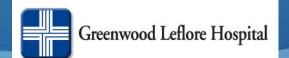


A mechanism of banding failure in mega-fistulas

Alexandros Mallios MD, John Lucas III MD, William Jennings MD



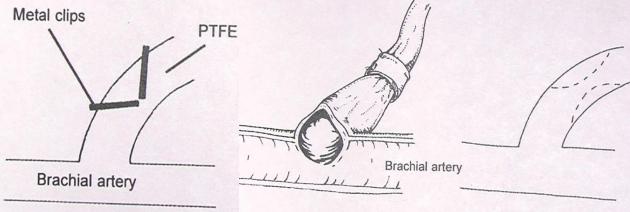




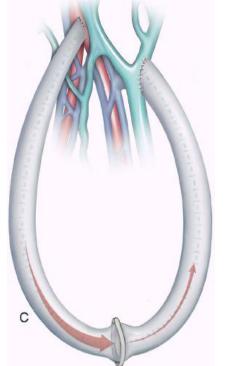


No Disclosures

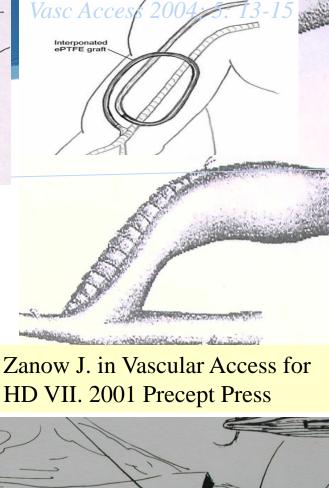




Bakran A. in Vascular Access Simplified. 2003 Trinity Press



So many options.....



Henriksson AE. Journal

Rubio PA. Atlas of Angioaccess Surgery.

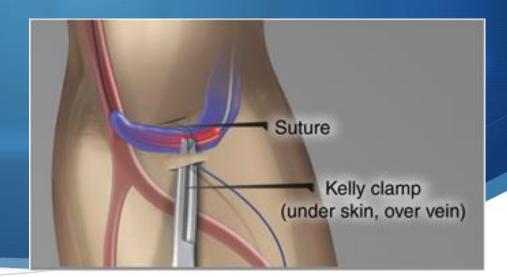
1983 Year Book Medical Publishers

Malik J, Davidson I. J of Vasc Access 2008;9:155-1666

Post-anastomotic Resistance Fistula Flow







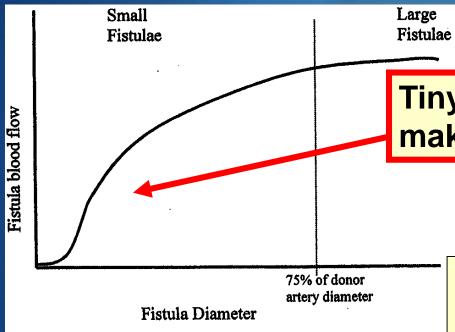
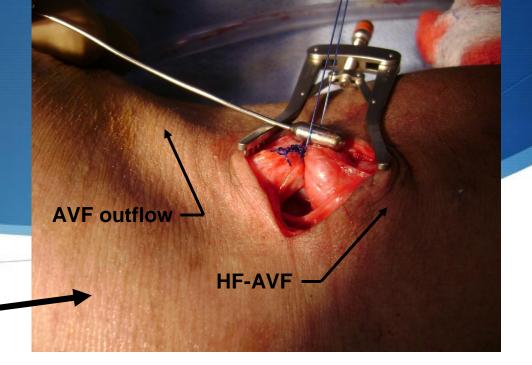


Figure 2. Sigmoid curve reflecting the flow through an arteriovenous fistula as a function of fistula diameter. Blood flow in small fistulas (20% to 75% of the donor artery diameter) is directly proportional to fistula diameter. Blood flow in large fistulas is independent of the fistula diameter and depends more on the resistance of the inflow artery, the peripheral circulation, and the collateral network.

Tiny increments in AVF diameter make *major* changes in flow.

Wixon CL, Hughes JD, Mills JL. Understanding strategies for the treatment of ischemic steal syndromes after hemodialysis access. J Am Coll Surg. 2000 Sep;191(3):301-310.

