CASE STUDY

EKOS

EKOS™ Lysis of a Chronic Occlusion of the SFA

Justin A. Robinson, MD - Yakima Valley Memorial Hospital, Yakima, WA

Patient History

- 40yo female presented with persistent symptoms of lower limb claudication pain/heaviness. Left superficial femoral artery (SFA) endarterectomy 4-years prior
- Symptoms more pronounced on the left lower limb than right and during uphill walking
- History of diabetes and renal transplant
- Physical examination: no pulse at the groin on the left side
- Duplex ultrasound: complete occlusion of the left SFA
- CT angiography: bilateral SFA occlusion, with more blockage on the left than the right

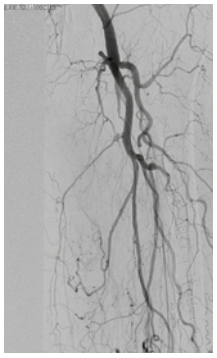

Figure 1. Pre-procedural angiography

Treatment

- Complete left SFA occlusion demonstrated by pre-procedural angiography (Fig. 1)
- Bard™ Crosser™ established access into the true lumen
- EKOS™ device (24-cm treatment length, 106cm working length) placed in the left SFA
- rtPA infused using the EKOS™ device at 1.0 mg/hr

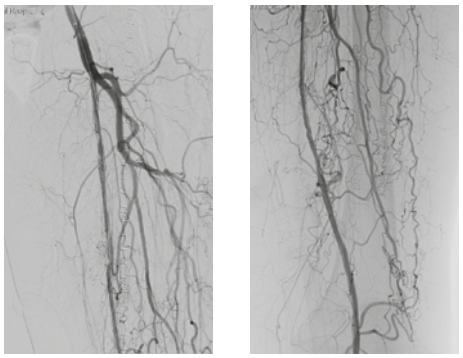

Figure 2. Post-EKOS™ angiography

Results

Following 10 hours of rtPA infusion

- False negative angiographic result attributed to placement of the EKOS™ device which obstructed inflow at the ostial SFA
- Following removal of the EKOS™ device, angiography demonstrated patency and brisk flow in the SFA from the proximal to the popliteal region (Fig. 2)
- Thrombus resolution revealed regions of atherosclerotic lesions (Fig. 2)
- Adjunctive balloon angioplasty followed by stenting with Bard™ LifeStents™ resulted in excellent outcome with reduced filling of the collaterals (Fig. 3)

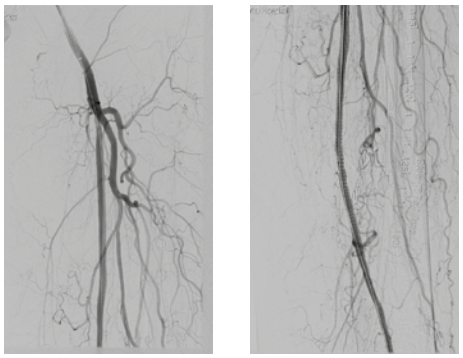

Figure 3. Completion angiography

Conclusion

- Substantial thrombotic content was present in the chronic SFA occlusion
- EKOS™ therapy successfully resolved the thrombosed segments, allowing restoration of blood flow and identification of the culprit lesions for simplified atherosclerotic treatment of blood flow and identification of the culprit lesions for simplified atherosclerotic treatment

"Given the age and volume of the clot, I was impressed with the level of clearance we achieved with the EKOS™ device."

– Justin A. Robinson, MD

Imagine where we can go.

BTG

btg-im.com