#### Morning Roundtable Forum: Meet the Experts over Breakfast

# Customized Approach to Lesions: Trans-collateral Approaches and other novel methods

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#### Wiring techniques for BTK-CTO

#### 1. Antegrade wiring

Tactile sensation-guided wiring

Duplex echo-guided wiring

Knuckle wire technique

#### 2. Bi-directional wiring with distal puncture

**Dorsalis Pedis** 

distal ATA

distal PTA

distal PA

Digital arteries (Yubi-pan)

Plantar artery (Soko-pan)

#### 3. Bi-directional wiring using collateral channel

Trans-collateral angioplasty (TCA)

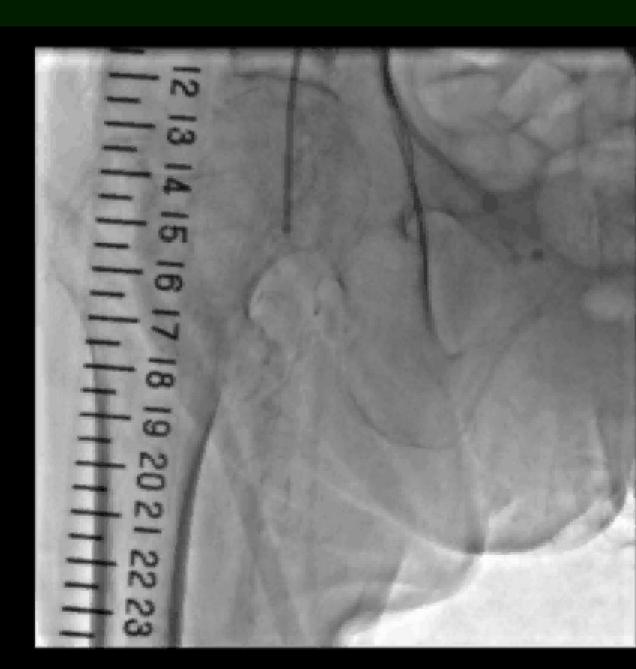
Trans-pedal arch angioplasty (TPA)

# Distal peroneal artery puncture

#### **Control Angiography**

Ispi-lateral puncture 4.5F Parent-Plus (Medikit)



