**CASE STUDY**

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**Acoustic Pulse Thrombolysis™ Treatment Enables Fast, Very Low Dose Clearance of Large Thrombus in Iliac Stent Graft**

**Patient History**

73-year old male with acute right leg pain at rest following elective endovascular aneurysm repair (EVAR) two days prior. Bilateral surgical access for the EVAR was obtained through the femoral arteries. An endovascular stent graft was deployed within the aorta, with the bifurcated graft portion implanted within the common iliac arteries.

- Ultrasound confirmed an 18 cm long occlusive thrombus inside the right branch of the iliac stent-graft

**Treatment**

24cm (106cm working length) EKOS® device
- Access was obtained through the left humeral artery
- Catheter was placed into the right iliac stent-graft thrombus and positioned so that the catheter did not extend beyond the distal end of the graft
- 100,000 bolus of Urokinase and 5000 IU Heparin IV
- Urokinase was infused through the EKOS® device at 50,000 IU/hr for 3 hours

**Results**

After 3 hours of treatment and 250,000 IU Urokinase
- Complete recanalization of the occluded vessel
- With the clot resolved, an abdominal aortogram revealed stenosis in the right iliac artery due to kinking of the stent graft. It also showed evidence of external iliac artery and common femoral artery dissection at the surgical access site
- Subsequent balloon dilation of the right stent graft (12 mm PTA balloon) and common femoral artery (7 mm PTA balloon), and placement of an additional stent within the external iliac artery resolved the stenosis and sealed off the dissection

"Use of the EKOS® device enables safe, low dose treatment of occlusive thrombus in situations such as post femoral arteriotomy where risk of hemorrhagic complications is high." – Nicola Limbucci, MD

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**FDA CLEARED INDICATIONS:** The EkoSonic® Endovascular System is indicated for the ultrasound facilitated, controlled and selective infusion of physician-specified fluids, including thrombolytics, into the vasculature for the treatment of pulmonary embolism; the controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature; and the infusion of solutions into the pulmonary arteries. Instructions for Use, including warnings, precautions, potential complications, and contraindications can be found at www.ekoscorp.com. Cautions: Federal (USA) law restricts these devices to sale by or on the order of a physician. EKOS® and EkoSonic® are registered trademarks of EKOS Corporation, a BTG International group company. Acoustic Pulse Thrombolysis is a trademark of EKOS Corporation. BTG and the BTG roundel logo are registered trademarks of BTG International Ltd.