Table XII . EVLA Variants27 Articles, 24 RCTsReference underlined in color means same RCT

Operative procedure	Reference	Summary
EVLA with different wavelengths	Kabnick LS, Outcome of different endovenous laser wavelengths for great saphenous vein ablation. <i>J Vasc Surg</i> . 2006;43:88-93.	Monocenter study Primary incompetence of GSV in 51 patients. No data on SSV deep vein and CEAP clinical class Group I (n=30 lower limbs): 810-nm diode laser <i>versus</i> Group II (n=30 lower limbs): 980 nm diode laser, both bare fiber, continuous withdrawal, tumescent anesthesia Results at 4 weeks of follow-up : Both laser wavelengths were effective in treating GSV insufficiency, with no major complications and a paucity of adverse outcomes
HL+ EVLA <i>versus</i> EVLA without HL	Disselhoff BC, der Kinderen DJ, Kelder JC, Moll FL. Randomized clinical trial comparing endovenous laser ablation of the great saphenous vein with and without ligation of the saphenofemoral junction: 2-year results. <i>Eur J Vasc</i> <i>Endovasc Surg</i> . 2008;36:713-18.	Muti-center study Bilateral GSV primary incompetence in 43 patients (86 lower limbs). No data on SSV, absence of deep vein anomaly, CEAP clinical class C2 Group I (n=43) HL+ EVLA on one lower limb <i>versus</i> Group II (n=43) EVLA without HL on the other lower limb 810-nm diode laser, bare fiber, continuous laser withdrawal Anesthesia: general (day case procedure) or local (outpatient procedure) Results at 2 years of follow-up: No difference between groups in terms of groin recurrence and VCSS improvement

EVLA GSV ablation AK	Theivacumar NS,	Monocenter study
versus GSV ablation	Dellagrammmaticas D, Mavor AID,	68 lower limbs with GSV primary incompetence with SFJ incompetence
AK+BK	Gough MJ. Endovenous laser	No SSV reflux, no data on deep vein
	ablation: does standard above-knee	CEAP clinical classification C2-C6
	great saphenous vein ablation	All patients were treated by EVLA, 810-nm diode laser, bare fiber,
	provide optimum results in patients	stepwise laser withdrawal AK and BK GSV reflux and BK VV and
	with above-and below-knee reflux.	randomized in 3 groups
	A randomized controlled trial. J	Group I (n=23): AK-EVLA
	Vasc Surg. 2008;48:173-8.	versus
		Group II (n=23): AK+BK EVLA
		versus
		Group III (n=22): AK-EVLA+BK FS
		Local tumescent anesthesia for all groups
		Results at 6 weeks of follow-up
		. AVVSS: improved similarly in the 3 groups.
		. Complementary sclerotherapy:
		Group I:61%; group II:17%; group III:36%
		BK-EVLA was not associated with saphenous nerve injury.
EVLA with postoperative	Lugli.M, Cogo A, Guerzoni S, Petti	Monocenter study
compression eccentric or	A, Maleti O. Effects of eccentric	200 consecutive patients were treated by EVLA ablation for primary
not in complement of	compression by a crossed-tape	GSV insufficiency.
stocking	technique after endovenous laser	No data on SSV and deep vein. CEAP clinical class C2-C6
C C	ablation of the great saphenous	Baseline characteristics similar for both groups
	vein: a randomized study.	They were randomized to receive (group A: 100) or not (group B: 100)
	Phlebology. 2009;4:151-156. PMID:	an eccentric compression applied in the medial aspect of the thigh after
	19620697	EVLA procedure on the GSV without complementary phlebectomy.
		A 35-mmHg elastic stocking was applied to all treated limbs of both
		groups.
		Patients were assessed for a seven-day examination to identify the
		level
		of pain experienced by using a visual analogue scale (0 to 10).
		Results

