

CASE STUDY

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Ultrasound Accelerated Thrombolysis of Chronic Deep Vein Thrombosis (DVT)

Patient History

65-year-old male who underwent proctectomy and total colectomy developed DVT post-operatively:

- Presented with extensive and extreme swelling in his left lower extremity

Treatment

50cm EKOS Mach 4 infusion device inserted, covered entire area:

- Access was obtained through right femoral vein
- IVC filter was positioned below the renal veins
- Left lower extremity venogram showed extensive thrombus from left superficial femoral vein into the left iliac veins, and a combination of chronic and acute thrombus
- EKOS ultrasound-accelerated thrombolysis along with TPA at 0.5 mg/hour (12.5 mL/hr volume) and Heparin (400 units/hour) were delivered

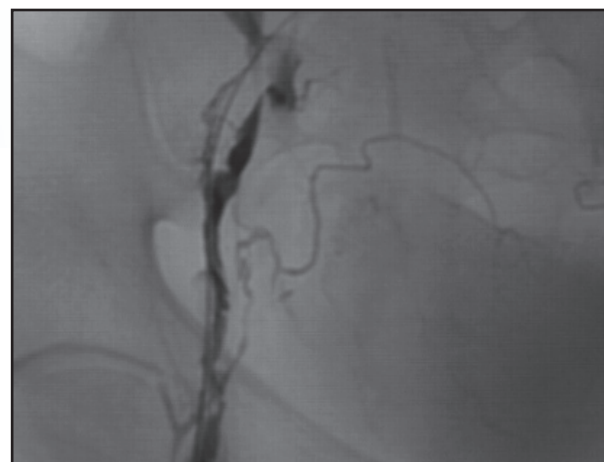
Results

Patient brought back 13.5 hours after EKOS Mach 4 was placed:

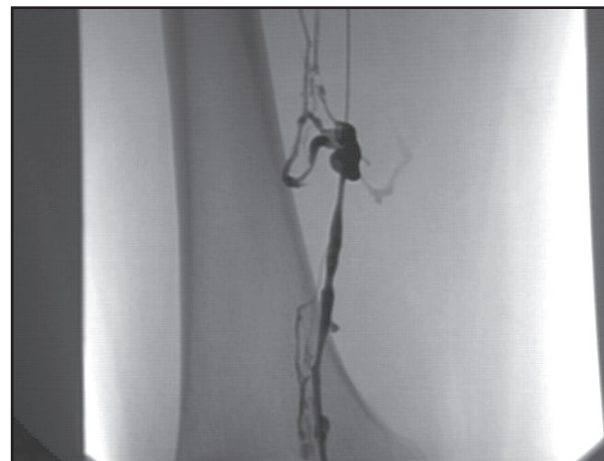
- Inferior venacavogram post-EKOS lysis confirmed recanalization of the superior femoral vein, common femoral vein and external iliac vein without residual thrombus
- Left common iliac vein required a stent due to chronic stenosis

2 month follow-up:

- Duplex doppler ultrasound 2 months post-EKOS showed patent venous system in the left leg and iliac veins
- Patient had no residual swelling or evidence of post-thrombotic syndrome



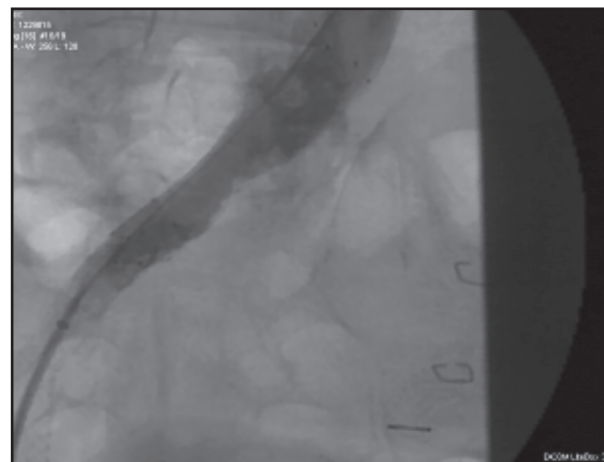
Pre-EKOS - acute and chronic ilio-femoral thrombus



Pre-EKOS - extensive superficial femoral thrombus



Post-EKOS - complete resolution of acute and chronic thrombus



Post-EKOS post-stenting of iliac vein stenosis

EKOS

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Intended Use The EKOS EkoSonic™ Endovascular Device is intended for controlled and selective infusion of physician specified fluids, including thrombolytics, into the peripheral vasculature. **Contraindications** • Not designed for peripheral vasculature dilation purposes. • This system is contraindicated when, in the medical judgment of the physician, such procedure may compromise the patient's condition. © 2008 EKOS Corporation • CE0197 • 21319-EN-001