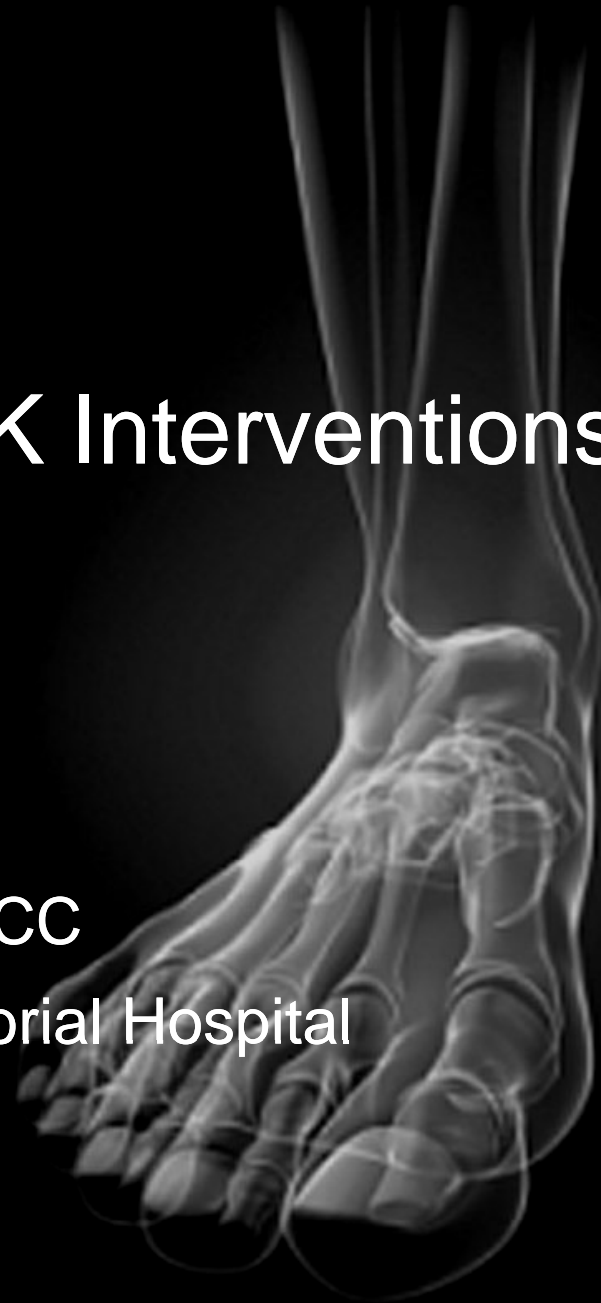


TCTAP 2012, Seoul – Apr. 25-27, 2012

Case Presentation

Challenging Cases of BTK Interventions

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Disclosure statement

Kazushi Urasawa, MD, PhD

I disclose the following financial relationships:

Consultant for

JJ Cordis Endovascular
Kaneka
Asahi Intech
Tokai Medical
Photoron



A key concept in BTK intervention

Catheterization and Cardiovascular Interventions 75:830–836 (2010)

Importance of the **Angiosome Concept** for Endovascular Therapy in Patients with Critical Limb Ischemia

Osamu Iida,¹ MD, Shinsuke Nanto,^{2*} MD, PhD, Masaaki Uematsu,¹ MD, PhD,
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In order to obtain wound healing, target artery should be recanalized according to the angiosome concept.

But, in some cases, there is no wound healing even after successful EVT for the target artery.

Why? Small artery disease below the ankle level might be the cause of such unsuccessful result.



We need more aggressive vascular intervention for these patients subset.
Below-the-ankle (BTA) Intervention

Below-the-ankle Intervention

CASE

Control angiography



Tip injection from microcatheter at the end of ATA

After this angiography, I tried antegrade wiring to the DP-CTO, but the wire advanced into sub-space.



Tip injection within a collateral channel to the DP



A guidewire was advanced within the collateral

Cruise 0.014" &
Prominent mcro-cathe



Retrograde wire crossed the CTO segment of DP



Wire Rendez vous

Retrograde guidewire was advanced into the antegrade micro-cathe.

Antegrade micro-cathe was advanced beyond the CTO lesion. The retro wire was removed, then ante wire was inserted within the antegrade micro-cathe.



