Roberto Ferraresi Peripheral Interventional Unit

www.robertoferraresi.it



Plain Old Balloon Angioplasty (POBA) using BTK dedicated balloons

- Patient 1
- Patient 2

Bailout stenting with BTK dedicated stents

- Patient 3
- Patient 4

1. Plain Old Balloon Angioplasty (POBA) using BTK dedicated balloons

2. Bailout stenting with BTK dedicated stents

BTK dedicated balloons

- 0.014" and 0.018" OTW
- 4 Fr compatible
- Low-profile
- High trackability
- High pressure (14-20 atm)
- 1.5-6.0 mm diameter
- Long balloons (2-30 cm)
- Cylindrical and tapered

BTK dedicated balloons are the key point in BTK PTA. There are no data regarding inflation time in BTK POBA, but tradition suggests long inflation times (2-3')

J Cardiovasc Surg (Torino), 2009 Jun;50(3):365-71.

Applicability and clinical results of percutaneous transluminal angioplasty with a novel, long, conically shaped balloon dedicated for below-the knee interventions.

Gandini R, Volpi T, Pampana E, Uccioli L, Versaci F, Simonetti G.

BTK dedicated balloons

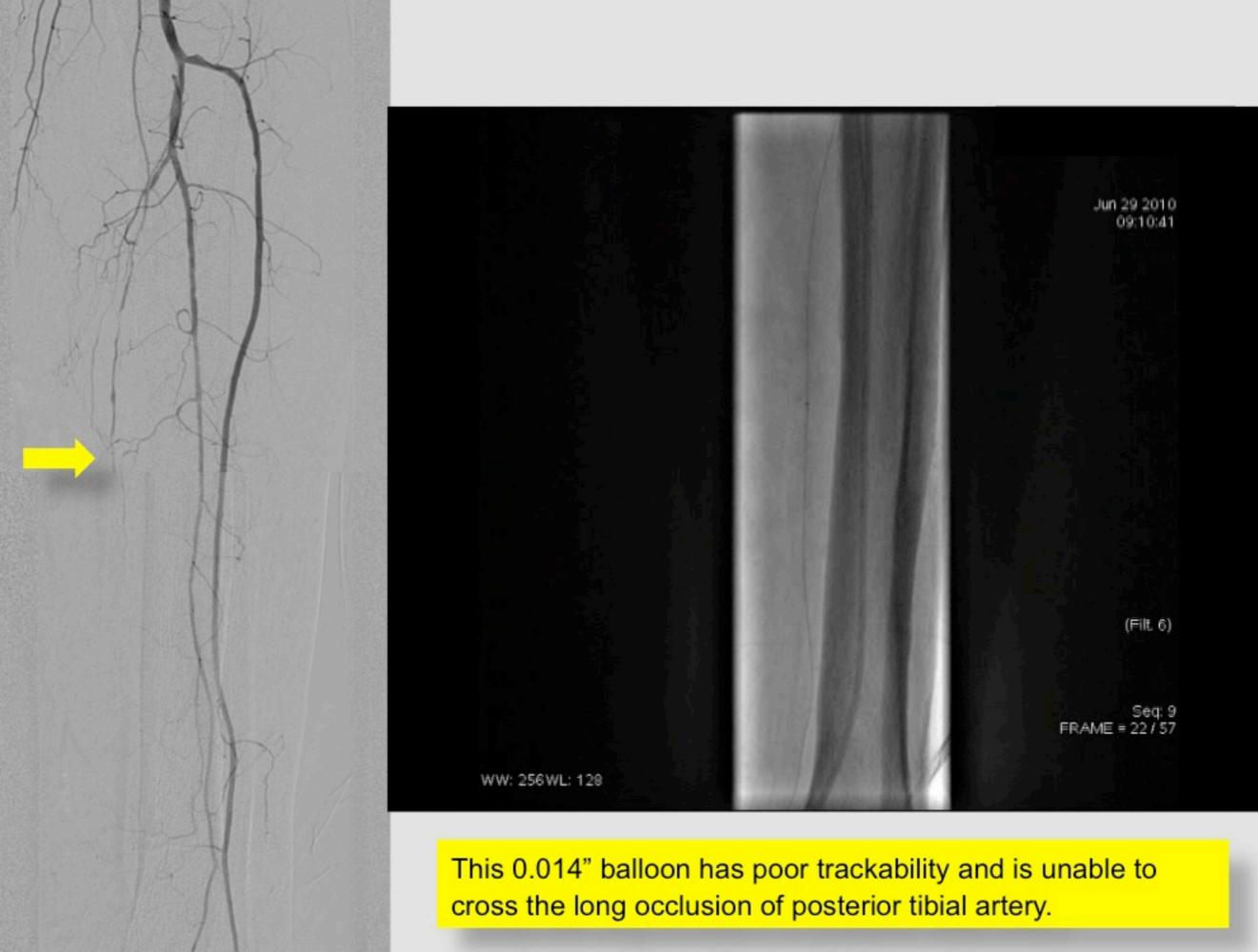
- 0.014" and 0.018" OTW
- 4 Fr compatible
- Low-profile
- High trackability
- Hugh pressure (14-20 atm)
- 1 -6.0 mm diameter
- L ng balloons (2-30 cm)
- / ylindrical and tapered