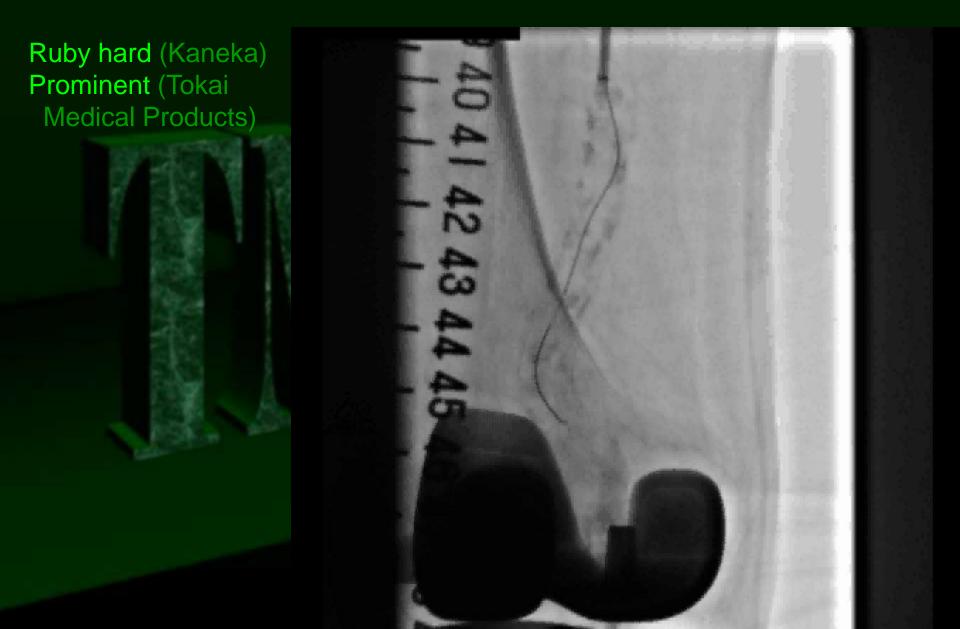


# Cardiovascular Center – Tokeidai Memorial Hospital – Sapporo, Japan Control angiography (around knee joint)





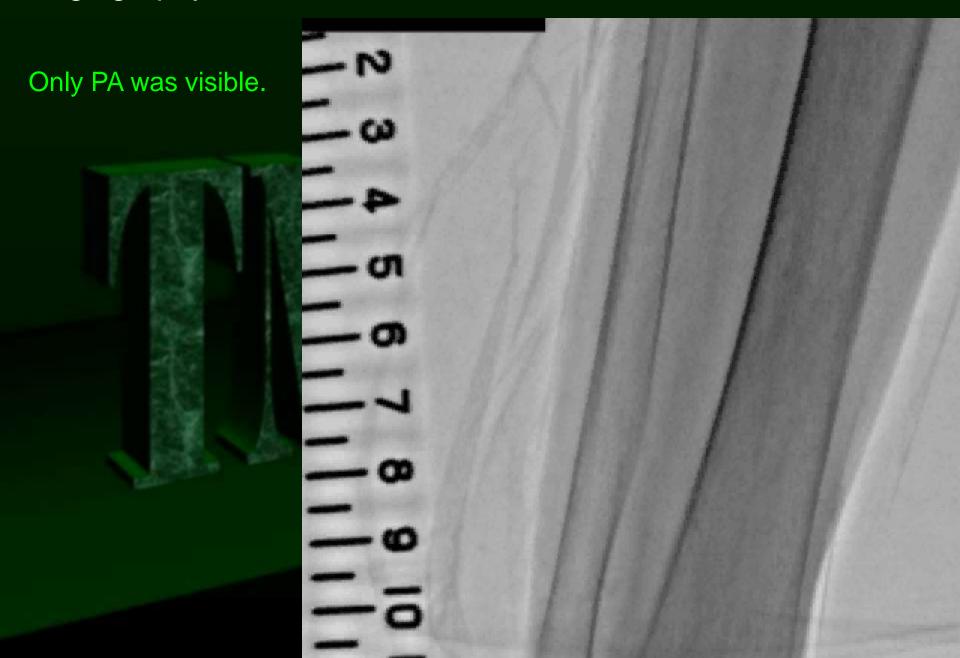
#### Antegrade wiring to the POP lesion



#### DSA of BTK area



#### Angiography of distal BTK area



#### Distal puncture

Distal PA was punctured using 20G puncture needle.





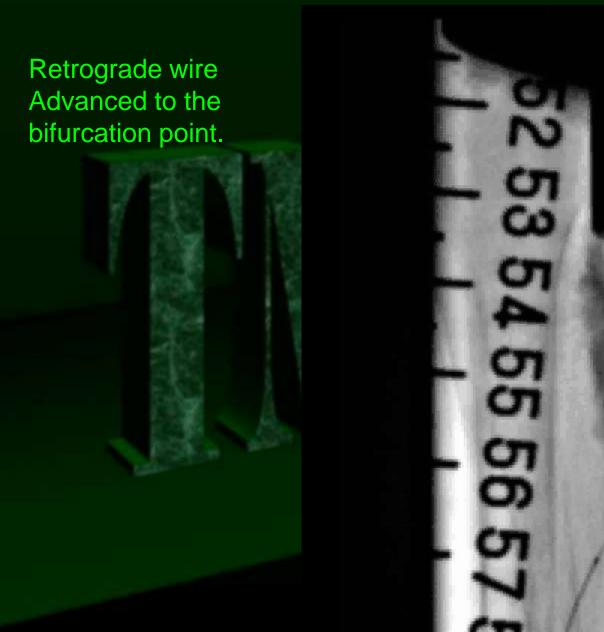
#### Retrograde wiring

Cruise was advanced. Prominent was used as a sheath.





