Technique for pedal access and pedal loop interventions

Technique d'abord pédieux et intervention en boucle

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I disclose the following financial relationships:

**Consultant** for Abbott, Medtronic, Boston Scientific

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Pedal access and pedal loop interventions

Why pedal access?
Retrograde pedal puncture
Why pedal access?

The retrograde pedal access (or posterior tibial access) is essential when it is impossible or dangerous to gain the true distal lumen from the antegrade approach.

Always respect the “landing zone” of a future possible distal surgical bypass!!!
Pedal access and pedal loop interventions

Why pedal access?

When pedal loop technique?

1. To improve the forefoot distribution system when there is a diffuse foot vessel disease
• Male, 75 yy
• Type 2 DM
• Forefoot gangrene
Impossible to open PT neither antegradely nor retrogradely
• Proximal open TMA with accurate sparing of pedal-plantar loop vessel
• Bone coverage by Hyalomatrix application
• Skin graft
1. To improve the forefoot distribution system when there is a foot vessel disease

The pedal-plantar loop technique is a good option to improve blood flow to the forefoot when there is a diffuse foot vessel disease.

Why pedal access?

When pedal loop technique?
Pedal access and pedal loop interventions

Why pedal access?

1. To improve the forefoot distribution system when there is a foot vessel disease
2. To open retrogradely the opposite tibial artery when you were unable to open it antegradely

When pedal loop technique?
Pedal-plantar loop technique + retrograde subintimal approach
Pedal access and pedal loop interventions

Why pedal access?

When pedal loop technique?

1. To improve the forefoot distribution system when there is a foot vessel disease

2. To open retrogradely the opposite tibial artery when you were unable to open it antegradely

Pedal-plantar loop & retrograde puncture are the two options to cross retrogradely tibial CTOs in case of failure of antegrade approach
Pedal access and pedal loop interventions

Why pedal access?

When pedal loop technique?

1. To improve the forefoot distribution system when there is a foot vessel disease

2. To open retrogradely the opposite tibial artery when you were unable to open it antegradely

3. When it is impossible to use the pedal-plantar loop technique
“Plantar-loop” technique: impossible

The lateral plantar artery, through plantar arch, is the dominant artery of the foot.
“Plantar-loop” technique: impossible

Absence of plantar arch
“Plantar-loop” technique: impossible
Every patient is different!
Pedal access and pedal loop interventions

Why pedal access?

When pedal loop technique?

1. To improve the forefoot distribution system when there is a foot vessel disease

   We must adapt our revascularization strategy to the real vascular pattern of the patient. We must follow the anatomy because the anatomy cannot follow us!!!

   antegradely

2. To open retrogradely the opposite tibial artery when you were unable to open it antegradely

3. When it is impossible to use the pedal-plantar loop technique