# Endovenous Laser Ablation
# - Procedure Documentation Protocol -

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**Date of operation:**

**Surgeon:** **Assistant:**

**Patient details**

Surname: First Name:

Date of Birth:

Sex: M / F / D

Use separate Protocol for each vein treated

Hight [cm]:_____ ☐ General Anesthesia ☐ GSV ☐ right CEAP C: _____

Weight [Kg]:_____ ☐ Spinal Anesthesia ☐ SSV ☐ left CEAP A (1-5) : __

ASA:_____ ☐ LA +/- Sedation ☐ _____(Others) rVCSS:_____

Laser wavelength/Fiber type:_____ FLQA-VS-10____

☐ Tumescence + LA ☐ Tumescence only ☐ No Tumescence Temp. Tume.:_____

| Pre-OP OD | [mm] |
|---|---|
| G1/S1 | |
| G2/S2 | |
| G3/S3 | |
| G4/S4 | |
| G5/S5 | |
| G6/S6 | |
| G7/S7 | |

| Pre-OP OD | Identified [Y/N] | OD3 [mm] | Reflux [Y/N] |
|---|---|---|---|
| AASV | | | |
| PASV | | | |

| ZONE | Length [cm] | Tume. [ml] | P [Watt] | V [mm/s] | LEED [J/cm] |
|---|---|---|---|---|---|
| Zone 1G | | | | | |
| Zone 2G | | | | | |
| Zone 3G/1S | | | | | |
| Zone 4G/2S | | | | | |

**Adjunct Procedures ipsilateral:** ☐ NONE

☐ Miniphlebectomies Thigh, Incisions [n]:___ ☐ Perforator Lig. Thigh,Incisions [n]:__

☐ Miniphlebectomies Leg, Incisions [n]:_____ ☐ Perforator Lig. Leg, Incisions [n]:___

☐ Crossectomy GSV ☐ Stripping GSV ☐ EVLA GSV

☐ Crossectomy SSV ☐ Stripping SSV ☐ EVLA SSV

**Adjunct Procedures contralateral** ☐ NONE

☐ Miniphlebectomies Thigh, Incisions [n]:___ ☐ Perforator Lig. Thigh,Incisions [n]:__

☐ Miniphlebectomies Leg, Incisions [n]:_____ ☐ Perforator Lig. Leg, Incisions [n]:___

☐ Crossectomy GSV ☐ Stripping GSV ☐ EVLA GSV

☐ Crossectomy SSV ☐ Stripping SSV ☐ EVLA SSV

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# Endovenous Laser Ablation
# - Follow-up Protocol -

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☐ W1 ☐ M1 ☐ M6 ☐ Y1 ☐ Y2 ☐ Yx

**Date of Follow-Up:**

**Examiner:**

**Patient details**

Surname: First Name:

Date of Birth:

Sex: M / F / D

Use separate Protocol for each vein treated

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**Date of Operation:** ☐ GSV ☐ right Laser Wavelength:_____

☐ SSV ☐ left Fiber Type:_____

Max. intraoperativ pain intensity [NAS 0-10]: ____

p.o. Analgesia i.v. (nr. of doses) [n]: _____ Inability to work (Days p.o.) [n]: _____

p.o. Analgesia oral (nr. of doses) [n]: _____ Return to daily activities (Days p.o.) [n]: ____

**Clincal status:** CEAP: C_____ rVCSS:_____ FLQA-VS-10____

Pain intensity, Thigh [NAS 0-10]: _____ Pain intensity, Leg [NAS 0-10]:_____

☐ Paresthesia LIP, Thigh [$cm^2$]:_____ ☐ Paresthesia MIP, Thigh [$cm^2$]:_____

☐ Paresthesia LIP, Leg [$cm^2$]:_____ ☐ Paresthesia MIP, Leg [$cm^2$]:_____

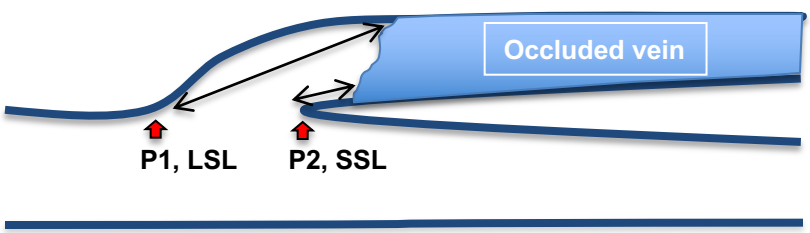
☐ Hematoma EVLA, Thigh [$cm^3$]:_____ ☐ Hematoma Phlebectomy, Thigh [$cm^3$]:___