#### Bi-directional wiring





#### Bi-directional wiring





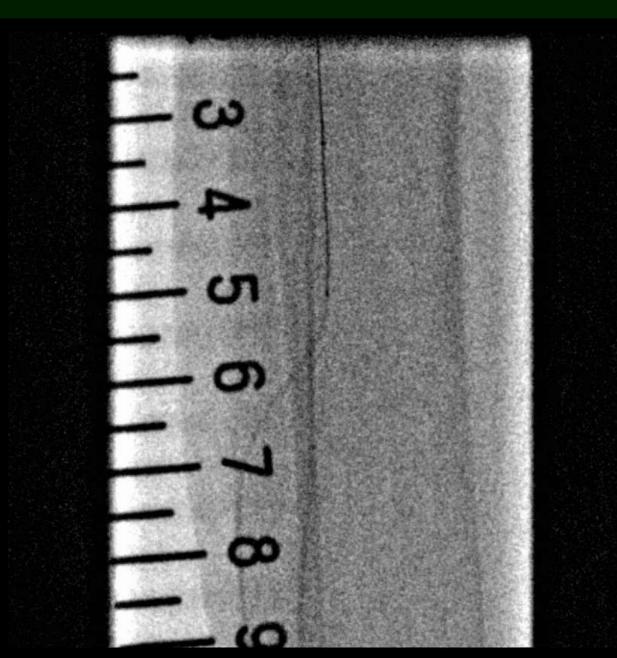
#### Wire Rendez-vous

Antegrade Ruby hard advanced into the retrograde Prominent.