		The intensity of postoperative pain was significantly reduced in the eccentric compression group as compared with the non-compression one. P < 0.001
EVLA with and without nitroglycerin	Hogue RS, Schul MW, Dando CF, Erdman BE. The effect of nitroglycerin ointment on great saphenous vein targeted venous access size diameter with endovenous laser treatment. <i>Phlebology</i> . 2008;23:222-26.	Multi-center study GSV primary incompetence. No data on SSV deep vein and CEAP clinical class. No previous surgery on GSV 75 patients treated by EVLA. Group I (n= 26): treadmill ambulation only Group II (n= 27): treadmill nitroglycerin (NTG) ointment Group III (n= 22): treadmill NTG ointment + treadmill ambulation GSV diameter measurement at vein access before treatment: Group I diameter increase: +2.7%. P=NS Group II diameter increase: +51.7%. P<0.0001 Group III diameter increase +69%. P<0.0001 Conclusion: pretreatment with topically applied NTG ointment (2%) produced a statistically significant venous dilatation easing targeted venous access
EVLA 980 nm bare- tip fibre <i>versus</i> EVLA 1470 nm radial fibre	Doganci S, Demirkilic U. Comparison of 980 nm Laser and Bare-tip fibre with1470 nm Laser and radial Fibre in the treatment of great Saphenous vein varicosities: A prospective randomized controlled trial. <i>Eur J Vasc</i> <i>Endovasc Surg 2010;40:254-59</i>	Monocenter study GSV primary incompetence in sixty patients (106 lower limbs) without SSV incompetence or deep vein anomaly. CEAP clinical class C2-C4 Intravenous sedation Group I (n= 30): EVLA 980 nm bare tip fibre + tributary phlebectomy <i>versus</i> Group II I (n= 30): EVLA 1470 nm radial fibre + tributary phlebectomy Results at 1-6 months of follow-up: Less post-operative pain (P<0.05) and better VCSS scores in group II compared with group I.
EVLA 1470nm warm <i>versus</i> cold tumescence anesthesia	Pannier F, Rabe E, Maurins U. 1470 nm diode laser for endovenous ablation (EVLA) of incompetent saphenous veins – a prospective randomized pilot study	Multi-center study GSV primary incompetence in 85 lower limbs. No data on SSV. No deep vein thrombosis. CEAP clinical class C2-C6 Group I (n=42): warm tumescence anesthesia = 37 C° versus

	comparing warm and cold tumescence anesthesia. <i>Vasa</i> . 2010;39:249-55.	Group II (n=43): cold tumescence anesthesia = 5 C° Results at 1 month of follow-up: No difference between groups in terms of occlusion Postoperative pain reduction in group II Significant reduction of analgesic intake in group II
	Dumantepe M, Uyar I. Comparing cold and warm tumescent anesthesia for pain perception during and after the endovenous ablation procedure with 1470nm diode laser. <i>Phlebology</i> . 2015;30:45- 51.	Multi-center study GSV primary incompetence in 101 patients. No data on SSV and deep vein. CEAP clinical class C2-C6 Group I (n=51): warm tumescence anesthesia = 24 C° <i>versus</i> Group II (n=50): cold tumescence anesthesia = 8 C° Results at 1 week of follow-up: No difference between groups in terms of occlusion (100%) Pain intensity on VAS: 3 in group I and 1 in group II Significant reduction of analgesic intake in group II. P<0.05 Significant reduction of side effects in group II. P<0.001
EVLA 980 nm <i>versus</i> EVLA 1500nm	Vuylsteke M, De Bo H,Dompe G, Di Crisci D, Abbad, CM, Mordon S. Endovenous laser treatment: is there a clinical difference between using a1500 nm and a 980 nm diode laser ? A multicenter randomised clinical trial. <i>Intern</i> <i>Angiology</i> 2011;30:327-34.	Multi-center study GSV primary incompetence in 180 lower limbs. without SSV incompetence or deep vein anomaly. CEAP clinical class C2-C6 Local tumescent anesthesia Group I (n= 90): EVLA 980 nm bare tip fibre <i>versus</i> Group II (n= 90): EVLA 1500 nm bare tip fibre Analyzed; group I n=88; group II n=87 Post-operative results: • Less induration in group II (1500 nm) compared with group I. P=0.0002 • Less analgesics intake in group II (1500 nm) compared with group I • Better HRQoL (CIVIQ) in group II (1500 nm) compared with group I.P=0.018 Results at 6 months of follow-up:

		No difference between groups in terms of occlusion
HL+ EVLA <i>versus</i> EVLA without HL	Disselhoff BC, der Kinderen DJ, Kelder JC, Moll FL. Five-year results of a randomised clinical trial of endovenous laser ablation of the great saphenous vein with and without ligation of the saphenofemoral junction. <i>Eur J</i> <i>Vasc Endovasc Surg</i> . 2011;41;685- 90.	Multi-center study Bilateral GSV primary incompetence in 43 patients (86 lower limbs). No data on SSV, absence of deep vein anomaly, CEAP clinical class C2 Group I (n=43) HL+EVLA on one lower limb <i>versus</i> Group II (n=43) EVLA without HL on the other lower limb 810-nm diode laser, bare fiber, continuous laser withdrawal used in both groups Anesthesia: general (day case procedure) or local (outpatient procedure) Results at 5 years of follow-up: . Groin recurrence: 65%in group I, 79%in group II. P=0.36 . Global recurrence and VCSS: no difference between the 2 groups
EVLA Bare Fibre <i>versus</i> Tulip Fibre	Vuylsteke M, Thomis S, Mahieu P, Mordon S, Fourneau I. Endovenous laser ablation of the great saphenous vein using a bare fibre <i>versus</i> a tulip fibre : a randomised clinical trial. <i>Eur J Vasc Endovasc</i> <i>Surg</i> . 2012;44:587-92.	 Muti-center study GSV primary incompetence in 174 patients without SSV incompetence or deep vein anomaly. CEAP clinical class C2-C6 Local tumescent anesthesia +/- general anesthesia Group I (n=87): EVLA 1470nm diode bare fiber versus Group II (n=87): bare fiber +Tulip fibre Complementary phlebectomy in both groups Post-operative results: Less postoperative ecchymosis in group II (Tulip fibre) compared with group I (P<0.001). Less postoperative pain in group II (Tulip fibre) compared with group I. P<0.001. Better HRQoL in group II (Tulip fibre) compared with group I. P=0.0023. But no difference between groups in terms of analgesic intake or patient satisfaction

		Results at 1 year of follow-up:
		No difference between groups in terms of obliteration rate
EVLA	Bakker NA, Schieven LW, Bruins	Muti-center study
2 days post operative compression <i>versus</i> 7 days	RMG, van den Berg M Hissink RJ. Compression Stockings after Endovenous Laser Ablation of the Great Saphenous Vein: A Prospective Randomized Controlled Trial. <i>Eur. J Vasc</i> <i>Endovasc Surg</i> . 2013;46:588-91.	 109 symptomatic patients with incompetent GSV. No data on SSV, absence of deep vein anomaly, CEAP clinical class C2-C5 Local tumescent anesthesia Group I (n=37): EVLA 810 nm bare-tip fibre + 2 days of postoperative compression therapy (stockings, 35 mm Hg at ankle) <i>versus</i> Group II (n=32): EVLA 810 nm bare-tip fibre + 7 days of postoperative compression therapy (stockings, 35 mm Hg at ankle) <i>Results at 48 hours to 12 weeks of follow-up:</i> <i>Intensity of symptoms on VAS at week 1</i>: better pain reduction in group II compared with group I <i>HRQoL (SF36) at week 1</i>: better improvement Vein obliteration: 100 % in both groups neither
EVLA 12 W	Samuel N, Wallace T, Carradice	Monocenter study
intermittent	D, Mazari F AK, Chetter C.	Primary Incompetent SFJ, reflux in GSV 76 patients. No data on
laser withdrawal	Comparison of 12-W versus 14-W	SSV, absence of deep vein anomaly, CEAP clinical class C2-C5
versus 14W	Endovenous laser ablation in the	Local tumescent anesthesia
continuous laser withdrawal	treatment of great saphenous	Group I (n=38): laser 810-nm bare fiber; laser power 12 W with 1-
	Varicose veins: 5- Year outcomes	second laser pulses at 1-second intervals between pulse
	Irom a randomized controlled that.	versus
	Surgeny 2013:47:346	Group II (n=38): laser 810-nm bare fiber; laser power 14 W continuous
	52.	withdrawal 2mm/s. Concomitant phiebectomy and/or Perforator ligation
		Results at 1 week-5 years of follow-up: Significant improvement in
		both groups in VCSS, pain scores, AVQQ scores, HRQoI scores (SF-
		36 EQ-5D) compared to preoperative status P>0.05
		Results at 5 years of follow-up: Better long-term occlusion
Classic open surgery	Flessenkämper I, Hartmann M,	Multi-center study.