☐ Hematoma EVLA, Leg [$cm^3$]:_____ ☐ Hematoma Phlebectomy, Leg [$cm^3$]:_____

**Duplex:**

Longest stump length (LSL) [mm]: ___ Reflux: ☐ no ☐ yes
[Maximum length of the non occluded lumen of the treated vein]

Shortest stump length(SSL) [mm]: _____
[Shortest distance between the SFJ/SPJ and the occluded vein]




**AASV** patent: ☐ no ☐ yes Reflux: ☐ no ☐ yes

**PASV** patent: ☐ no ☐ yes Reflux: ☐ no ☐ yes

Other patent veins: ☐ no ☐ yes Reflux: ☐ no ☐ yes

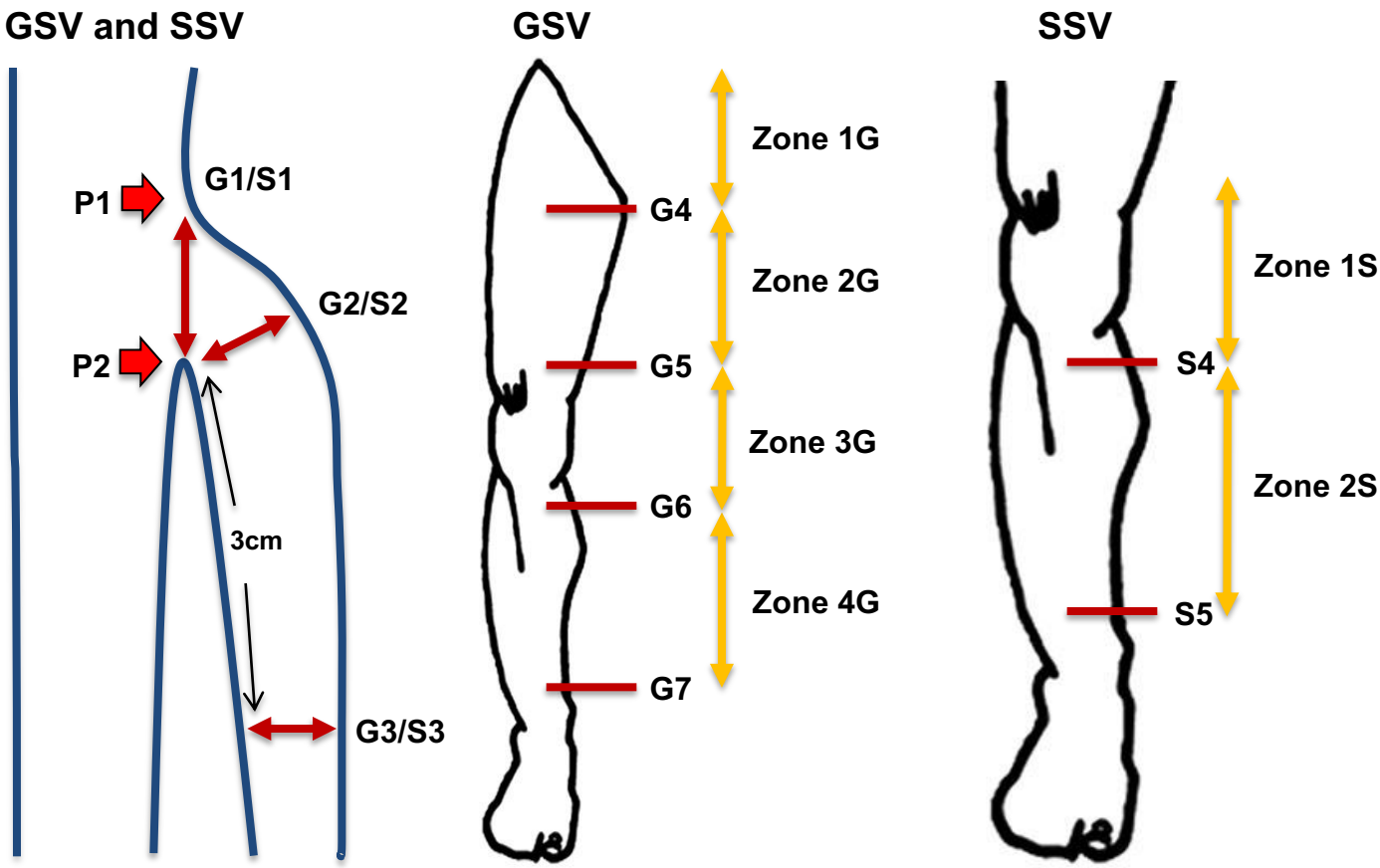
OD (mm): AASV:____ PASV:____ Other patent veins:____

