Improved patency with Axillofemoral Bypass Grafts
Make Them The Open Procedure Of Choice When Endovascular Treatments Fail: Tips and Tricks That Account For Improved results
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Disclosures
I have received compensation from W.L. Gore® for unrelated work

Axillo-femoral Bypass grafts

Inferior Results
Five-year patency rates for Axillo-unifemoral bypasses was 44% and 50% for Axillo-bifemoral grafts (p >0.5)
Ascet E, Veith FJ, Gupta SK, Scher LA, Samson RH

Old literature - Failures
60% failures in the fem-fem crossover
16% due to inflow artery disease

What has happened in the “Modern Era”
Improved preoperative evaluation to assess the donor axillary artery
Endovascular techniques to improve the donor artery
Move from 6mm Dacron to 8mm ePTFE
Pre-constructed, ringed 8mm grafts with possibly improved flow dynamics
Heparin Bonding
Anterior proximal anastomosis
Distal anastomosis to incorporate the deep femoral
Duplex ultrasound to assess graft patency and possibly predict graft failure
Endovascular techniques to prevent graft failure
Antiplatelet agents and Statins
Axillo-bifemoral Grafts

Improved preoperative evaluation to assess the donor axillary artery and CAT scan

Endovascular techniques to improve the donor artery

Ringed 8mm PTFE rather than Unsupported Dacron

Pre-constructed Graft with possibly improved flow dynamics
Anterior proximal anastomosis

Distal anastomosis to incorporate the deep femoral

Duplex ultrasound to assess graft patency and possibly predict graft failure

Antiplatelet agents and Statins
Axillo-bifemoral Grafts

Survival

8 Patients died within 3 months all due to comorbid conditions
12 (10%) died in the first year
54% 10 Years

Axillo-Unifemoral

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