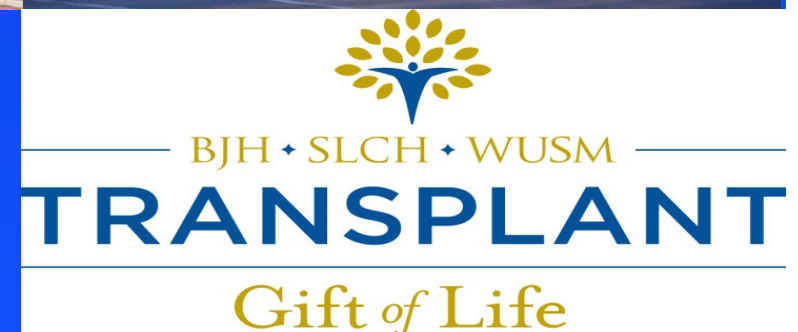


Femoro-femoral / femoro-popliteal AVF with femoral vein transposition



Surendra Shenoy MD., PhD.
Washington University School of Medicine
Barnes Jewish Hospital
St. Louis, Missouri



Disclosures

**Presenter performs funded research in
vascular access and transplantation**

**No disclosure pertaining to materials in
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Causation, Incidence & prevalence

Central vein abuse

Catheters

PICC lines

Pacemakers

Incidence ? Decreasing?