versus	Stenger D, Roll S. Endovenous laser	Patients with primary GSV incompetence + incompetent SFJ. No data on SSV
EVLA variants	ablation with and without high ligation	and deep venous system
for	compared with high ligation and	CEAP clinical classification C2-6
for GSV or SSV	stripping in the treatment of great	All procedures were performed under general, peridural or spinal anesthesia
incompetence	saphenous varicose veins: initial	<mark>Group I (n=59): HL+ Stripping</mark>
	results of a multicentre randomized	Group II (n=142): EVLA
	controlled trial. <i>Phlebology</i> .	Group III (n=148): EVLA+HL
	2013;28:16-23.	Diode 980-nm diode laser, bare fiber, continuous mode in groups II and III.
		All procedures were performed under general, peridural or spinal anesthesia
		Results at day 1 after operation:
		 Post-operative pain was higher in group III compared with groups I
		and II. P=0.0069
		Results at 2 months of follow-up:
		VCSS scores: no difference between groups
		Presence of inguinal reflux in GSV: Group I=0; Group II = 26.7%;
		Group III=6.7%
		Group I versus group II. P<0.0001
		Group I versus group III. P< 0009
		Group II versus group III. P<0.0001
E)// A 040 pm	Malskat WSJ, Giang G, De	Monocenter study
EVLA 940 IIII	Maeseneer MGR, Nijsten TEC, van	142 patients with primary symptomatic GSV incompetence with a
versus	der Bos RR. Randomized clinical	<mark>diameter at least 5mm.</mark>
EVLA 1470	trial of 940- versus 1470-nm	Exclusion criteria; Acute DVT, PTS, vascular malformation.
nm	endovenous laser ablation for great	No data on SSV, deep reflux or CEAP clinical class.
	saphenous vein incompetence. Br J	All patients treated by EVLA in an outpatient setting.
	Surg. 2015. DOI:	Local tumescent anesthesia
	10.1002/bjs.10035	Tulip-tip fibre and concomitant phlebectomy
		Group I (n=70): laser 940-nm
		versus
		Group II (n=72): laser 1470-nm
		Results at 1-52 weeks of follow-up:
		-Pain score at 1week (VAS) Less pain in group II (P=0.0004)
		-Duration of analgesia

		Shorter in group II. P=0.037 . Post-operative complications Same in both groups except for superficial thrombophlebitis that was higher in group II. P=0.05 . HRQol and VCSS at 12 weeks No difference between the 2 groups . Vein occlusion at 52 weeks No difference between the 2 groups
EVLA 980 nm bare-Tip fiber versus EVLA 1470 nm Radial 2ring	Hirokawa, M, Ogawa T, PhD, Sugawara H, Shokoku S, and Sato S. Comparison of 1470 nm Laser and Radial 2ring Fiber with 980 nm Laser and Bare-Tip Fiber in Endovenous Laser Ablation of Saphenous Varicose Veins: A Multicenter, Prospective, Randomized, Non-Blind Study. Ann Vasc Dis. 2015;8:282-289.	Multi-center study 113 patients (113 LL) with primary GSV or SSV incompetence CEAP C2-C4a. No PTS Group I (n=56): laser 980-nm bare type fiber <i>versus</i> Group II (n= 57): laser 1470-nm Radial 2ring. In both groups: □ local tumescent anesthesia Postoperative compression Results at 1 day- 12 weeks of follow-up - Occlusion rates at 12 weeks were 100% in both groups. - Rates of pain (0% vs. 25.0%) and bruising (7.0% vs. 57.1%) were significantly lower in Group II. P <0.0001.
EVLA with tumescent anesthesia Bupivacaine vs Lidocaine versus Prilocaine	Gunes T, Altin F,Kutas B, Aydin S, Erkoc K, Eygi B et al. Less painful tumescent solution undergoing endovenous laser ablation of the saphenous vein. Ann of Vasc Surg 2015;29:1123-27	Multi-center study 90 patients with primary incompetence of GSV. No data on SSV, absence of deep vein anomaly, no data on CEAP clinical class All patients treated by EVLA+ tributary phlebectomy under local anesthesia Group I (n=30): Lidocaine Group II (n=30): Prilocaine Group III (n=30): Bupivacaine Results: intra operatively and 1 day post operatively pain

