

Operative procedure	Reference	Summary
Open surgery with various types of tributary phlebectomy	Aremu M, Mahendran B, Butcher W, Khan Z, Colgan MP, Moore J et al. Prospective randomized controlled trial: conventional <i>versus</i> powered phlebectomy. <i>J Vasc Surg</i> . 2004;39:88-94	Monocenter study 141 patients and 188 lower extremities presenting GSV or/and SSV incompetence. No deep vein anomaly. CEAP class 2-3 General anesthesia Group I (n=100): OS with tributary stab avulsion versus Group II (n=88): OS with tributary avulsion using Trivex Results at 2 to 52 weeks of follow-up: Fewer incisions in group II compared with group I. P<0.0001 No difference between groups in terms of operative time. P = 0.16 No difference between groups in terms of
		patient satisfaction and cosmetic result
	Scavée V, Lesceu O, Theys S	Multi-center study
	et al. Hook phlebectomy	80 patients presenting VV with GSV
	versus transilluminated	reflux.
	powered phlebectomy for	Exclusion criteria; SSV reflux, previous
	varicose veins surgery. Early	surgery on the same venous territory and

results. Eur J Vasc Endovasc	previous DVT
Surg. 2003;25: 473-5.	CEAP class 2-6
	General or spinal anesthesia
	Group I (n=40): OS with tributary stab
	avulsion
	versus
	Group II (n=40): OS with tributary avulsion
	using Trivex [®]
	Results at 6 weeks of follow-up:
	Fewer incisions in group II (Trivex [®]) compared with group I. P<0.0001
	More bruising in group II (Trivex [®])
	compared with group I. P=0.06
	No difference between groups in
	terms of postoperative pain, number
	of complications, residual varices,
	cosmetic result
Ray-Chaudury SB, Huq Z,	Monocenter study
Souter RG, McWhinnie D. A	30 patients (40 LL) presenting
randomized controlled trial	VV in GSV or/and SSV territory
comparing transilluminated	Exclusion criteria: previous surgery on
powered phlebectomy with	the same venous territory and deep
hook avulsions: an adjunct to	venous incompetence.
day surgery. <i>The Journal of</i>	CEAP clinical class C 2-C3
One Day Surgery	Group I (n= 19): OS with tributary stab avulsion
2003;13:24-7.	versus
	Group II (n=:21): OS with tributary avulsion
	using Trivex [®]
	Post-operative results:
	No difference in terms of postoperative
	pain

Chetter I C, Mylankal K J, Hughes H, Fitridge R. Randomized clinical trial comparing multiple stab incision phlebectomy and transilluminated powered phlebectomy for varicose veins. <i>Br J Surg</i> . 2006;93:169-74.	Multi-center study 62 patients with primary symptomatic VV in GSV territory Exclusion criteria: previous surgery on the same venous territory, SSV incompetence, deep venous anomaly No CEAP class information Group I (n=33): OS with multiple stab incision phlebectomy versus Group II (n=29): OS with transilluminated powered phlebectomy Post-operative results: No difference in terms of surgery duration Less incisions in group II compared with group I
Krasznai AG, Sigterman TA, Willems CE, Dekkers P, Snoeijs MGJ, Wittens CHA et al. Prospective study of a single treatment strategy for local tumescent anesthesia in Muller phlebectomy. <i>Ann Vasc Surg</i> . 2014. DOI10.1016/j.avsg10 .028	. More skin bruising and pain in group II compared with group I Multi-center study 101 patients with GSV or/and SSV incompetence. CEAP classification; C3-4, Ep, As, P r 2-4 All patients scheduled for ambulatory Muller phlebectomy under LA Group I: anesthetic solution Lidocaine 1%+ epinephrine in sodium bicarbonate 1.4% versus Group II: anesthetic solution Lidocaine 1%+ epinephrine in saline 0.9% standard solution. Post-operative results:

Open surgery with different tributary phlebectomy procedures using UGFS Sodium tetra-decyl sulphate Versus Polidocanol	Kushwaha JK, Anand A, Sonkar A A, Gupta R. A study to compare outcomes of Sodium tetra-decyl sulphate and Polidocanol in the treatment of varicosities due to incompetent tributaries of superficial vein of leg: a randomized controlled trial. Int Surgery Journal 2018; 5:3315- 19	Significantly less pain during injection in group I compared with group II. P < 0.01 No significant difference between groups in terms of per operative and postoperative pain Monocenter study. 56 symptomatic patients presenting with GSV or/and SSV incompetence were treated by open surgery or EVLA. Incompetent tributaries were treated later by UGFS using STD or POL. CEAP clinical classification C2-C6 Exclusion criteria DVT, congenital or secondary varices Group I: STD (n=26) Group II: POL (n=30) Results Lost to follow-up 6 in each group Post procedure complications. There was no significant difference between the 2 groups in terms of skin necrosis. Conversely Pain and hyperpigmentation were lesser in group II compared to group I. P=0.01 Outcome at 4 weeks Pain was lesser in group II. P=0.01
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Abbreviations:

EVLA = endovenous laser ablation; GSV: Great Saphenous Vein; EVLA=endovenous laser ablation LA= local anesthesia; LL=lower limb; OS= Open surgery: High ligation + Saphenous stripping+/- Perforator ligation +/-tributary phlebectomy; ; POL=Polidocanol; STD= sodium tetra-decyl sulphate SSV= small saphenous vein; VV=varicose veins.