



**Queen
Elizabeth
Hospital
Birmingham**



**University Hospitals
Birmingham**
NHS Foundation Trust

The dialysis nurse perspective on endovascular arteriovenous fistula

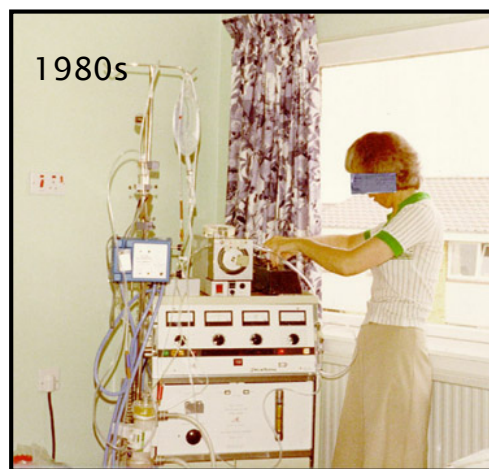
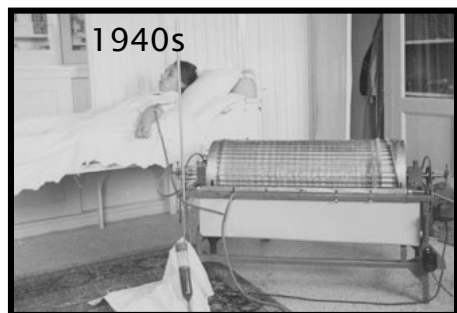
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Lead Vascular Access CNS

VASA 10th 11th 12th May 2018

Disclosures

Honoraria – Consulting with TVA Medical



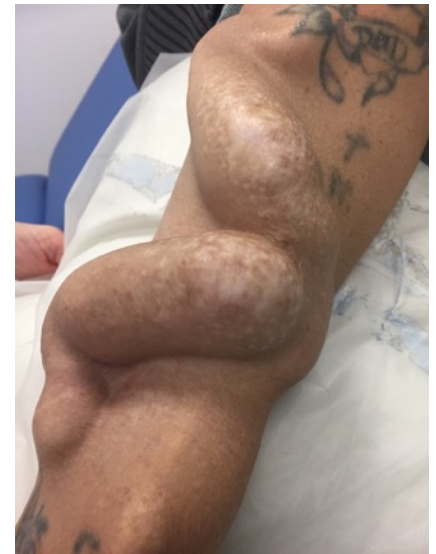
Photos of KT 60s, 70s, 80s, 90s, 00s, now



N Engl J Med 1966;
275:1089-1092

Fistula 13 years old

- ▶ Failure to mature
- ▶ Venous stenosis
- ▶ Aneurysm
- ▶ Ischaemia
- ▶ Infection
- ▶ Bleeding



Nurses and patients perspectives

- ▶ *“Will it be one of those big ugly things”*
- ▶ *“Can I use my arm normally”*
- ▶ *“the first few didn’t work and now this one keeps going wrong”*
- ▶ *There are some good nurses and some bad ones”*





- ▶ 3 days post procedure
- ▶ 600ml flow
- ▶ easily palpable
- ▶ Good cannulation segment





10mo



13mo



14mo



14mo

Vancouver

3years post formation

- No aneurysms
- Maintained cannulation
- Few complications
- **Patients liked them!!**



Considerations for cannulation

- ▶ Experienced cannulator to get started
- ▶ Palpable
 - Softer
 - Less aneurysmal
 - Flow in vessel less
- ▶ Use a Tourniquet
- ▶ ?USS guided cannulation



10 months

Shared flow

- ▶ 4 patients with dual dominance
- ▶ Exploiting the shared flow



6 weeks



14 months

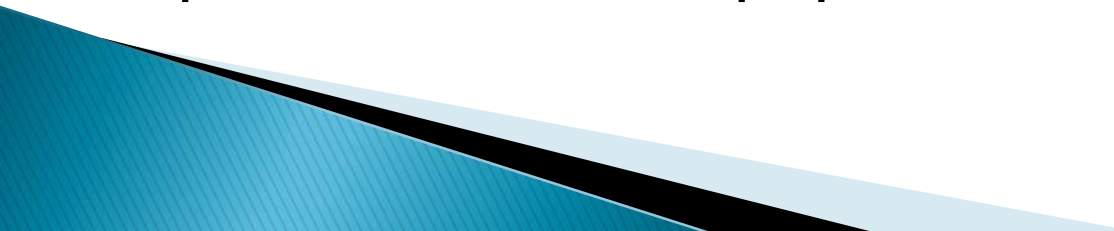


Home Hemodialysis/self cannulation

- ▶ 40 yr old patient
- ▶ Self employed
- ▶ Home HD
- ▶ Self cannulates
- ▶ Previous RCAVF
- ▶ Ruptured
- ▶ Much happier with non-aneurysmal “gentle” fistula



Discussion

- ▶ Little has improved vascular access since the “surgical” AVF 50 years ago
 - ▶ The endoAVF is a major shift for patient benefit
 - ▶ Clinically
 - Provides an excellent functional AV fistula for dialysis
 - Minimizes risk of high flow AVFs
 - Appears to Reduce aneurysms, steal and interventions
 - ▶ High level of patient satisfaction and expressed preference in our population
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Thank you

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