Pre-operative work up

Confirmation of upper extremity non availability

Evaluation of lower extremity outflow patency

**Evaluation of lower extremity inflow and distal
arterial tree**

**Duplex Doppler US
CT angiography**

Evaluate femoral, iliac and IVC patency

Evaluate aortoiliac run off

Clinic US to evaluate the femoral and popliteal vein

Relative contraindication: Obesity, short fat thigh

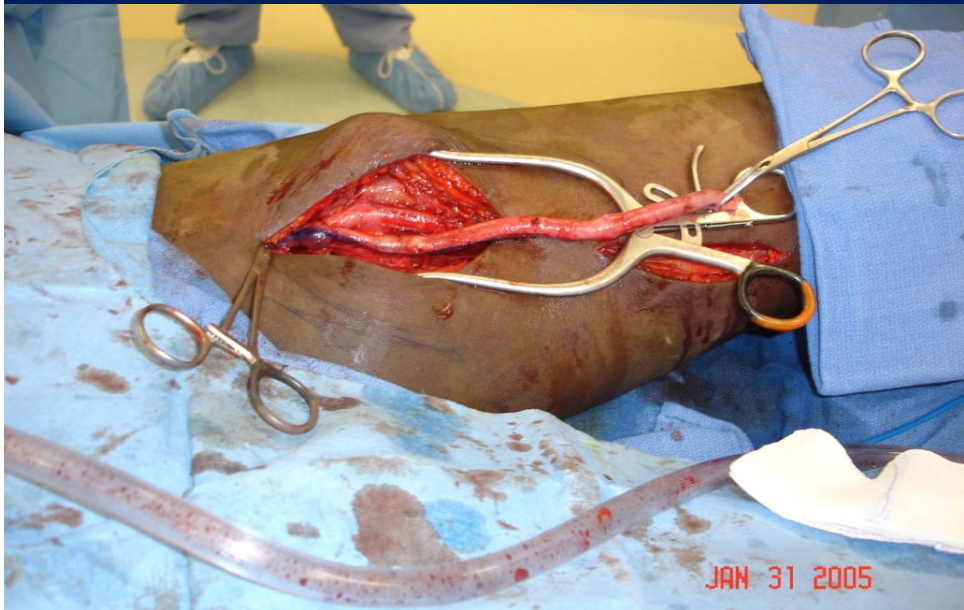


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Technique



Femoral vein loop thigh AVF

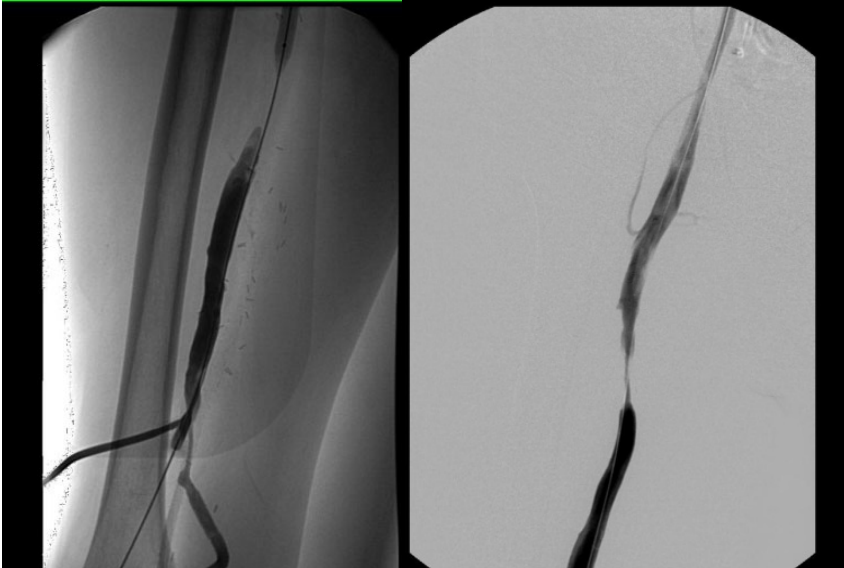


Complications



Short term

1. Calf edema and tenderness
2. Paresthesia
3. Lymphocele
4. Bleeding
5. Failure to mature
6. Limb loss

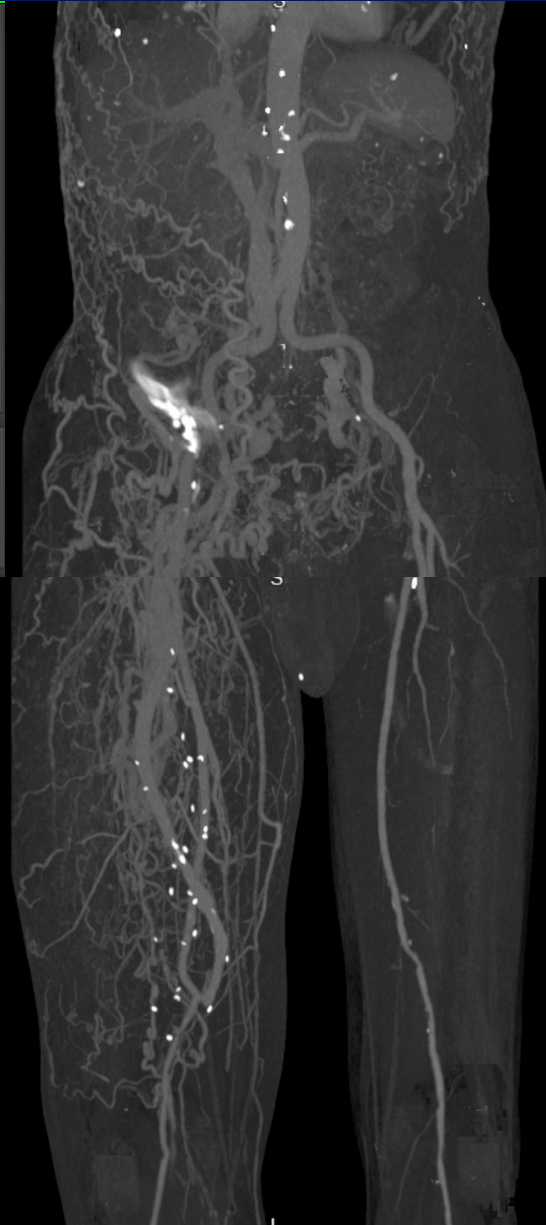


Long term

1. Swing point stenosis
2. Thrombosis
3. Loss of patency
4. Steal
5. Limb loss



IVC obstruction



Left thigh Femoro-femoral loop AVF

37 yr male old ESRD since age of
12 years lost all options

L Thigh AVF in 6/1/2006

Aneurysm repair without use of
bridging catheter 7/28/17



Results

Between January 2005 to Dec 2018

Total lower extremity access n = 49

Thigh AVG (n = 23) 47%

Lower extremity AVF (n = 26) 53%

- Femoral vein to popliteal - straight (20) 77%**
- Femoral vein to femoral artery – loop (4) 15%**
- Saphenous vein base (2) 8%**

Performed between 2005-2010 38

Performed between 2010 – 2018 11

Primary failures for femoral vein AVF 0%



Conclusion

A well-executed femoral vein superficialization procedure fistula is a valuable option for lower extremity AVF creation

Considering the nature of patient's where it is indicated this procedure should possibly be restricted to centers where expertise is available

