

# Treating a Long Lesion with a Single Spur® Stent System

### **CASE HISTORY**

A 72-year-old male with a history of Type II diabetes, hypertension, hyperlipidemia, tobacco use, coronary artery disease, congestive heart failure, and a previous amputation presented as a Rutherford Class 4, with no wounds at the time of enrollment. Baseline Ankle Brachial Index (ABI) and Toe Brachial Index (TBI) were non-compressible.

### **Baseline Imaging**

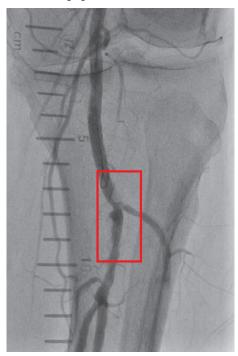


Figure 1

## **PROCEDURE**

Baseline angiography showed non-significant stenosis of the inflow vessels and significant disease in the below-the-knee vessels. A 40 mm long lesion (fig. 1) in the tibioperoneal trunk (TPT) and a 170 mm long lesion (fig. 2) in the posterior tibial (PT) artery were treated with the Spur Peripheral Retrievable Stent System after lesion predilatation.

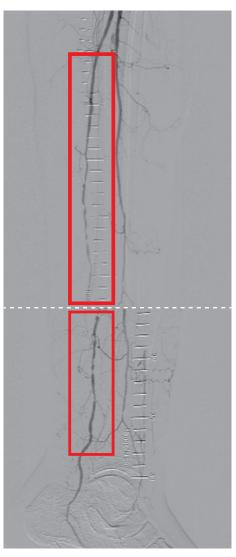


Figure 2

# **PHYSICIAN**



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"The ability to treat a 170 mm lesion with a single Spur Stent System, with sustained patency at 12 months, while leaving nothing behind, is truly unique."

Dr. Ahmed attended medical school at the University of Khartoum, Sudan and completed his residency and cardiovascular fellowship at Pennsylvania State University in Hershey, PA. He finished his interventional cardiology fellowship at the University of Connecticut. Dr. Ahmed is board certified by the American Board of Internal Medicine.

### **PRODUCTS USED**

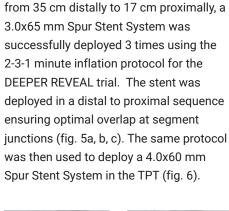




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Quantitative vessel analysis (QVA) showed significant calcium in the TPT lesion caused by a 50% stenosis and revealed diffuse disease in the PT artery, with a 77% stenosis. The reference vessel diameters measured 4 mm and 3 mm respectively.

A .014" guidewire was advanced down the posterior tibial artery. For predilatation, a 4.0x60 mm balloon was inflated in the TPT with a waist (fig. 3a). With significant residual stenosis in the TPT (fig. 3b), an additional 4.0x20 mm non-compliant balloon was inflated.



To cover the 170 mm PT lesion extending

Final angiography of both lesions (fig. 7a and 7b) resulted in <30% stenosis by visual estimate on angiography. By QVA, a final residual stenosis of 23% was seen in the TPT and 12% in PT.





Figure 7a

Figure 7b



Figure 3a



Figure 3b

A 3.0x150 mm balloon was used to predilate the 170 mm lesion in the posterior tibial. Post predilatation yielded <50% stenosis

on angiogram (fig. 4a and 4b).

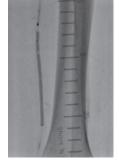


Figure 5a



Figure 5b

# **CASE CONCLUSION**

At 12 months, duplex ultrasound confirmed patency in both lesions. Subsequent evaluation revealed an ABI of 1.15 and a TBI of 0.91, both falling within normal limits.



Figure 5c



Figure 6

Figure 4a



Figure 4b