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Infrapopliteal Stenosis Requiring Proximal and Distal Approach

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Infrapopliteal Stenosis Requiring Proximal and Distal Approach

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Case Presentation:

- 64 year-old male with a history of bilateral iliac stenting and severe bilateral lower extremity claudication originally presented for pre-operative clearance for femoral-popliteal bypass surgery.
- Severe aortic stenosis with preserved left ventricular ejection fraction was discovered.
- Due to the prohibitive operative risk, percutaneous peripheral revascularization was elected.

Peripheral Angiography:

- Peripheral angiography revealed 100% left infrapopliteal stenosis and 60% left anterior tibial stenosis with vessel reconstitution.
- Atherectomy was attempted on the popliteal lesion via a left femoral (antegrade) approach, however a wire was unable to cross.
- A second distal pedal access was obtained via the left anterior tibial artery with exteriorization of the wire via the femoral sheath.
- An orbital atherectomy device was then advanced via the femoral site and atherectomy performed on the infrapopliteal lesion with subsequent balloon angioplasty. Brisk flow was restored.

Conclusion:

 We believe that entertaining distal access to a lesion unable to be accessed otherwise and exteriorization via a proximal access represents a novel approach to treating peripheral arterial disease.



Figure 1.

Peripheral Angiography
Demonstrating Total
Infrapopliteal Occlusion
without distal flow.

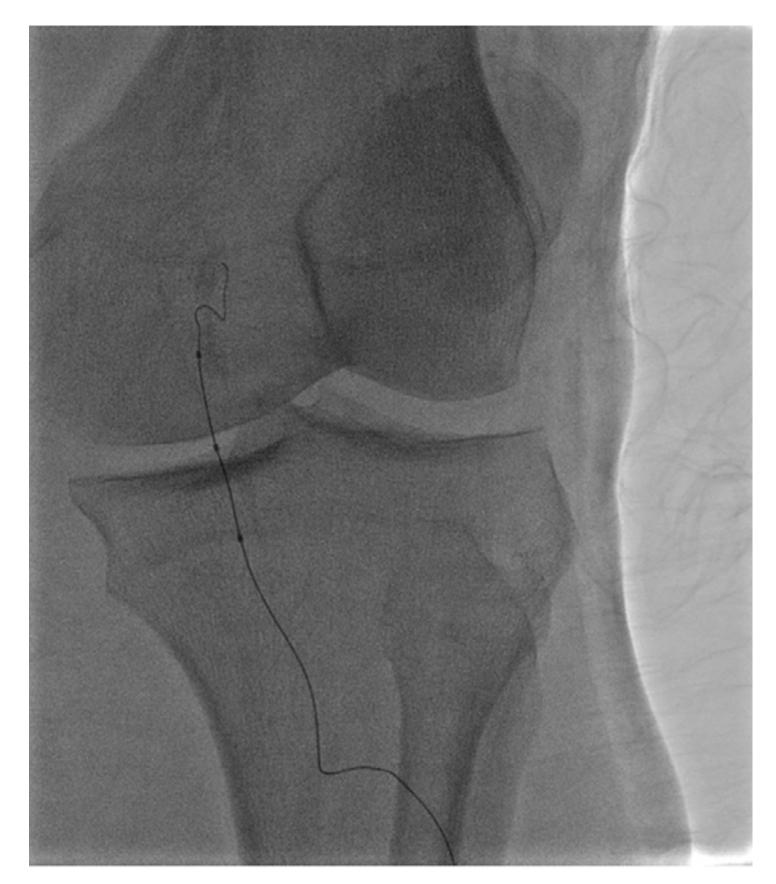


Figure 3.

A wire is advanced through a distal pedal access with difficulty crossing the stenosis.