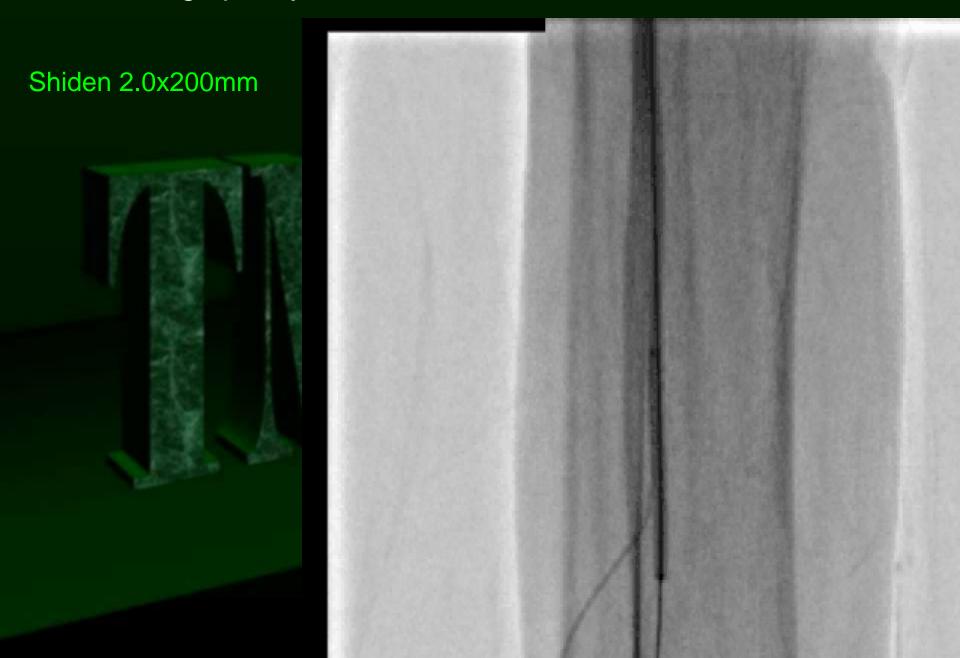


#### Antegrade wire was redirect to the distal PA

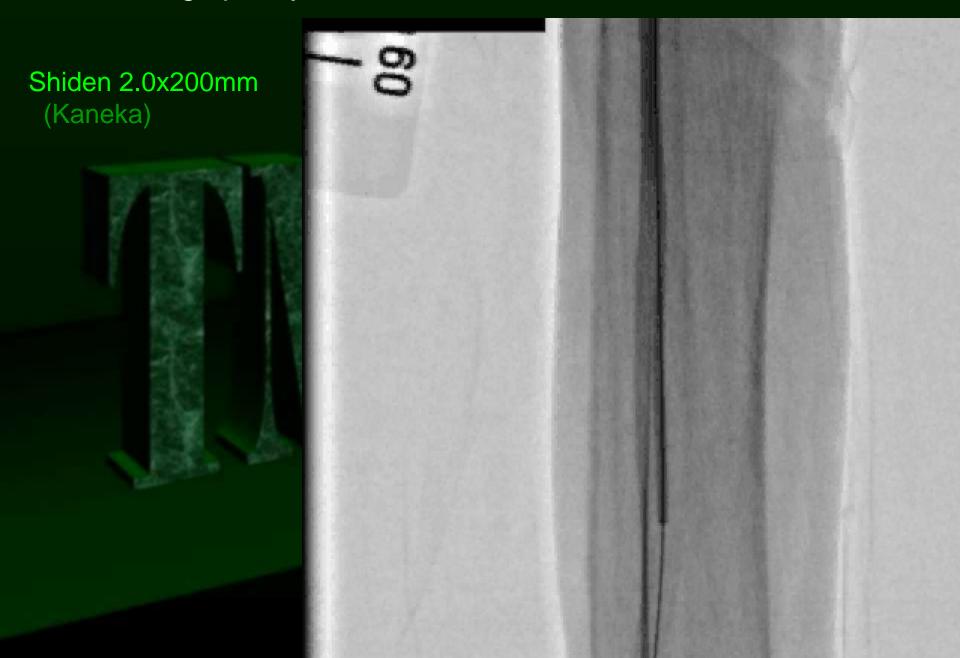




# Balloon angioplasty for POP-PA lesion & hemostasis

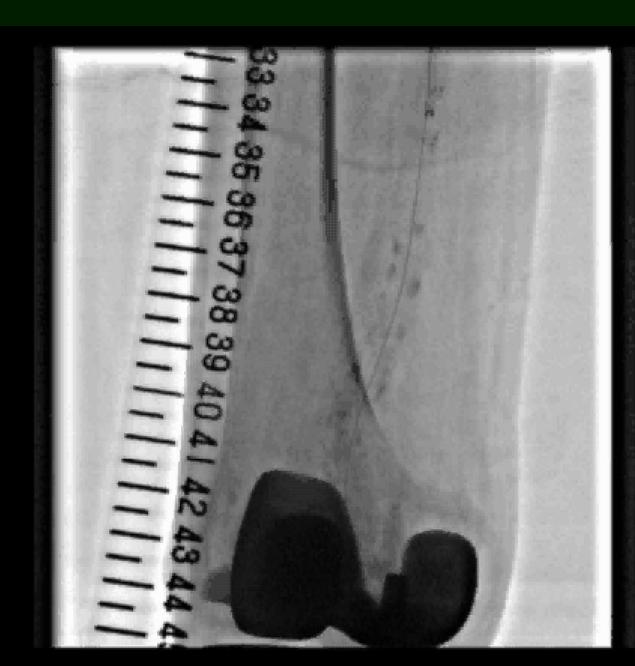


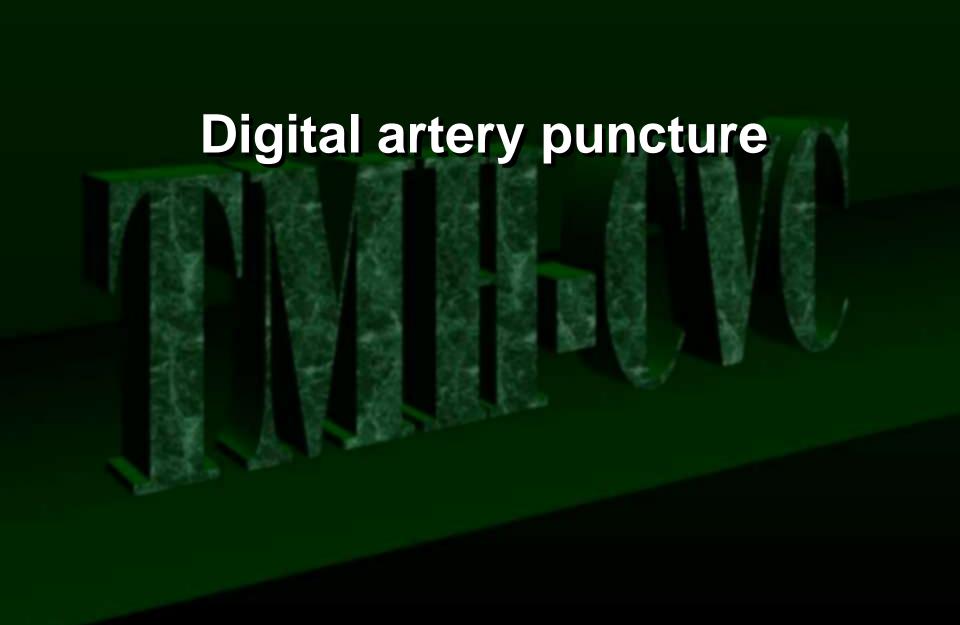
#### Balloon angioplasty



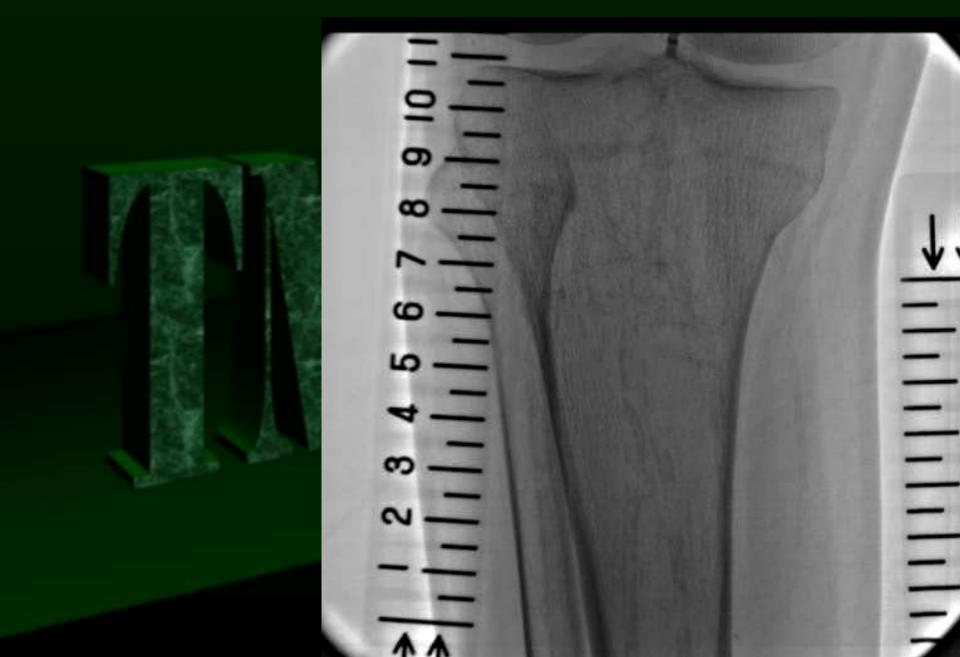