BTK dedicated alloons are the key point in BTK PTA. There are no d ta regarding inflation time in BTK POBA, but tradition s ggests long inflation times (2-3')

Trackability is essential in BTK angioplasty!

Patient 1

Long posterior tibial artery occlusion: observe the trackability of different types of balloons







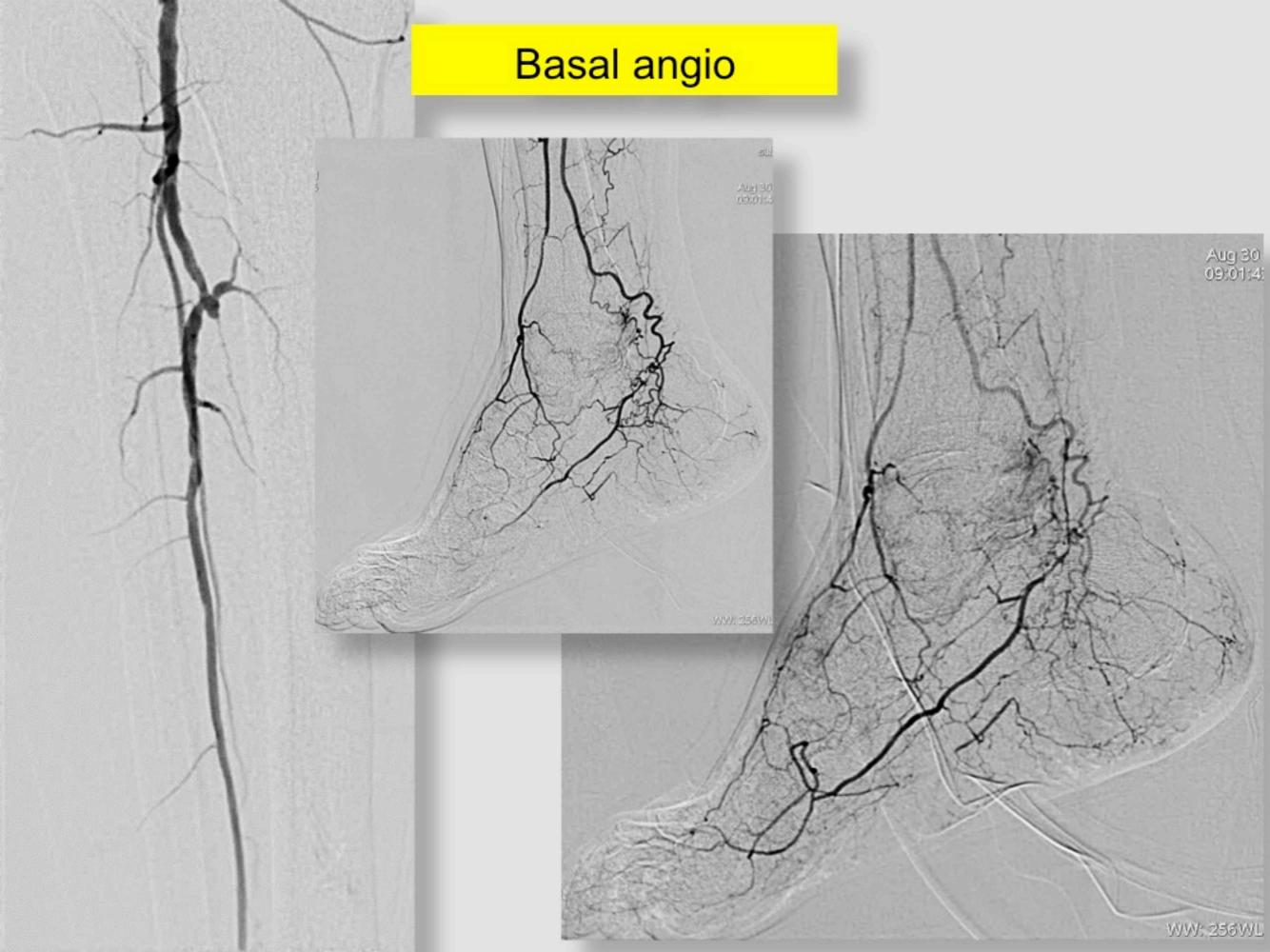
Final result



Patient 2

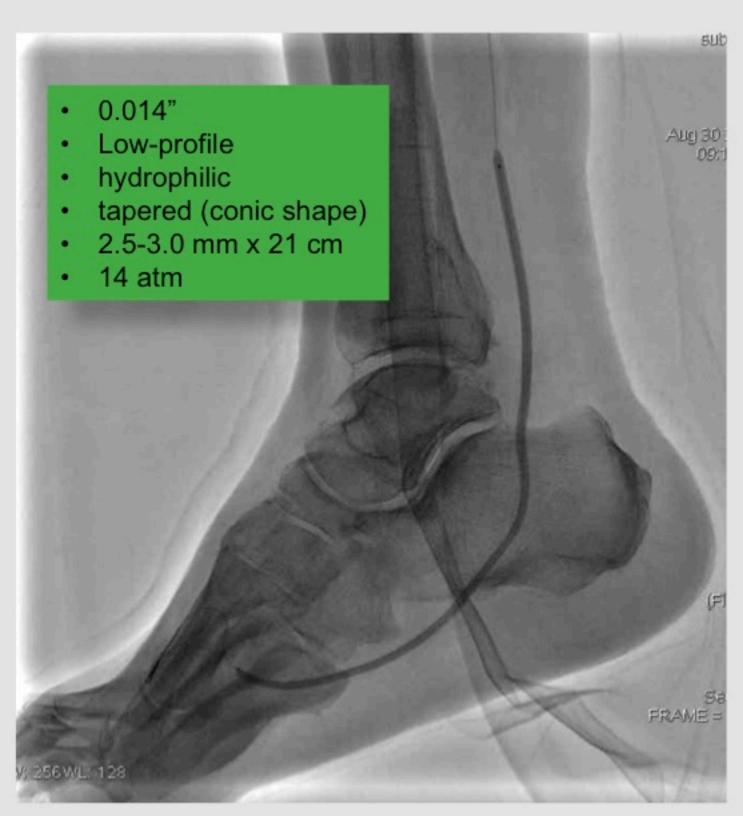
Long posterior tibial artery and lateral plantar artery occlusion