		Less pain with Bupivacaine compared to others for both pain evaluation P<0.0001
EVLA 1470-nm versus EVLA 1920-nm	Mendes-Pinto D, Bastianetto P, Cavalcanti Braga Lyra L, Kikuchi R, Kabnick L. Endovenous laser ablation of the great saphenous vein Comparing 1920-nm and 1470-nm diode laser. Int Angiology 2016.;35:599-604	Multi-center study 67 patients (90 extremities) with primary incompetence of GSV. No data on SSV, absence of deep vein anomaly, no data on CEAP clinical class Spinal and local tumescent anesthesia Group I (n= 42 extremities) EVLA 1470-nm. Power 10 watt. Continuous mode versus Group II (n= 48 extremities) EVLA 1920-nm. Power 5 watt. Continuous mode Follow-up at 7-day, 30-day, 3-month, 6- month 1year: Results Clinical evaluation= VCSS. US= measurement of occlusion length . Group II: less ecchymosis P<0.01, induration P <0.01, day analgesic use P =NS . VCSS no difference between group I and II . Closure rate lower at 1-year in group II. P=0.05
Classic open surgery <i>versus</i> EVLA variants for for GSV or SSV incompetence	Flessenkämper I, Hartmann M, Hartmann K, Stenger D, Roll S. Endovenous laser ablation with and without high ligation compared with high ligation and stripping for treatment of great saphenous varicose veins: Results of a multicentre randomised controlled trial with up to 6 years follow-up. <i>Phlebology.</i> 2016;31(1):23-33.	Multi-center study. Patients with primary GSV incompetence + incompetent SFJ. No data on SSV and deep venous system CEAP clinical classification C2-6 All procedures were performed under general, peridural or spinal anesthesia Group I (n=159): HL+ Stripping Group II (n=142): EVLA Group III (n=148): EVLA+HL Diode 980-nm diode laser, bare fiber, continuous mode in groups II and III. Anesthesia: unknown in group I; local tumescent anesthesia in groups II and III. Results at 2 (74% of patients) up to 6 years of follow-up (31% of patients) Clinical recurrence appears with the same frequency in all three treatment groups, but the responsible pathological mechanisms seem to differ.

