Femoral Vein Graft Complications

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NO DISCLOSURES

NAIS Complications*

- Compartment sx
  - 12 – 18%
- Reinfection
  - 5%
- Acute bleeding
  - 5%
- PE
  - <2%
- Graft occlusion
  - <1% acute

*Ali AA et al, JVS 2009

Preoperative Considerations

Vein Mapping

- Contraindications
  - Diameter < 6 mm
  - Chronic occlusion
  - Acute DVT

Intraoperative Considerations
Technical Steps
- Secure ligation of vein branches
  - “Popped” ties
  - Avoid tearing branch

Technical Steps
- Secure ligation of vein branches
- Cut valves

Technical Steps
- Secure ligation of vein branches
- Cut valves
- Take vein at confluence
- Tunneling

Postoperative Considerations

Compartment Syndrome
- Risk factors:
  - Preop ABI < .4
  - Harvest ipsilateral GSV
  - Large fluid volumes
- Prevalence reduced
  18%→12%
DVT

- At CFV stump

- At popliteal vein stump
  - No consequence

- Other

Reinfection

Risk factors

- Overwhelming sepsis

- Compromised immunity

- Virulent Organisms
  - Candida
  - Pseudomonas
  - Polymicrobial

Late Graft complications

- Stenosis

- Aneurysmal degeneration
  - No cases