Tibiodistal vein bypass in critical limb ischemia and its role after unsuccessful tibial angioplasty

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Disclosures

- Nothing to disclose
Introduction

- Angioplasty increasingly advocated for distal tibial lesions
- Failed angioplasty often results in a dilemma
- Absence of suitable autologous vein limits surgical options
- Short tibio-distal vein bypasses are rarely considered
- No dedicated reports of this technique in the last 23 years

- 881 pedal bypasses between 1995 and 2017
- 61 tibio-distal bypasses (6.9 %)
  - Group A – primary tibiodistal bypass \((n=28)\)
  - Group B – bypass after unsuccessful PTA \((n=33)\)

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Bailout Bypass (Group B)

- Bypass from anterior tibial to medial plantar artery with non reversed LSV
Enzmann et al. Tibiodistal vein bypass in critical limb ischemia and its role after unsuccessful tibial angioplasty. J Vasc Surg; 2017
Conclusions

- Tibiodistal bypass rarely performed
  - 6.9% of pedal bypasses
- Patency comparable to usual pedal bypasses
- High risk patients with distal lesions
- Often bailout procedure for complications after PTA
- Previous unsuccessful PTA had no influence
- Very effective technique for limb salvage (82% wound healing)