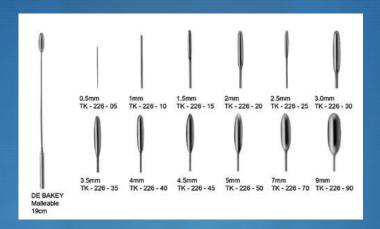


US calculated flow in brachial artery as a surrogate for AVF flow

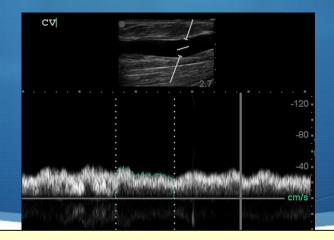
- Precision banding using a vessel dilator as a dowel.
- -Flow restriction is created adjacent to the AVF anastomosis, using polypropylene suture and sized in 0.5 mm diameter increments.
- -AVF flow rates are re-measured until the target access flow is achieved (500-800ml/min). A second suture was placed at the same site for security.

Gkotsis G, Jennings WC, Malik J, Mallios A, Taubman K. Treatment of high flow arteriovenous fistulas after successful renal transplant using a simple precision banding technique. Ann Vas Surg. 2016, Feb;31:85-90.

1.Precision



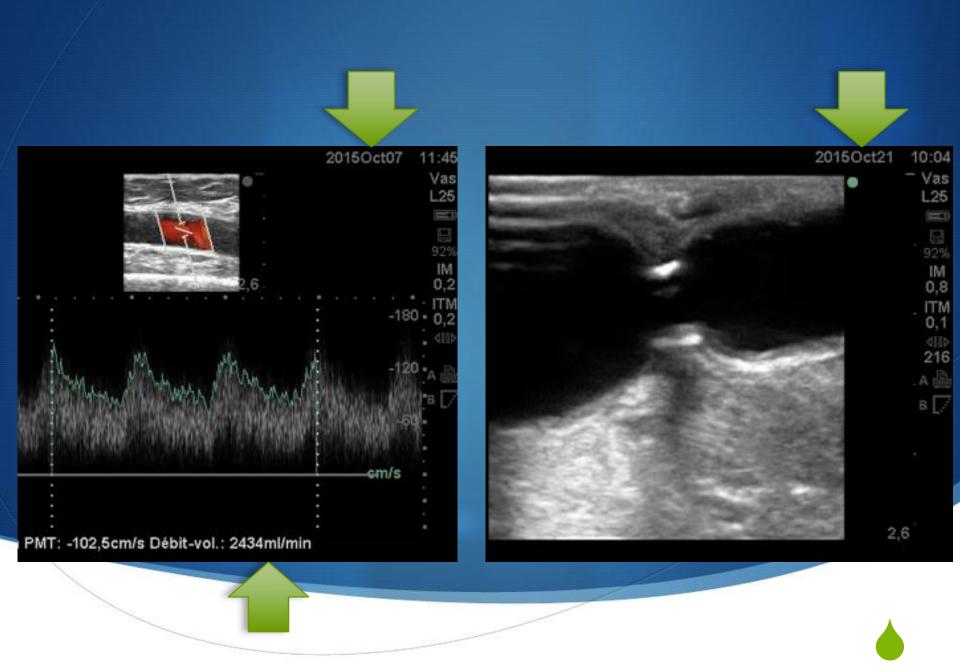
2.Use of Ultrasound

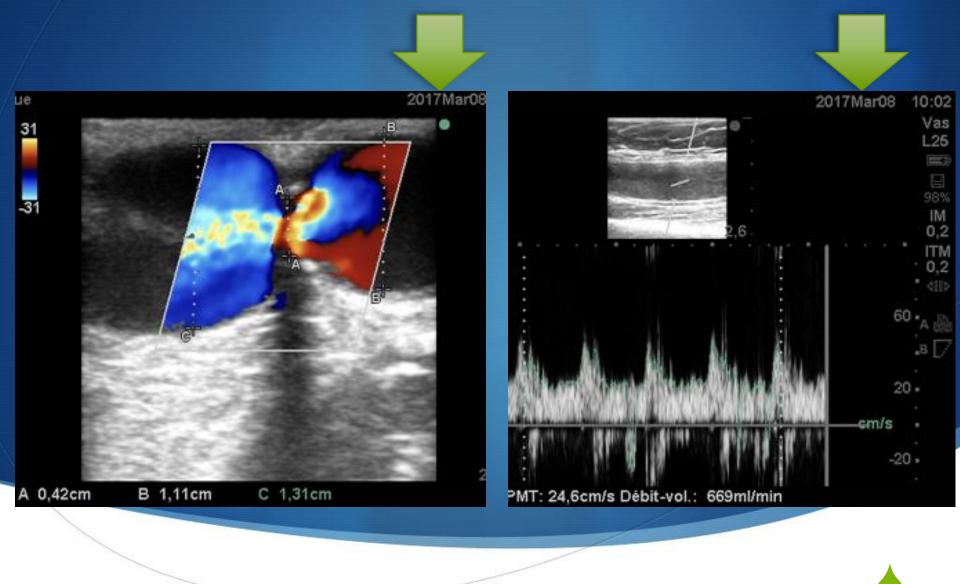


Real time perioperative ultrasound flow replaces guess work!!!

Local Anesthesia to Avoid Blood Pressure Variations

Banding Works and is Durable





However, one lovely afternoon in....