		Group I: more recurrence at the SFJ Group II and III: more
		recurrence into the GSV and tributaries.
EVLA	Carradice D, Mekako AI, Hatfield J,	Monocenter study
completed with delayed or	Chetter IC. Randomized clinical trial	50 patients presenting primary incompetence of GSV without SSV
concomitant phlebectomy	of concomitant or sequential	incompetence or deep vein anomaly. No data on CEAP clinical class
. ,	phlebectomy after endovenous	All of them were treated by EVLA+ tributary phlebectomy under local
	laser therapy for varicose veins. Br	<mark>anesthesia</mark>
	J Surg. 2009;96:369-375.	Group I (n=25): delayed phlebectomy versus
		versus
		Group II (n=25): concomitant phlebectomy
		Follow-up at 1year:
		Procedure duration: longer in group II (median 65 min)
		compared with group I (median 45 min). P=0.002
		Pain scores and recovery times: no difference between the 2
		groups
		HRQoL, severity score (AVVQ, VCSS) at 6 weeks: lower
		AVQQ score in group II compared to group I. P<0.001
		HRQoL, severity score (AVVQ, VCSS) at 12 weeks: lower
		AVQQ and VCSS in group II compared to group I. P=0.015
		and P<0.001 respectively.
		At 1 year, there were no difference in VCSS or AVVQ
		scores.
		. Concomitant phlebectomy with EVLT prolonged the procedure
		but reduced the need for secondary procedures.
	El-Sheika J, Nandrah S, Carradice	Monocenter study
	D, Wallace T, Samuel N, Smith GE	50 patients presenting primary incompetence of GSV without SSV
	et al. Clinical outcomes and quality	incompetence or deep vein anomaly. No data on CEAP clinical class
	of life 5 years after a randomized	All of them were treated by EVLA+ tributary phlebectomy under local
	trial of concomitant or sequential	anesthesia
	phlebectomy following endovenous	Group I (n=25): delayed phlebectomy
	laser ablation for varicose veins. Br	versus
	J Surg. 2014;101:1093-1097.	Group II (n=25): concomitant phlebectomy
		Results at 1 to 5 years of follow-up:

		HRQoL severity score (AVVQ, VCSS): were equivalent at 1 year in both groups Secondary procedure at 1 year: rate of redo surgery equivalent between group I=3 and group II=4. Secondary procedure at 5 years: group I= 19/23, and group II=7/25. (P<0.001
EVLA in patients with and without compression	Elderman JH, Kraznai AG, Voogd AC,Hulsewé KWE, Sikking CJMM. Role of compression stockings after endovenous laser therapy for primary varicosis .J Vasc Surg: Venous and Lym 2014;2:289-96	Muti-center study 79 patients with primary incompetence of GSV with incompetence of the SFJ. CEAP clinical class C2S-C4S No data on SSV, absence of deep vein anomaly. Criteria exclusion: Previous DVT VV surgery All of them were treated by HL +EVLA 810 nm continuous withdrawal Elastic bandage on the operating table left for one day Group I (n=39): No compression <i>versus</i> Group II (n=40) high elastic compression, class II worn12.48 hourd/day Follow-up 6 weeks - Less postoperative pain in group II until day 14. P=0.017- 0.067 - Less analgesic in group II. P=0.004 - No significant differences were found regarding time to return to work, Aberdeen Varicose Vein Questionnaire scores, RAND 36-Item Health Survey scores, leg circumference measurements, and risk of complications.
EVLA in patients with and without compression	Ye K, Wang R, Qin J, Yang X, Yin M, Liu X, Jiang M. Post-operative Benefit of Compression Therapy after Endovenous Laser Ablation for Uncomplicated Varicose Veins: A Randomized Clinical Trial EJVES 2016;52, (6) :847–853	Monocenter study 400 patients with primary incompetence of GSV. No data on SSV, absence of deep vein anomaly. CEAP clinical class C2. All of them were treated by HL +EVLA 810 nm continuous withdrawal for GSV+ laser ablation of tributary by multiple punctures. Elastic bandage on the operating table left for one night Group I (n=200): No compression

DOI: http://dx.doi.org/10.1016/j.ejvs.	versus
2016.09.005	Group II (n=200) high elastic compression, 23-32 mmHg at ankle for
	2 weeks.
	Follow-up 2 weeks
	First week
	Group II
	less pain P<0.001
	less edema P=0.01
	After one week
	No difference in terms of HRQoL and mean time to return to work
Avo A. Blumberg SN. Rockman CR.	Monocenter study
Sadek M. Caine N. Ademann M et	70 patients presenting primary GSV varices, no data on SSV, no history
al. Compression versus no	of deep vein thrombosis
Compression after Endovenous	CEAP classification class C2-C6.
Ablation of the Great Saphenous	They were treated by EVT without complementary phlebectomy:
Vein: A Randomized Controlled	EVLA 890nm, 7 W for a
Trial. Ann Vasc Surg 2017; 38: 72–	total of 60-80 J/cm delivery.
77	were divided into 2 groups
	Group I (n=46): no compression except 24 hr. of post-procedure
	bandage
	versus
	Group II (n=39): Thigh – high 30-40-mm Hg compression 24 hr. after
	the procedure for 7 days.
	Baseline characteristics similar for both groups
	Results assessed at 1 and 7 day.
	There was no significant difference in patient-reported outcomes of
	postprocedural pain scores estimated by CIVIQ-2 and VCSS