Advance guidewire to pedal artery



Balloon dilatation of DP / distal ATA



Final angiography



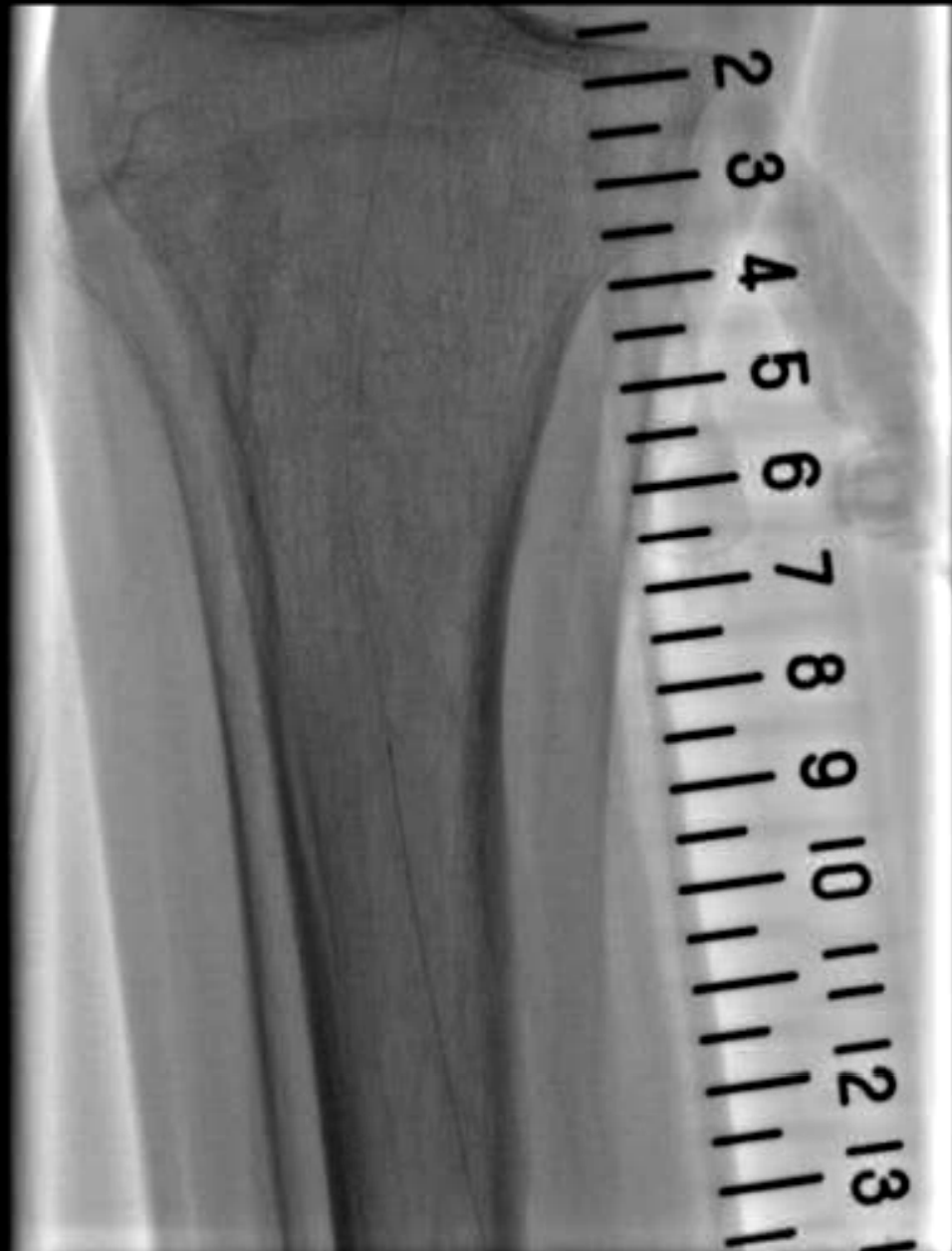
Below-the-ankle Intervention

EXTREME CASE

Control angiography



Antegrade wiring to PTA : Perforation !