...Jamaica

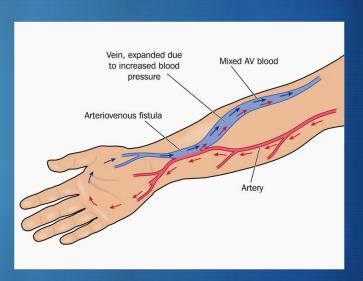






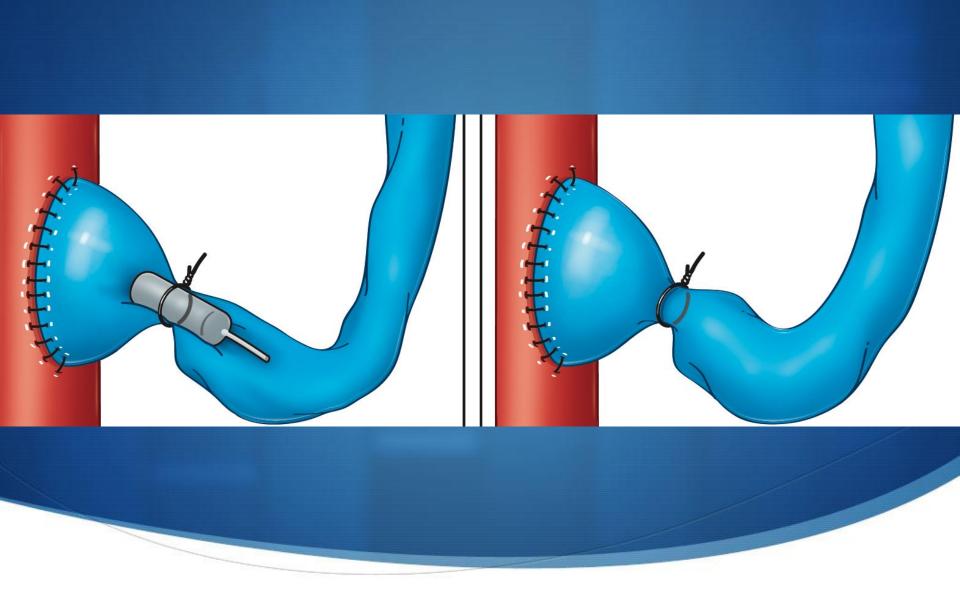




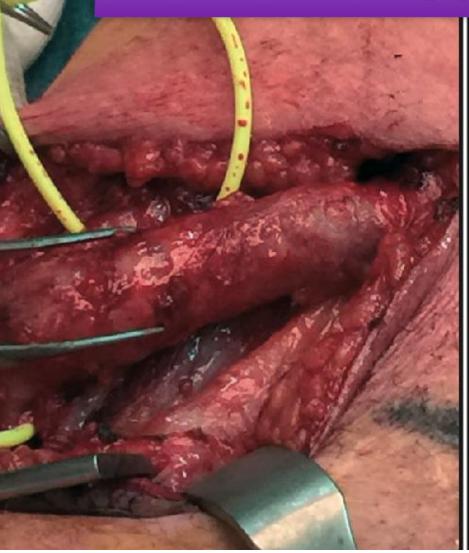