#### Final angiography



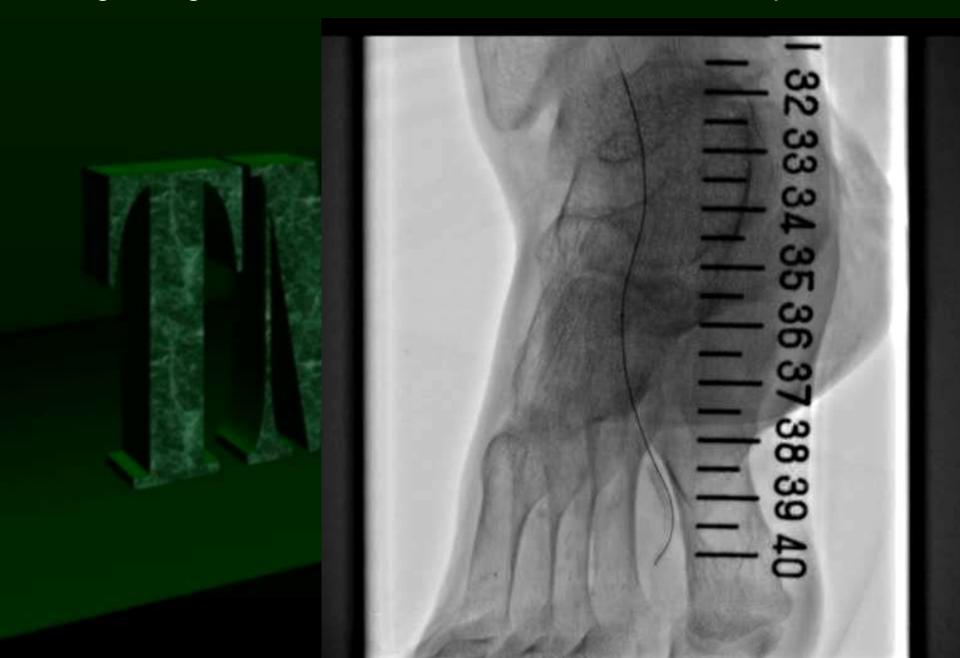




#### **Control Angiography**



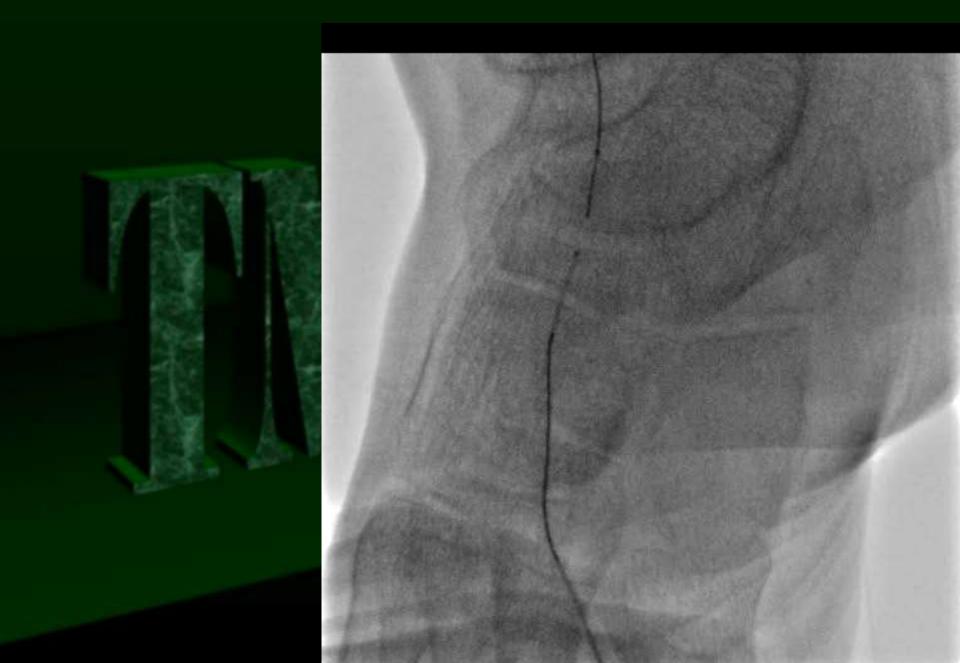
#### Antegrade guidewire advanced into the sub-intimal space