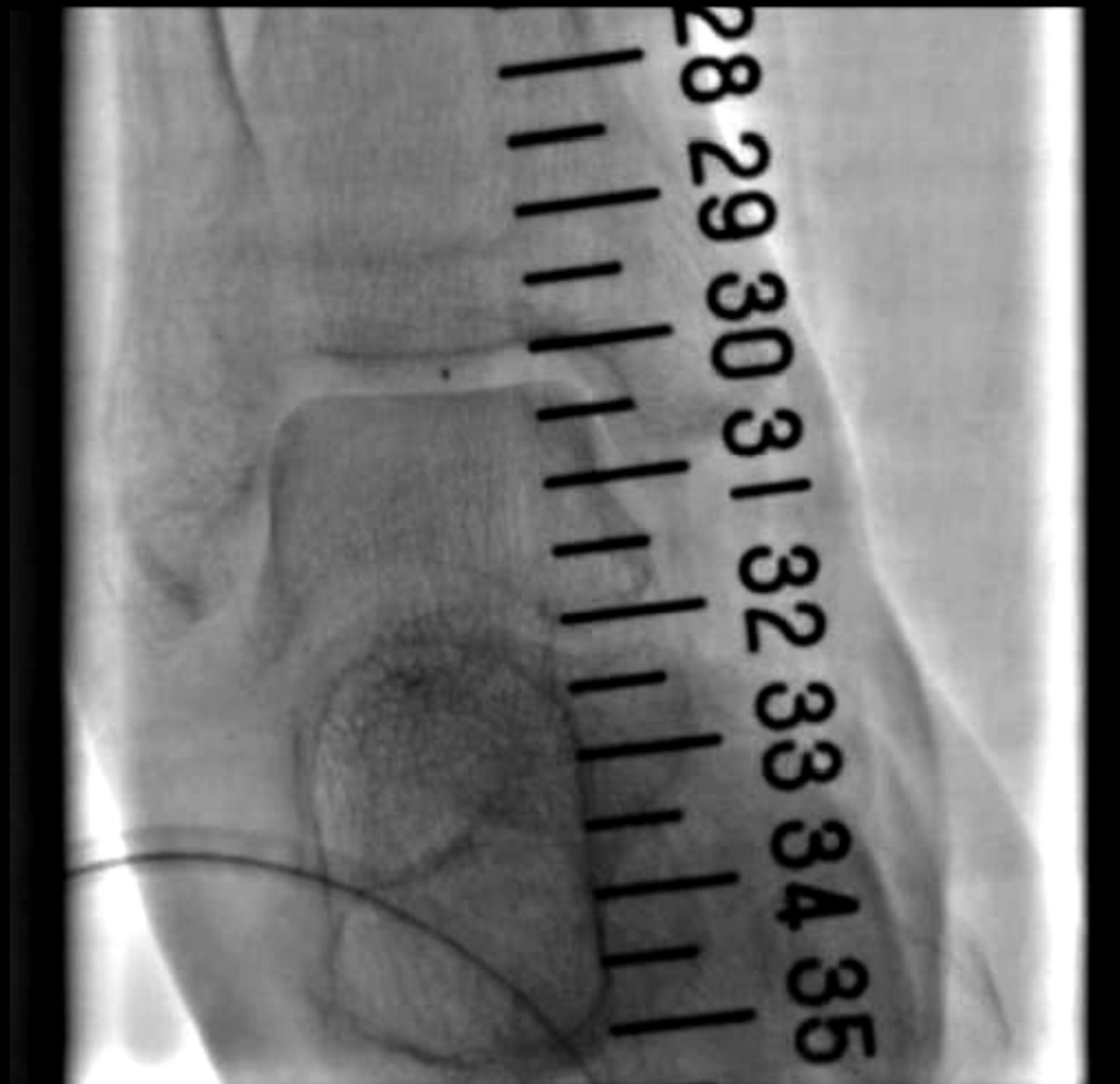
Tip injection from microcatheter at the end of PA



Tip injection at another branch of PA



Tip injection within the collateral channel



Tip injection within the collateral channel



Tip injection within the collateral channel



Exchange microcatheter from Prominent to Corsair



Advance a guidewire to PTA retrogradely



Advance a guidewire to PTA retrogradely



Final angiography



Take Home Message

In certain subset of CLI patients, more aggressive revascularization is required to obtain complete wound healing.

Be aggressive !

Let's try BTA intervention !