Abstract

Title: ***biochemical endothelial injury detection of sapheno-femoral junction in endovenous laser ablation of varicose veins.***

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Background: thrombus formation and extension to femoral or popliteal veins and pulmonary embolism may be though as a complication of EVLT in varicose veins treatment **Aim of the work:** we aimed to study the thermal energy effect of the procedure under standardized conditions on biochemical markers of platelets and endothelium activities.

Patients and methods: 25 patients admitted to vascular surgery dept. of Alexandria armed forces hospital with varicose veins and GSV.reflux and all treated by endovenous laser ablation during: 7/1/2017_12/25/2018.Venous blood samples were taken from iliofemoral and anticubital veins, before during and one day after surgery of P-selectin, solulable thrombomodulin, fibrin degradation products and D-diamer.

Results: Mean age of patients was 34.6 +0.5 years, female/male was 3/2 all of them were related to CEAP 2-6 with left side predominance 16/9. There was no immediate rise of P-selectin and s TM in neither iliofemoral nor anticubital veins, where FDPs D-diamer was significantly elevated post operatively in the tow regions.

Conclusion: 1480 pulsed mode Nad- YAG diod laser doesn't induce measurable endothelial and platelets activation in iliofemoral region during endovenous ablation of varicose veins.



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Biography

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