Basal angio



Treatment

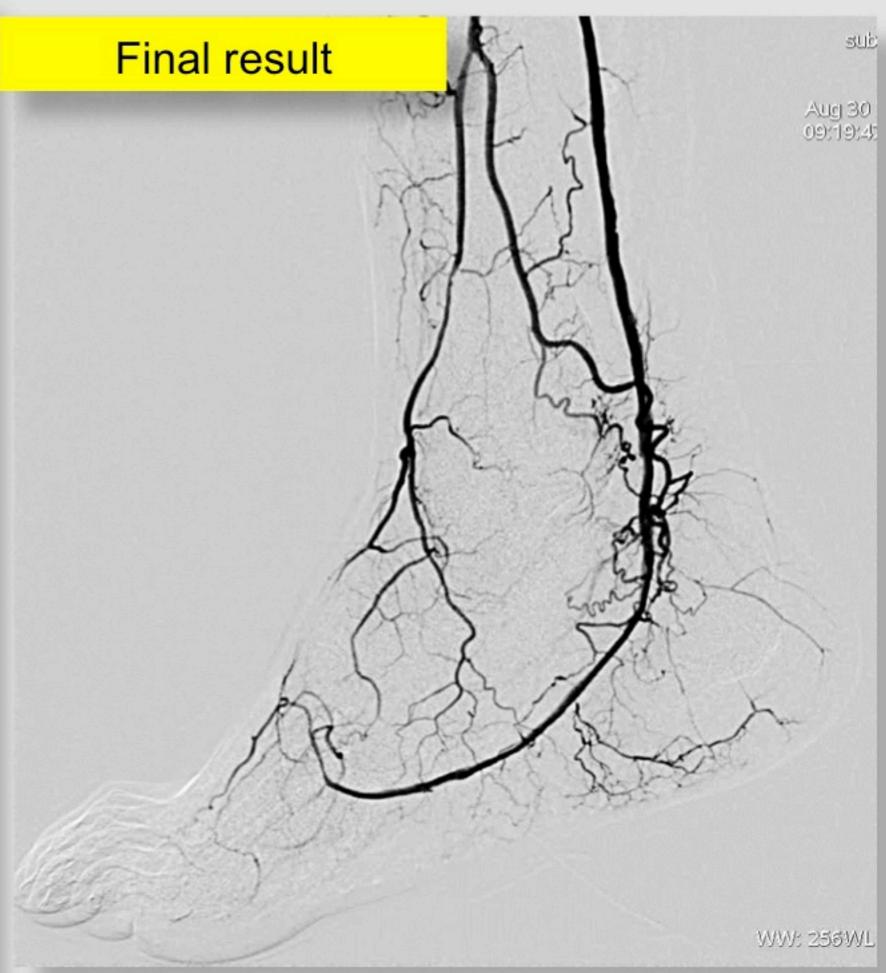
Balloon dilatation



- 0.014"
- Low-profile
- hydrophilic
- tapered (conic shape)
- 3.0-3.5 mm x 21 cm
- 14 atm

Final result





1. Plain Old Balloon Angioplasty (POBA) using BTK dedicated balloons

2. Bailout stenting with BTK dedicated stents

Bailout stenting with BTK dedicated stents

- 0.014" and 0.018" OTW & monorail
- 4 Fr compatible
- Low-profile
- High trackability
- 2.5-6.0 mm diameter
- Long stents (8-20 cm)
- 1. Balloon expandable stents: better only in the upper part of the leg where muscles protect them from mechanical damage
- 2. Self-expandable nitinol stents

Essential bibliography

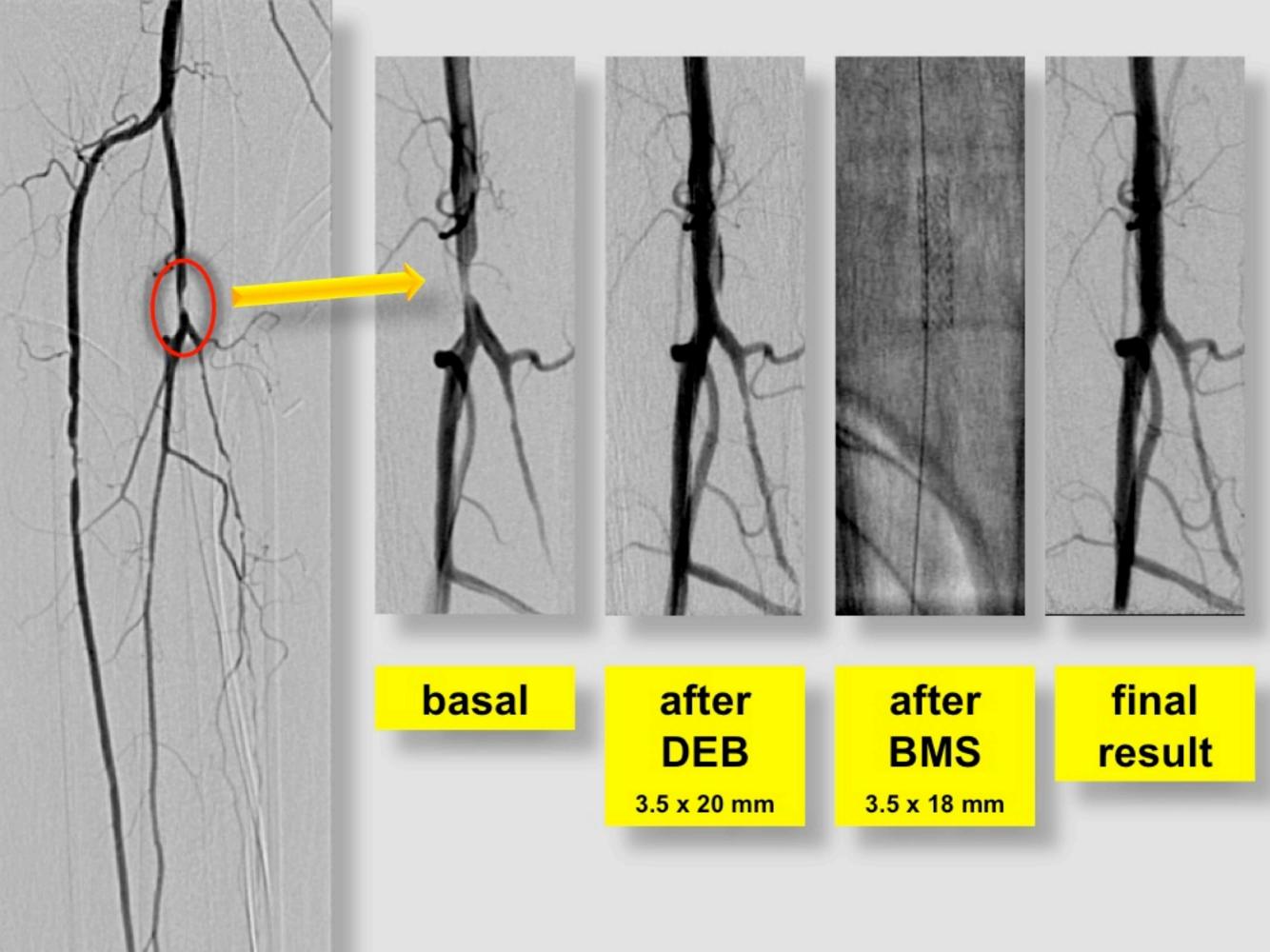
- Peeters P, Keirse K, Verbist J, Deloose K, Bosiers M. Other endovascular methods of treating the diabetic foot. J Cardiovasc Surg (Torino) 2009;50:313-21
- Kickuth R, Keo HH, Triller J, Ludwig K, Do DD. Initial clinical experience with the 4-F self-expanding XPERT stent system for infrapopliteal treatment of patients with severe claudication and critical limb ischemia. J Vasc Interv Radiol 2007;18:703-8
