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Distal hybrids for long chronic total occlusion of superficial femoral artery with severely compromised runoff

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Statement of the Problem: Over two thirds of patients with critical limb ischemia (CLI) present with superficial femoral artery (SFA) disease, often a long chronic total occlusion (CTO) with patient popliteal artery and extensive occlusive lesions in the crural vessels. We studied a series of hybrid interventions to treat this multilevel disease as an alternative to conventional approach (either bypass or PVI).

Methodology & Theoretical Orientation: A total of 33 patients (24.2% women; mean age 69.5 years), all with Rutherford class 5-6 disease, were included in the study. Angiography showed long (>200 mm) SFA CTO in all 33 cases (100%) accompanied by CTO of either all crural arteries (n=26; 78.8%) or all but the peronea (n=7; 21.2%). We performed femoropopliteal bypass with autologous vein in all patients (100%) followed by crural angioplasty done either no the same day (n=14; 42.4%) or 2-14 days later (n=19; 52.6%). Direct angiosomic revascularization was achieved in 30 patients (91%).

Findings: The in-hospital complications were one death due to MI (3%); early graft failure in 2 patients (6%; both after simultaneous hybrid interventions); early major amputation in one (3%). The 1-year patency and the amputation-free survival were 66% and 75%, respectively. The 1-year healing rate was 93.4%.

Conclusion & Significance: In CLI patients with long SFA CTO and extensive crural disease a shorter bypass to a patent popliteal artery followed by crural angioplasty does not seem to increase the risk of early graft failure and provides fair long-term outcome.

Recent Publications

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Biography

K Arshed has a MD grade in General Medicine and MS in Cardiovascular Surgery. At present he is pursuing PhD in Cardiovascular Surgery at St.Petersburg State Pediatric Medical University Department of Cardiovascular Surgery (Ministry of health of the Russian Federation) and practicing at city hospital no.14 under the supervision of Professor A N Lipin, researching on the topic "Revascularization of lower extremities during the course of occlusion of SFA in combination with severe lesions of the lower leg arteries".

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