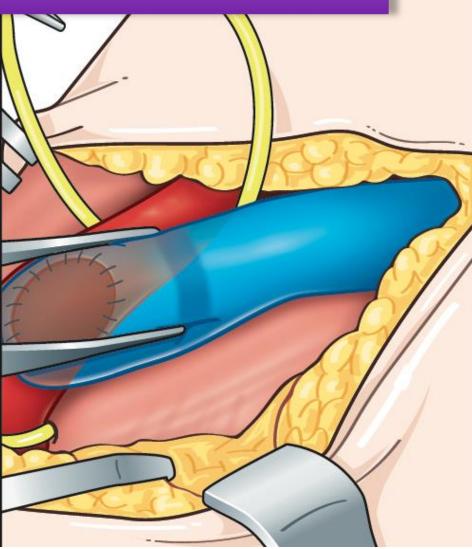
4 patients took back for failure of banding...

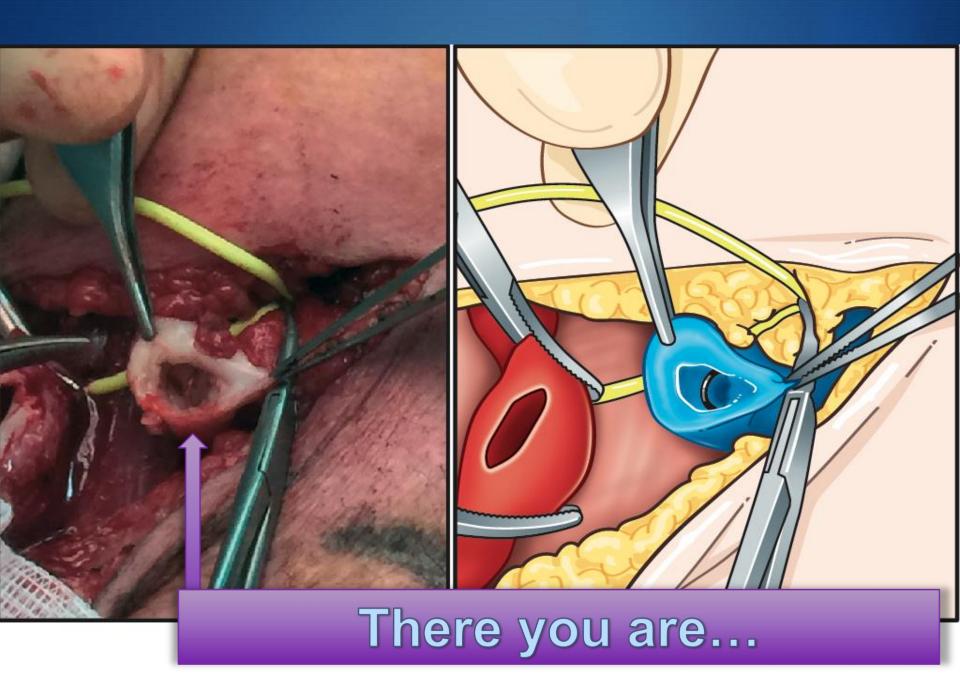
found exactly the same thing...