- Bosiers M, Lioupis C, Deloose K, Verbist J, Peeters P. Two-year outcome after Xpert stent implantation for treating below the knee lesions in critical limb ischemia. Vascular 2009;17:1-8
- Donas KP, Schwindt A, Schönefeld T, Tessarek J, Torsello G. Below-knee bare nitinol stent placement in high-risk patients with critical limb ischaemia and unlimited supragenicular inflow as treatment of choice. Eur J Vasc Endovasc Surg 2009;37:688-9
- Rocha-Singh KJ, Jaff M, Joye J, Laird J, Ansel G, Schneider P; VIVA Physicians. Major adverse limb events and wound healing following infrapopliteal artery stent implantation in patients with critical limb ischemia: the XCELL trial. Catheter Cardiovasc Interv 2012;80:1042-51
- Katsanos K, Diamantopoulos A, Spiliopoulos S, Karnabatidis D, Siablis D. Below-the-ankle Angioplasty and Stenting for Limb Salvage: Anatomical Considerations and Long-term Outcomes. Cardiovasc Intervent Radiol 2013;36:926-35
- Kawarada O, Yokoi Y, Higashimori A, Waratani N, Waseda K, Honda Y, Fitzgerald PJ. Stent-assisted below-the-ankle angioplasty for limb salvage. J Endovasc Ther 2011;18:32-42
- 8. Kawarada O, Yokoi Y. Dorsalis Pedis Artery Stenting for Limb Salvage Catheter Cardiovasc Interv 2008;71:976-82

