

TREATMENT OF ARTERIAL WALL RUPTURE INDUCED BY ROTAREX S™

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INTRO

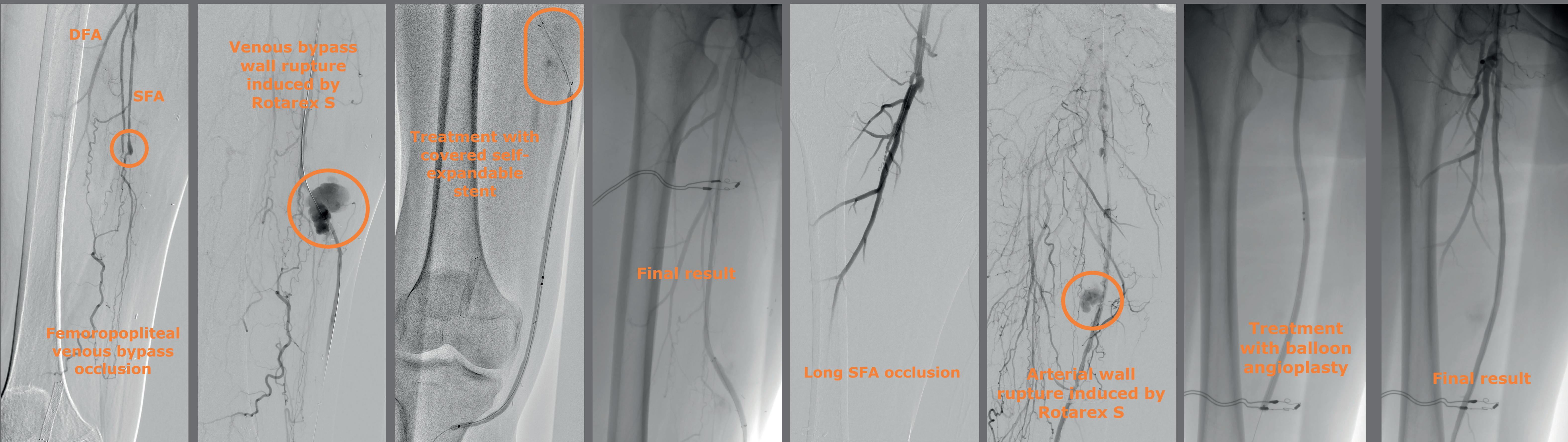
Atherectomy devices may be used for vessel preparation in peripheral arterial disease.¹ Goals are to reduce dissection risks, need for bailout stenting, to enhance lumen gain, vessel compliance and drug delivery.²
Adverse events of atherectomy are distal embolization,

dissection, acute occlusion, pseudoaneurysm formation and arterial wall rupture with bleeding.³
Through 2 cases, we report the 2 ways to manage arterial wall rupture with bleeding induced by athero-thrombectomy with Rotarex S™.

CASE REPORTS

CASE REPORT 1

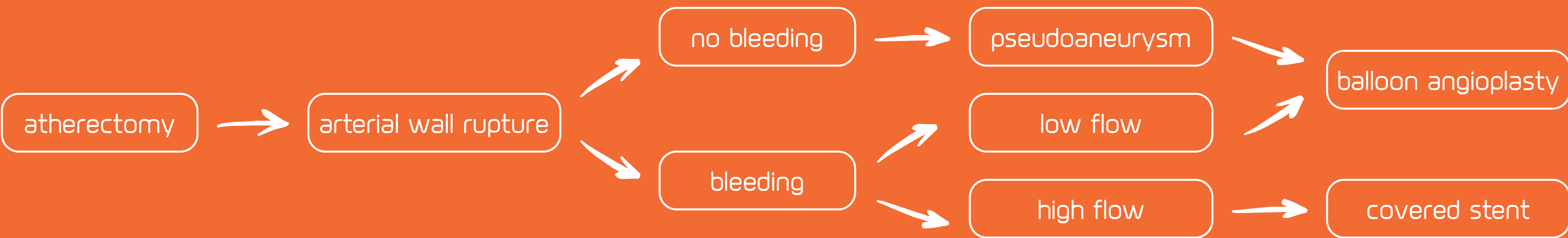
- 44-year-old man
- Rutherford classification stage 5 (rest pain and one toe necrosis)
- Computed tomography angiography : thrombosis of a distal femoro-popliteal venous bypass realized more than two years earlier.
- Vessel prep with Rotarex S™ athero-thrombectomy device
- Bypass rupture with acute hemorrhage
- Self-expandable covered stent
- Coated balloon angioplasty of the whole bypass
- Bypass patent at duplex scan 4 months later



CASE REPORT 2

- 66-year-old woman
- Rutherford classification stage 3 (calf claudication)
- Computed tomography angiography : total occlusion of the whole superficial femoral artery (SFA)
- Vessel prep with Rotarex S™ athero-thrombectomy device
- Low flow leak in the third part of the SFA
- Prolonged balloon angioplasty at the bleeding level
- Coated balloon angioplasty of the whole SFA
- SFA patent at duplex scan 4 months later

CONCLUSION



References

¹ Kerzmann A, Boesmans E, Holemans C, et al. Endovascular treatment of femoropopliteal arterial occlusive disease. Rev Med Liege. 2020;75(11):717-723.
² Katsanos K, Spiliopoulos S, Reppas L, et al. Debulking Atherectomy in the Peripheral Arteries: Is There a Role and What is the Evidence? Cardiovasc Intervent Radiol. 2017;40(7):964-977.
³ Bulvas M, Sommerová Z, Vaněk I, et al. Prospective Single-Arm Trial of Endovascular Mechanical Debulking as Initial Therapy in Patients With Acute and Subacute Lower Limb Ischemia: One-Year Outcomes. J Endovasc Ther. 2019;26(3):291-301.

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