### Digital artery puncture and advance a retrograde guidewire



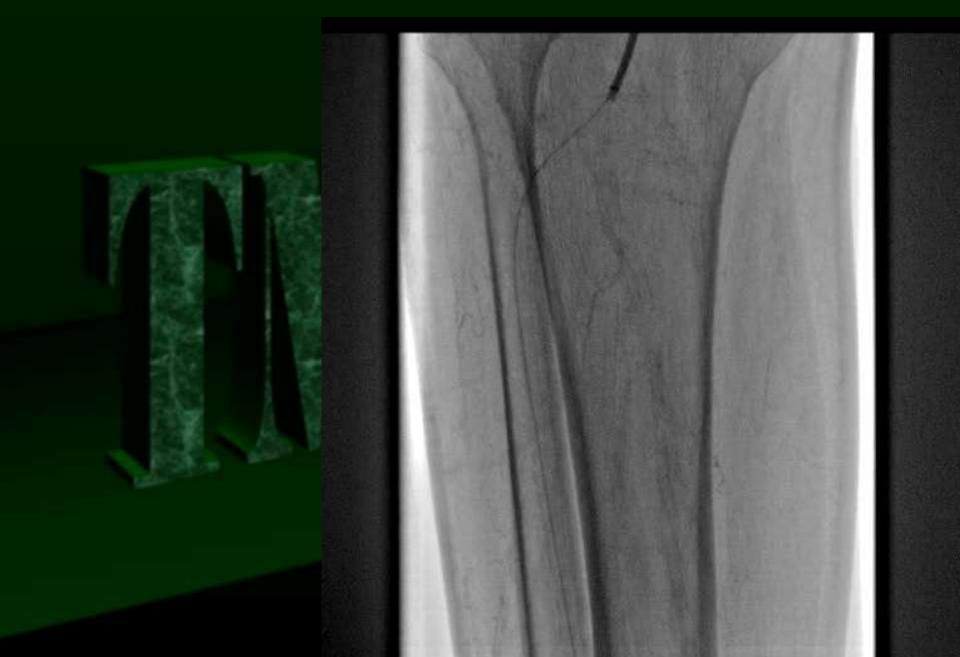
#### Wire Rendez-vous Method



#### Balloon angioplasty of DP and ATA



#### Final Angiography



#### Outcome of EVT for CLI patients in TMH-CVC

2010.1.1 ~ 2011.12.31

109 CLI cases

Male 73 / Female 36 /  $75\pm11$  y

137 Limbs

## Not bad at all!

Limb salvage rate = 96%

Amputation-free survival at 1 year = 83%

Cause of death at 1st year (19 case)