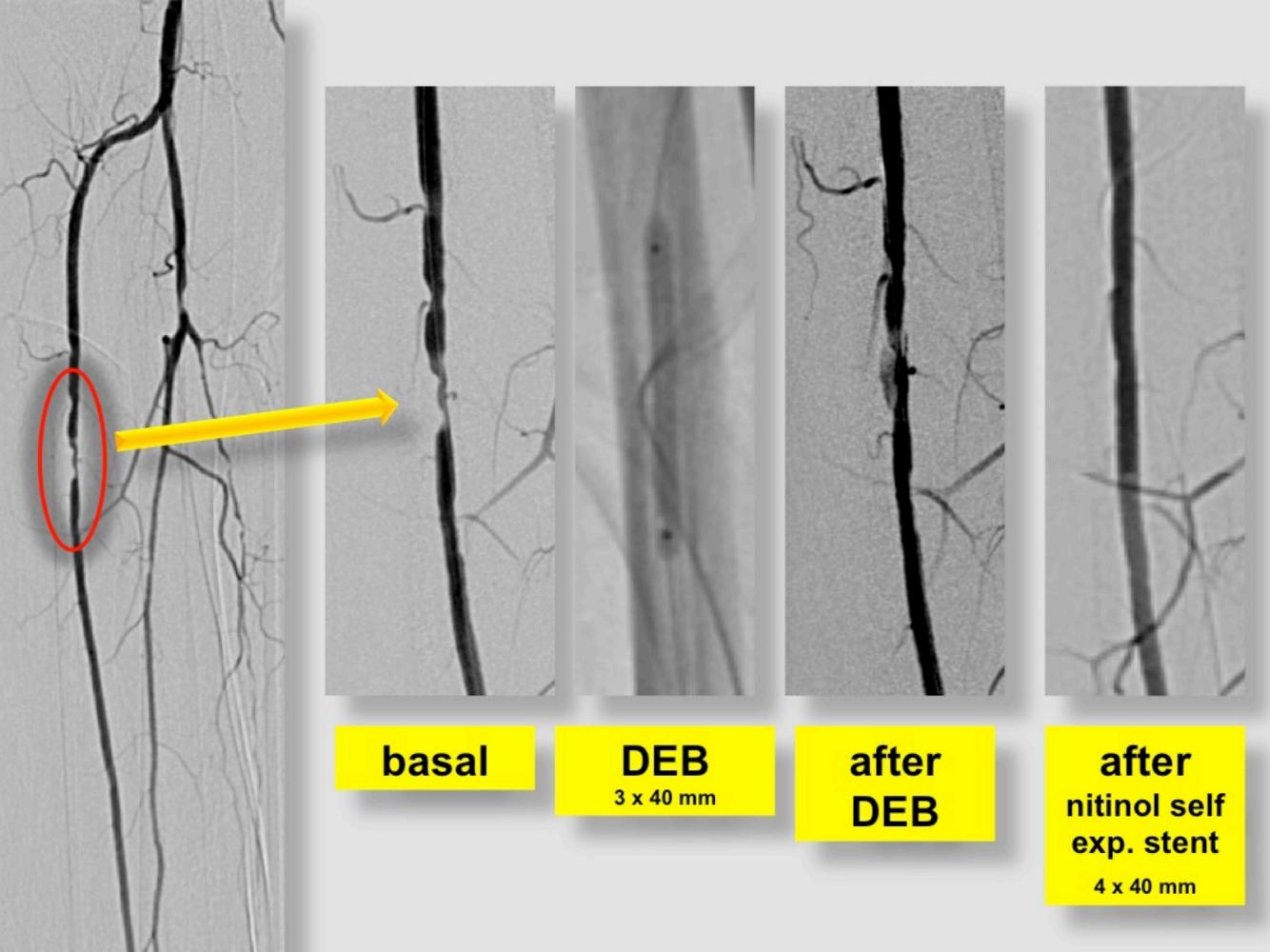
Patient 3

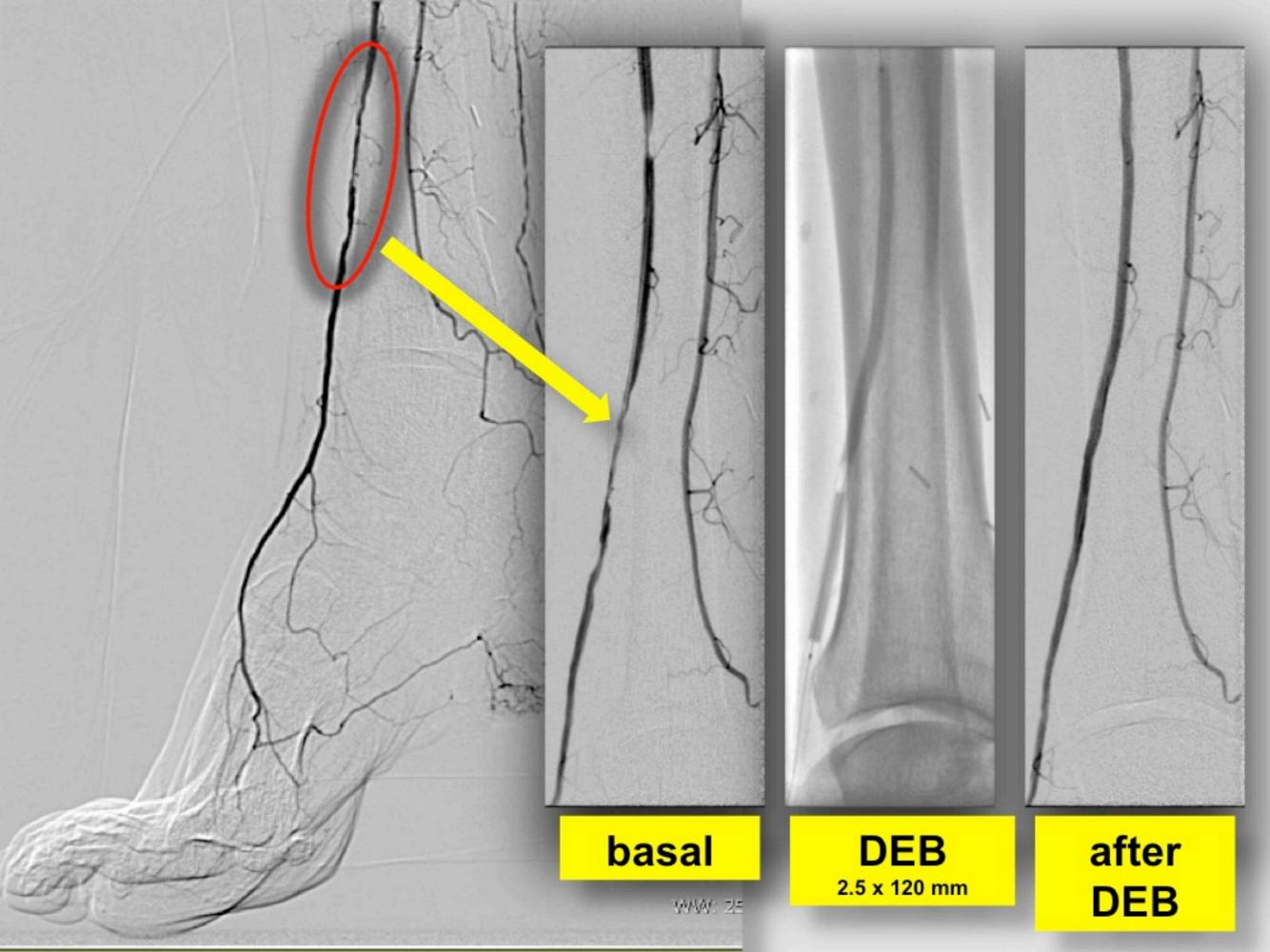
Focal tibioperoneal and anterior tibial artery stenosis in a Rutherford 4 patient

