CCT @ LINC
Japanese Endovascular Treatment
Its Techniques and Accumulating Evidences

SFS-POP Intervention
Overview and Video Live

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Disclosure Statement

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Consulting for

Cordis, Cardinal Health
Boston Scientific Japan
Terumo
Asahi Intecc
Kaneka
Tokai Medical Products
Goodman
Future Medical Device
Medikit Japan
EVT strategies for long SFA / POP-CTO

**Antegrade wiring**

Knuckle wire technique: 0.035” Terumo Radifocus Small-J
Tactile sensation guided wiring: 0.014” CTO wires
Duplex ultrasound guided wiring: 0.014” / 0.018” CTO wires
IVUS guided wiring: 0.014” / 0.018” CTO wires
Calcium guided wiring: 0.014” / 0.018” CTO wires
Antegrade wiring

Failure

Bi-directional wiring
Techniques for bi-directional wiring

**Trans-collateral wiring (TCA)**

- Frontal puncture of distal femoral artery *(Omote-pan)*
- Side puncture of popliteal artery *(Yoko-pan)*
- Frontal popliteal puncture *(Omote hiza-pan)*
- Frontal inside popliteal puncture *(Omote hiza-pan2)*
- Hi tibial puncture
- Peroneal puncture

2007
Advance micro-catheter / 0.014” guidewire to a collateral channel, Injected contrast.
Advance guidewire to distal SFA / POP.
Tip injection
Retrograde wiring
Chevalier floppy
0.014” with Corsair
Final angiography
Techniques for bi-directional wiring

- Trans-collateral wiring (TCA)
- Frontal puncture of distal femoral artery (Omote-pan)
- Side puncture of popliteal artery (Yoko-pan)
- Frontal popliteal puncture (Omote hiza-pan)
- Frontal inside popliteal puncture (Omote hiza-pan2)
- Hi tibial puncture
- Peroneal puncture

2009
Control Angiography
Direct puncture of distal SFA (Omote-pan)
Techniques for bi-directional wiring

- Trans-collateral wiring (TCA)
- Frontal puncture of distal femoral artery (Omote-pan)
- Side puncture of popliteal artery (Yoko-pan)
- Frontal popliteal puncture (Omote hiza-pan)
- Frontal inside popliteal puncture (Omote hiza-pan2)
- Hi tibial puncture
- Peroneal puncture

2011
Front puncture

30°

45°
Side puncture

45°

70-90°
Level of front punc.

Level of side punc.

Depth of artery

Needle angle

- 2 ~ 3 cm: 45°
- 6 ~ 7 cm: 70 ~ 90°
Control angiography
Antegrade wiring using Radifocus wire
Side puncture using 18G metal needle
Retrograde wiring via 18G needle
Wire Rendez-vous for antegrade 4F catheter
Advance the catheter beyond CTO
Advance another guidewire via 4F catheter
POBA and simultaneous hemostasis
Final angiography
Techniques for bi-directional wiring

Trans-collateral wiring (TCA)
Frontal puncture of distal femoral artery (Omote-pan)
Side puncture of popliteal artery (Yoko-pan)
Frontal popliteal puncture (Omote hiza-pan)
Frontal inside popliteal puncture (Omote hiza-pan2)
Hi tibial puncture
Peroneal puncture

2013
Techniques for bi-directional wiring

- Trans-collateral wiring (TCA)
- Frontal puncture of distal femoral artery (Omote-pan)
- Side puncture of popliteal artery (Yoko-pan)
- Frontal popliteal puncture (Omote hiza-pan)
- Frontal inside popliteal puncture (Omote hiza-pan2)
- Hi tibial puncture
- Peroneal puncture

2015
Techniques for bi-directional wiring

Trans-collateral wiring (TCA)
Frontal puncture of distal femoral artery (Omote-pan)
Side puncture of popliteal artery (Yoko-pan)
Frontal popliteal puncture (Omote hiza-pan)
Frontal inside popliteal puncture (Omote hiza-pan2)
Hi tibial puncture
Peroneal puncture

2011
Techniques for bi-directional wiring

- Trans-collateral wiring (TCA)
- Frontal puncture of distal femoral artery (Omote-pan)
- Side puncture of popliteal artery (Yoko-pan)
- Frontal popliteal puncture (Omote hiza-pan)
- Frontal inside popliteal puncture (Omote hiza-pan2)
- Hi tibial puncture

Peroneal puncture

2011
Techniques for Femoropoplitial CTO

Antegrade wiring
- Knuckle wire
- Tactile sensation-guided
- Duplex-guided
- IVUS-guided
- Calcium-guided
- Poorman’s Outback Method (POB)

Bi-directional wiring
- Trans-collateral wiring (TCA)
- Frontal puncture of distal femoral artery (Omote-pan)
- Side puncture of popliteal artery (Yoko-pan)
- Frontal popliteal puncture (Omote hiza-pan)
- Frontal inside popliteal puncture (Omote hiza-pan2)
- Hi tibial puncture
- Peroneal puncture
- DP puncture
Take Home Message

More options,
better initial outcome
Recorded Video Live
Fighting for Limb salvage