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Biochemical endothelial injury detection of saphenofemoral 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 thought as a complication of EVLT in varicose veins treatment

Aim: We aimed to study the thermal energy effect of the procedure under standardized conditions on biochemical markers of platelets and endothelium activities.

Patients & 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 antecubital veins, before during and one day after surgery of P-selectin, soluble thrombomodulin, fibrin degradation

products and D-dimer.

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 antecubital veins, where FDPs D-dimer was significantly elevated post operatively in the two regions.

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

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