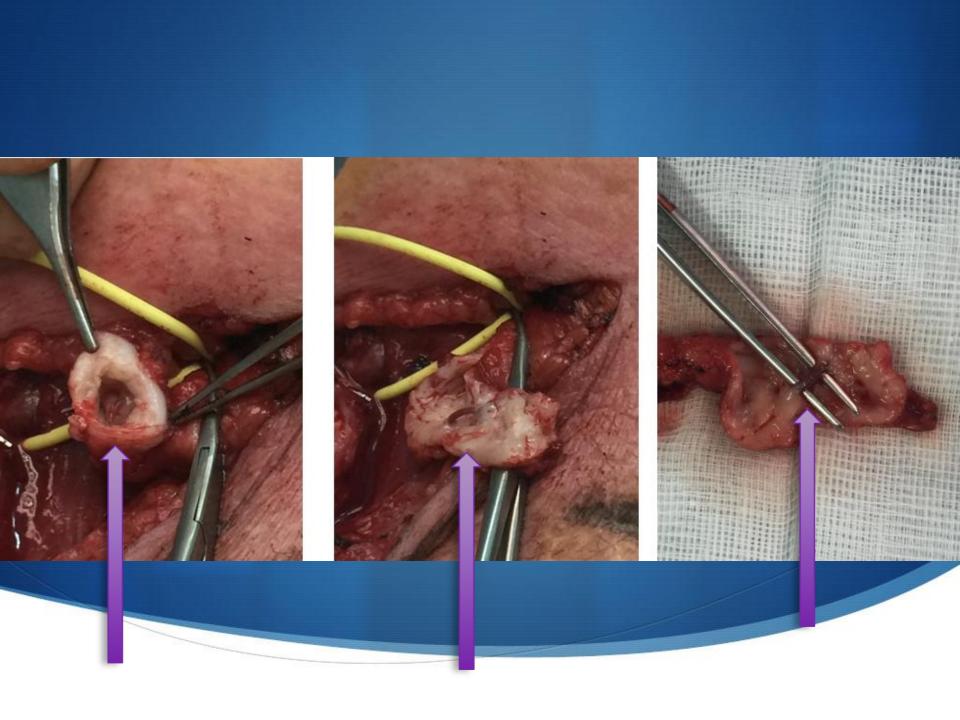


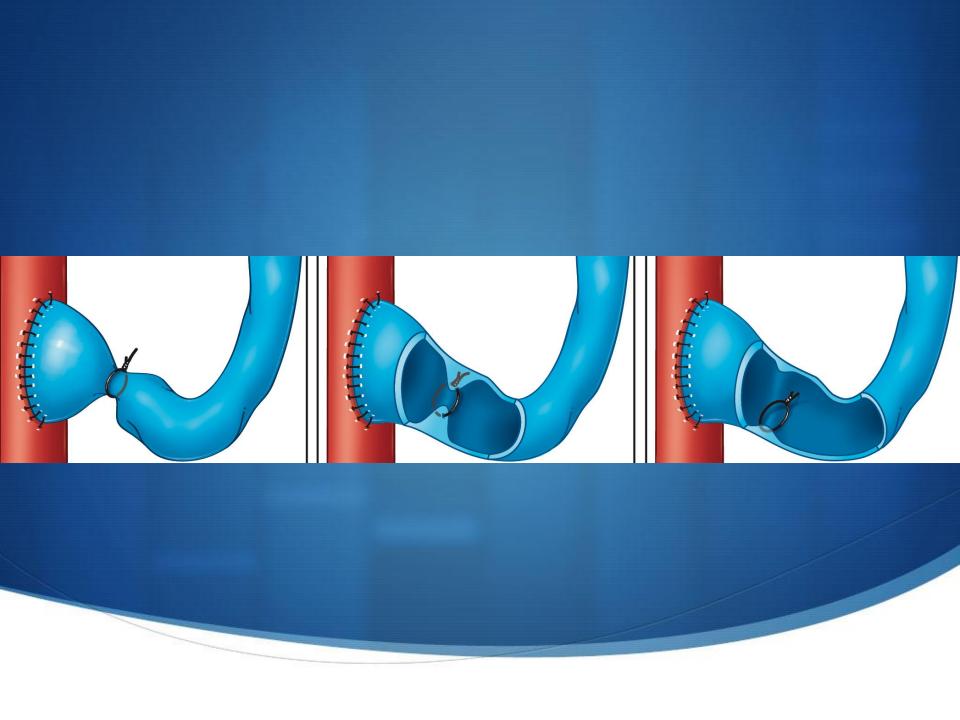
Where the Heck is my Suture ????











>2cm AVF

Uncontrolled BP???

 Second suture to taper down?? Banding Works...

 Caution when it comes to "Mega-Fistulas"

 No single operation is best for all patients...

Thank you for your attention



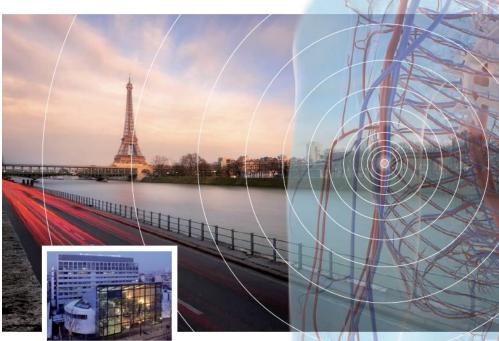


Save the Date!!!



PARIS - Friday 14th September 2018

Institut Mutualiste Montsouris



Institut Mutualiste Montsouris

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