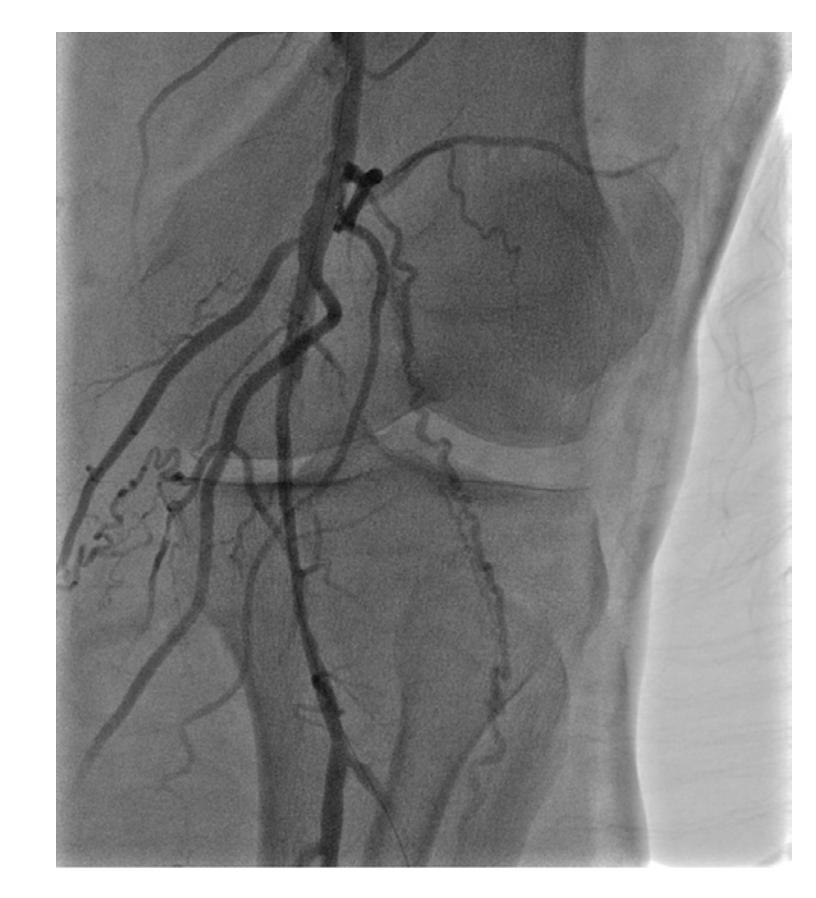


Figure 5.

Demonstration of a second lesion in the anterior tibial artery



Figure 2.

A Diamondback Catheter advanced through femoral access is unable to cross the infrapopliteal lesion.



Figure 4.

The distally advanced wire is exteriorized via the proximal sheath.

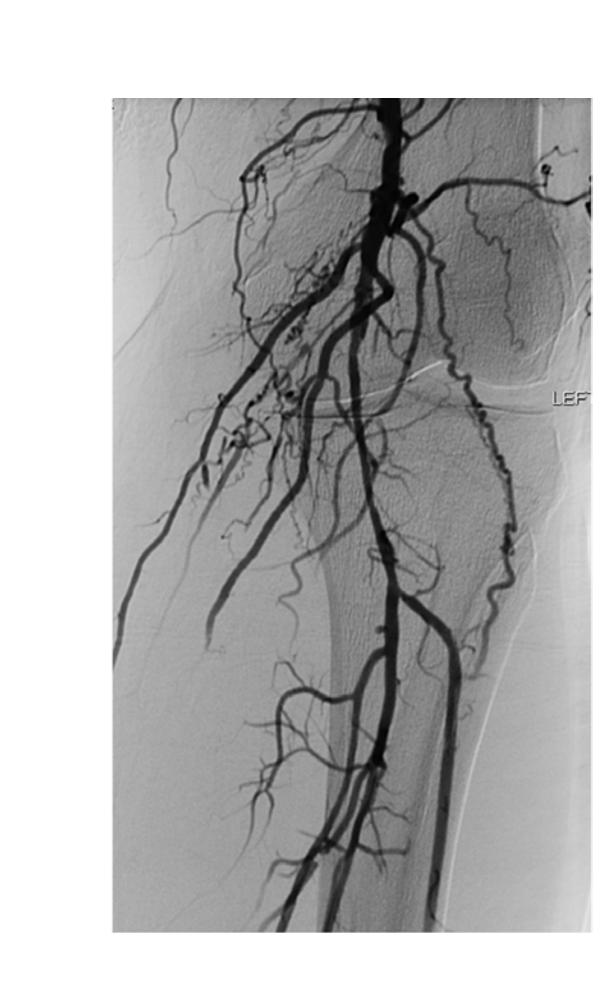


Figure 6.

Final result demonstrating brisk flow in the popliteal and anterior tibial arteries.



Conflict of Interest: No relevant disclosures for this presentation.