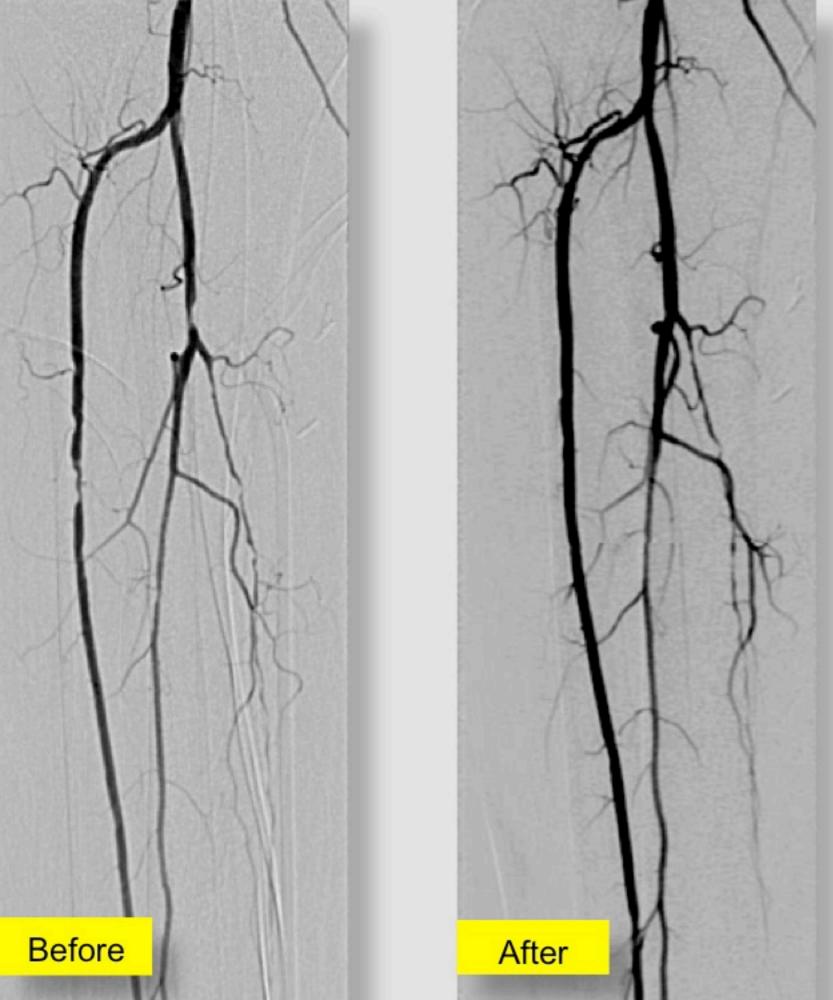










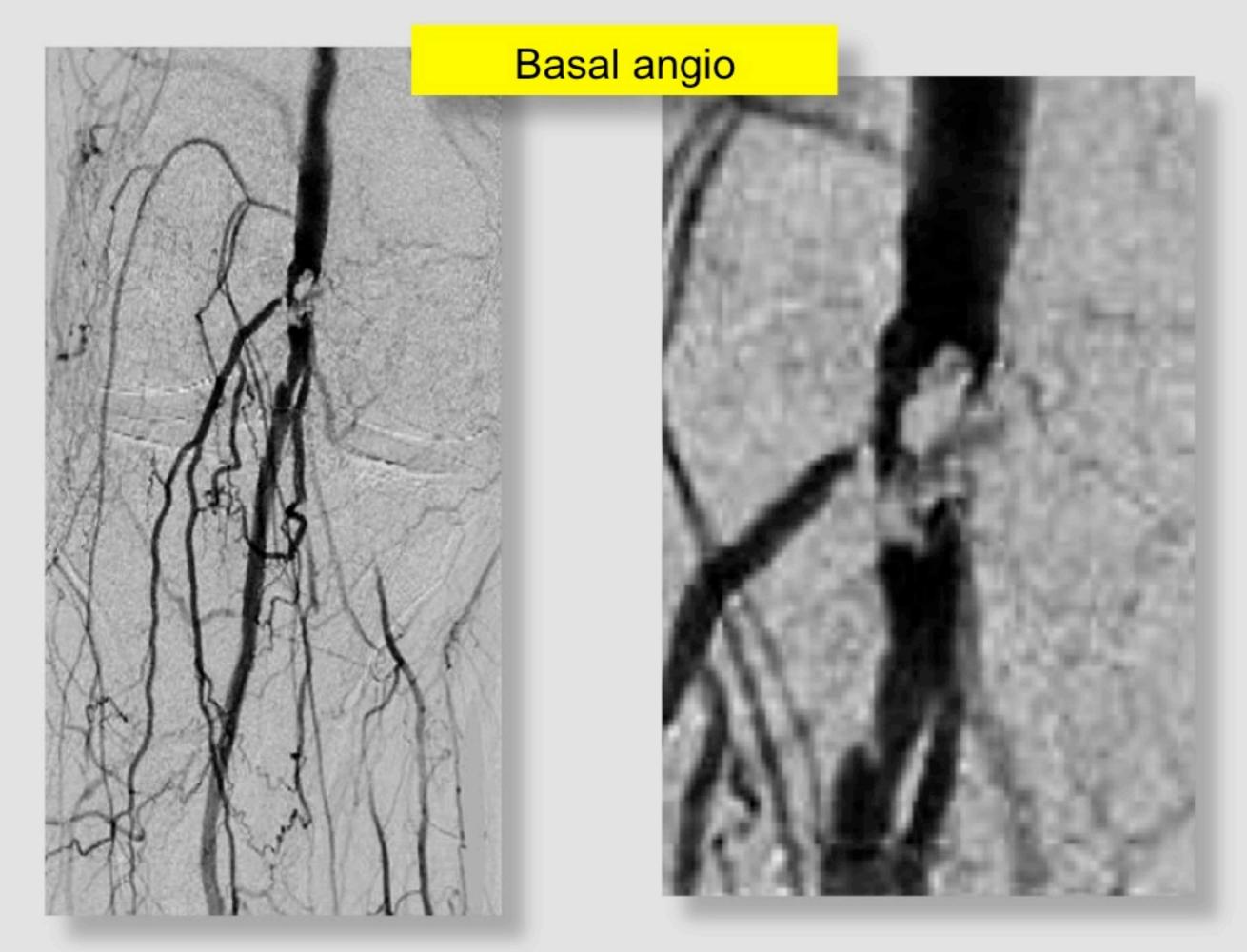






Subacute thrombosis of the posterior tibial artery

Basal angio



Atherectomy without protective filter

Result after atherectomy

Peripheral embolization in the last leg vessel!

Immediate foot pain !!!

Treatment of distal posterior tibial artery

This image was considered a focal spasm and the patient was sent to the bed 2 hours later

Foot pain

• Blue foot skin

2 hours later



Subacute thrombosis of the distal segment of posterior tibial artery

Final result

Stenting with a self-expandable nitinol stent, 3.0 x 100 mm

- 1. Plain Old Balloon Angioplasty (POBA) using BTK dedicated balloons
- 2. Bailout stenting with BTK dedicated stents

This is our standard two-steps approach