Cardiac event 4 cases
Infection 6 cases

MOF 5 cases

Cerebral infarction 2 cases

SMA obstruction 1 case

Sudden death 1 case

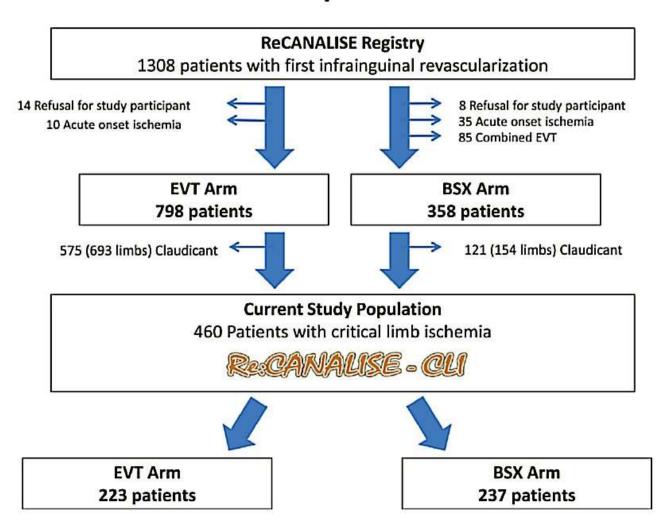


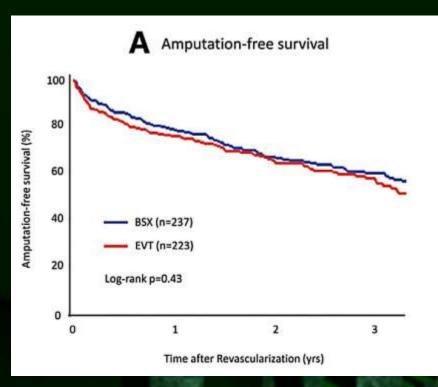
Circulation Journal
Official Journal of the Japanese Circulation Society
http://www.j-circ.or.jp

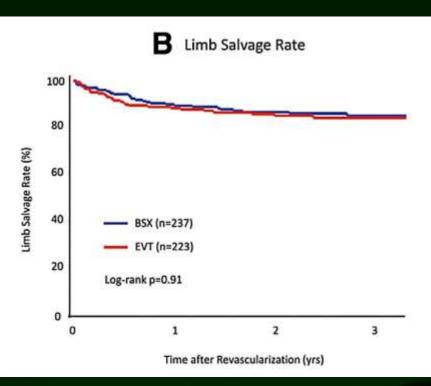
# Comparison of Clinical Outcome After Bypass Surgery vs. Endovascular Therapy for Infrainguinal Artery Disease in Patients With Critical Limb Ischemia

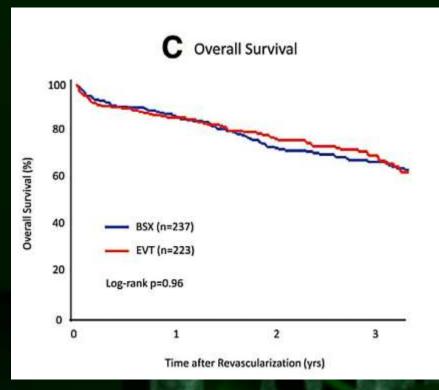
Yoshimitsu Soga, MD; Shinsuke Mii, MD; Hideaki Aihara, MD; Jin Okazaki, MD; Sosei Kuma, MD; Terutoshi Yamaoka, MD; Daisuke Kamoi, MD; Yoshiaki Shintani, MD; Toshinobu Ishikawa, MD on behalf of ReCANALISE Investigators

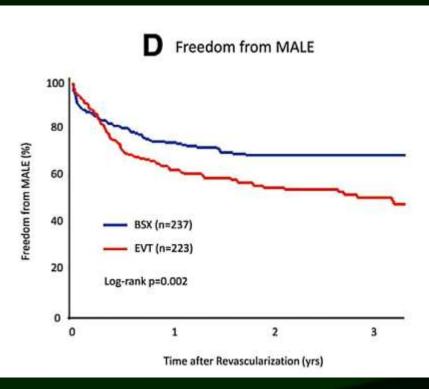
#### **Participant Flow**











#### **Take Home Message**

Owing to the recent progress of device technology, endovascular therapy has shown acceptable limb salvage rate and amputation free survival in CLI patients compared with distal bypass surgery.

Up-coming drug eluting technology and several debulking devices might further improve the log-term outcome of EVT in the treatment of PAD.

