CASE STUDY

Limb Salvage in Critical Limb Ischemia

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Patient History

- 69yo male with uncontrolled diabetes presented with bilateral femoral-popliteal artery occlusions. The right foot was cadaveric and the left foot was critically ischemic (SVS IIB). Four-quadrant faciotomy was performed on right leg with pending amputation of both legs.

- **EKOS™ Acoustic Pulse Thrombolysis™ Treatment**
  - 50 cm EKOS™ device placed, contralateral approach
  - Infusion of reteplase at 0.5 u/hr for 4 hours, then reduced to 0.25 u/hr

- Duplex/Doppler at 1 hour demonstrated recanalization of the SFA
- Angiography at 6 hours confirmed total thrombus resolution in the CFA, SFA and popliteal arteries with TIMI III flow into the trifurcation area and single vessel runoff in the anterior tibial artery
- The dorsalis pedis pulse was detectable with Doppler and significant clinical improvement was noted with improved skin color and temperature and capillary refill
- EKOS™ device replaced with 3F infusion catheter with overnight infusion into tibio-peroneal trunk
- Follow-up angiography revealed a focal stenosis in the tibio-peroneal trunk
- Stent placement resulted in TIMI III flow in the left posterior tibial artery up to the left foot with a biphasic Doppler signal
- Patient underwent successful amputation of cadaveric right foot

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**Indications for use:** The EkoSonic™ Endovascular System is intended for controlled and selective infusion of physician-specified fluids, including thrombolytics, into the peripheral vasculature. The EkoSonic™ Endovascular System is CE Marked for the treatment of pulmonary embolism with a ≥50% clot burden in one or both main pulmonary arteries or lobar pulmonary arteries, and evidence of right heart dysfunction based on right heart pressures (mean pulmonary artery pressure ≥25 mmHg) or echocardiographic evaluation. Contraindications: Not designed for peripheral vasculature dilation purposes. This system is contraindicated when, in the medical judgment of the physician, such a procedure may compromise patient’s condition. Such conditions include but are not limited to: 1. Tortuous vascular anatomy compromising safe introduction of endovascular equipment; 2. Conditions associated with increased risk of bleeding. See device instructions for use for complete prescribing information http://ekoscorp.com/international-enter.htm#Resources

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