

Results of the study on treating varicose veins using the Endovenous Radiofrequency ablation device EVRF®

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Modern methods of treating varicose veins

- Thermal treatment methods: EVLT, RFA, steam ablation.
- Non-thermal methods: various types of sclerotherapy (standard sclerotherapy, mechanochemical obliteration), obliteration with cyanoacrylate glue.

Goal

Evaluation of the effectiveness of treating varicose veins in the lower extremities using F-Care's RFA system EVRF in outpatients.

Characteristics of the used equipment

- Information from manufacturer: high-frequency coagulation (4 MHz).
- Indications for use: varicose veins at any location (face, limbs), great and small saphenous veins, vascular networks and spider veins, perforated, collateral and reticular veins, haemorrhoids, stretch marks.

EVRF



Materials and methods

- Number of treated patients from April 2016 up to May 2017 in an outpatient setting: 378.
- Men: 102 (27%)
- Women: 276 (63%)
- Age: between 18 and 79 years old.
- CEAP classification: C2-3 – 64.3% (n=243), C4-5 – 31.5% (n=119), C6 4.2% (n=16).

Materials and methods

- GSV – 346 persons (91.5%)
- SSV – 32 persons (8.5%)
- Average diameter GSV – 9.0 mm.
- Average diameter SSV – 5.0 mm.
- Length treated segment of the GSV – up to 50 cm.
- Length treated segment of the SSV – up to 25 cm.
- Average total energy administered to the veins is 17400 J over the entire length.

Evaluation of the effectiveness of the treatment

- Complete closing of operated vein during the observation period (up to 1 year): 98.1%.
- Recanalization: 1.9%.

Results

- In the postoperative period, some patients experienced uncomfortable sensations that do not require NSAIDs.
- Perforations of veins, fragmentations of the electrode were not observed in any of the cases in the study.
- This technique allows for effective and safe ablation of varicose veins in outpatients.