

SFA

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Percutaneous transluminal angioplasty (PTA) is a mainstay in the management of patients with peripheral artery disease (PAD) and critical limb ischemia (CLI). I would summarize currently available devices, tips and tricks for PTA, particularly for young interventionists.

A. Supporting catheters or microcatheters

1. Angiocatheter support (4 or 5 F)
 - ; 5F Multipurpose-1 catheter or 4F Glide catheter (for 018 CTO wiring with introducer to prevent blood leakage)
2. Micorcatherther support (018 or 014)
 - ; CXI (018) or CXC (Cook), Rubicon (Boston), Trailblazer (Covidien)

B. Wires

Guidewires for PAD intervention available in Korea

	Abbott	Asahi	Boston	Cook	Medtronic /Covidien	Cordis
014 wire	Command <u>Command ES(3.5g)</u> <u>Win 40(4.8g), 80(9.7g), 200T(13g)</u>	Regalia XS <u>Astato XS(20g)</u>	Journey Fathom-14 <u>V-14(3g, 6g)</u> <u>Victory 014 (12g, 18g)</u>	HydroST <u>Approach CTO (6, 12, 18, 25g)</u>	Skipper deep Nitrex	
018 wire	Connect <u>Connect Flex (12g)</u> <u>Connect 250T (30g)</u>	Treasure Floppy <u>Treasure(12g)</u> <u>Astato (30g)</u>	Fathom-16 <u>V-18(6g,8g)</u> <u>Victory 018 (25g, 30g)</u>			SV-5

* Underline; CTO wires

C. CTO Devices

; Frontrunner (Cordis), TruePath (Boston), Viance Crossing Catheter (Medtronic)

D. Plaque modification/Debulking Devices

1. Cutting balloon (Boston)
2. Scoring Balloon; AngioSculpt (Spectranetics)
or NSE balloon (Goodman)--pending
3. Directional Atherectomy Device
; Silverhawk, Turbohawk, HawkOne (Covidien)
4. Jetstream (Boston)
5. Laser Atherectomy (Spectranetics); Turbo-Elite

E. Reentry Devices

; Outback catheter (Cordis), Offroad (Boston), Enteer catheter(Medtronic)

F. Balloons for PTA

	014	018	035
Abbott	Armada14	Fox cross	Armada35
Boston	Coyote (M)		<u>Mustang (NC)</u>
Cook	Advance 14 (M)	Advance 18	Advance 35
Cordis	Sleek (M)	Savvy	PowerFlex
Medtronic	Amphirion (M)		<u>InPact (DCB)</u>
Covidien	Nanocross		Evercross
Biotronik	Passeo 14	Passeo 18 <u>Passeo-18 Lux (DCB)</u>	Passeo 35, <u>Passeo 35-HP (NC)</u>
Bard			Rival, <u>Conquest (NC)</u> <u>Lutonix (DCB)</u>

; Role of NC balloon is quite important for the calcified lesions.

G. Stents for PTA

	014/018	035	
Abbott	Xpert (SES)	Absolute Pro Supera*	Omnalink (BES)
Bard		LifeStent	
Cordis	Precise (SES)-Carotid Palmaz Blue/Genesis (BES)-Renal	<u>Smart</u>	
Gore		Viabahn (Stentgraft)	
Cook		Zilver, Zilver PTX (DES)	
Medtronic	Maris deep (SES);014 & 018 Chromis Deep (BES)	Complete SE	Scuba (BES)
Boston		Wall Stent, Epic, Inova	
Covidien		Protege	
Biotronic	Pulsar (018)	Pulsar (035)	
Terumo		Misago	

H. Retrograde Approach

1. Puncture needle
 - 1) Pedal approach; 4cm length
 - 2) Prox tibial approach; 7cm
 - 3) Distal SFA approach; 9cm
2. Supporting catheter
 - 1) Cook; CXI (018), CXC (014)
 - 2) Boston; Rubicon (018, 014), Renegade
 - 3) Covidien; Trailblazer (018, 014)
3. Retrograde Wires

; 018 (V-18, Connect, Treasure..), 014 (V-14, Command...)

4. Externalization; 4-5F JR4, Glide catheter, Microcatheter