Mechanical Thrombectomy Using Rotarex for aortobifemoral synthetic graft thrombosis

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INTRODUCTION
The Rotarex System is a thrombectomy treatment option for acute and subacute thrombotic occlusions of infra-aortic bypass-graft occlusions. We present a 60-year-old man who had undergone aortobifemoral synthetic graft surgery 13 years ago.

MATERIAL, METHOD, RESULT
The patient experienced thrombosis of the right limb graft 3 weeks earlier, and thrombectomy of the graft was recommended. However, the patient did not accept to undergo surgery for thrombus removal and so planned for possible endovascular treatment.

The access was obtained from right superficial femoral artery under ultrasound guidance. There was some difficulty in wiring (Astato XS 20) to pass retrogradely through distal junction of prosthetic graft. The patient treated with percutaneous mechanical thrombectomy Using Rotarex® S device. Underlying stenosis of right proximal graft anastomose was treated with percutaneous balloon angioplasty, and a balloon expandable stent was deployed on the right proximal anastomosis. Kissing balloon inflation of right and left proximal graft limbs was done.

CONCLUSION
Aspiration thrombectomy could be used as an effective recanalization method for aortobifemoral graft occlusion and should be regarded as a good alternative technique to surgical thrombectomy in some patients.

Aortography from contralateral limb access shows occluded right limb of aortobifemoral synthetic graft

Thrombectomy by Rotarex from ipsilateral 8F sheath

Residual stenosis at proximal & distal of graft

Final result after proximal graft stenting and ballooning of distal graft