EVLA or RFA + tributary phlebectomy with buffered local tumescent anesthesia (LTA) vs non-buffered LTA	Nandrah S, Wallace T, El-Sheika J, Leung C, Carradice D, Chthesia during tter I. A Randomised clinical trial of buffered tumescent local anesthesia during endothermal ablation for superficial venous incompetence EJVES 2018,56:699- 708	Monocenter study 97 patients presenting primary GSV incompetence. No SSV incompetence, no deep vein anomaly They were treated by EVLA with concomitant phlebectomy. CEAP clinical classification C2-C6. All patients treated by EVLA or RFA +tributary phlebectomy Group I (n= 47) buffered tumescent anesthesia versus Group II (n= 50) non-buffered tumescent anesthesia Follow-up assessment at 1, 6 and 12 weeks -Peri-procedural pain score measured by VAS. Best result in Group I. P= 0.001 -Pain score and analgesic use in the subsequent week same in both groups Best result in Group I. P=0.008. -No difference in terms of VQQ, SF36, and EQ-5D scores between the 2 groups Conclusion
EVLA for varices with and without perioperative administration of MPFF	Stoiko YuM, Mazaishvili KV, Khlevtova TV, Tsyplyashchuk AV, Kharitonova SE, Akimov SS. Effect of pharmacotherapy on course of postoperative period after endovenous Thermal ablation. angiol Sosud khir 2015	Buffered local tumescent anesthesia provides better results Monocenter study 60 patients presenting primary VV of the GSV C2S Ep P r were treated by EVLA or RFA. Group I (n 30) MPFF 7 days after operative treatment <i>versus</i> Group II (n 30) No venoactive drugs Results By using both CIVIQ and VCSS Group I - pain reduction. P<0.05
Endovenous surgery for varices with and without	Bogachev V, Yu, Boldin BV, Turkin Pu. Perioperative administration of	Monocenter study. 1519 patients with primary GSV or SSV

perioperative administration of MPFF	micronized purified flavonoid in endovascular treatment of varicose	were treated by endovascular thermal ablation (EVLA or RFA) Clinical class C2
	disease. Angio Sosud Khir 2019;25:	Group I (n 1039): MPFF 1000mg/daily in the perioperative period
	89-95.	versus
		Group II (n 400) no venoactive treatment
		Results
		Less adverse events in Group I: compared to Group II:
		Ecchymosis 7.1 vs 11%. P=0.01
		Hematoma 0.5 vs 1.3%. P=0.1
		Paresthesia 0.5 vs 1.7 %. P=0.02
		Thrombophlebitis 0.2 vs 0.6 %. P=0.2
		Pigmentation 0.6 vs 3.3 %. P=0.001
		Heat -induced thrombosis 0.3 vs 1.3%. P=0.02

Abbreviations:

AK= above knee; AVVQ= Aberdeen varicose vein questionnaire; AVVSS= Aberdeen varicose vein severity score ;BK= below knee; BK-FS= below knee foam sclerotherapy; CIVIQ-2= Chronic Venous Insufficiency Questionnaire; DVT=deep venous thrombosis ;EQ-5D Euroqol; EVLA= endovenous laser ablation; EVT=endovenous thermal ablation; GSV =great saphenous vein; HL= High ligation; HRQoL=health-related quality of life; NTG, nitroglycerin; PTS =postthrombotic syndrome; RFA= radiofrequency ablation; SFJ=saphenofemoral junction; SF-36= short form 36 items ;SSV=small saphenous veins; US=ultrasound ;VAS= Visual analogic Scale; VCSS= venous clinical severity score ;VV= varicose veins W=watt.