Recanalisation peripheral [cm]: ____ Reflux: ☐ no ☐ yes

| Post-OP OD | [mm] |
|---|---|
| G1/S1 | |
| G2/S2 | |
| G3/S3 | |
| G4/S4 | |
| G5/S5 | |
| G6/S6 | |
| G7/S7 | |

**Further comments:**

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**4-Zone Model**

Zone-1G extended from inguinal ligament to the apex of femoral triangle (level of perineum)
Zone-2G from the apex of femoral triangle to the upper border of patella
Zone-3G from patella to tibial tuberosity
Zone-4G extended from the tibial tuberosity to ankle joint for GSV
Zone-1S extended from SPJ to tibial tuberosity for the SSV
Zone-2S extended from the tibial tuberosity to ankle joint for SSV

**Legend:**

GSV: Great saphenous vein, SSV: Small saphenous vein, AASV: Anterior accessory saphenous vein, PASV: Posterior accessory saphenous vein, CEAP: CEAP classification, rVCSS: Revised venous clinical severity score, FLQA-VS-10: Freiburg life quality assessment for chronic venous diseases, LA: Local anesthesia, Pre-OP: Pre-operative, OD: Outer diameter, Tume.: Tumescence, P: Power, V: Pullback velocity, LEED: Linear endovenous energy density, Lig.: Ligature.

W1: Follow-up within 1 week postoperative, M1: at 1 month, M6: at 6 months, Y1: at 1 year, Y2: at 2 years, p.o.: Postoperative, i.v.: Intravenous, NAS: Numerical analogue scale (0-10), LIP: Laser induced paresthesia, MIP: Mechanical induced paresthesia, AASV: Anterior accessory saphenous vein, PASV: Posterior accessory saphenous vein.

G1: Outer diameter of GSV at the junction with the deep vein, G2: Outer diameter of GSV measured from distal ostial point (P2) at sapheno-femoral junction (SFJ), perpendicular to the central vessel axis, G3: Outer diameter of GSV 3 cm peripheral to the junction to the deep vein, G4: Outer vein-diameter at the level of perineum for GSV, G5: Outer vein-diameter at the upper border of Patella for GSV, G6: Outer vein-diameter at the level of tibial tuberosity for GSV, G7: Outer vein-diameter proximal to the medial malleolus for GSV, S1: Outer diameter of SSV at the junction with the deep vein, S2: Outer diameter of SSV measured from distal ostial point (P2) at sapheno-poplitea junction (SPJ), perpendicular to the central vessel axis S3: Outer diameter of SSV 3cm peripheral to the junction to the deep vein, S4: Outer vein-diameter at the level of tibial tuberosity for SSV, S5: Outer vein-diameter proximal to the lateral malleolus for SSV. P1: Proximal ostial point at the sapheno-femoral (SFJ) or sapheno-poplitea junction (SPJ), P2: Distal ostial point at the SFJ/SPJ.

**Literature:**

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