

# Managing the groin Pseudoaneurysm

VS ASM 2018 Vice-President's Symposium





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### Am I a Groinery expert?

#### <u>No</u> There is no such word in the dictionary! Not allowed in scrabble!

So why ask me.?

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### My Remit?

#### **Groin Pseudoaneuryms**

Post Cannulation- Cardiology / IR / PEVAR
 IV DU – infection

#### **Anastomotic- Proximal / Distal Aspect of graft**

#### Is there advice on when to intervene?

#### How to repair? Role for endovascular / funny bypass options

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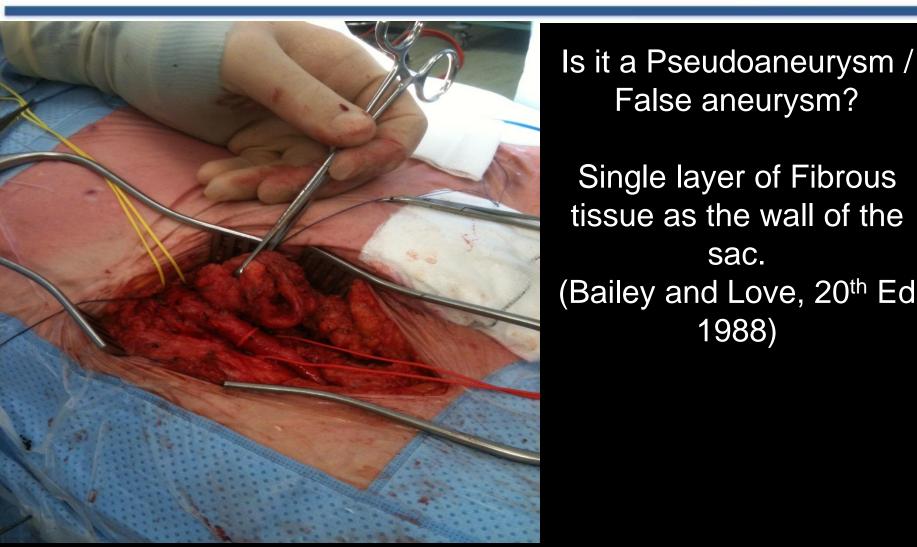
#### Post PEVAR Painful mass

#### Post reintervention

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Difficulties of control; Proximal dual clamp. High PFA with balloon control.

Vein patch repair

No muscle flap required

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### What are the rules?

- No role for Conservative Management if an anastomosis is distrupted!
- Increasing size risks arterial and venous compression, embolism or thrombosis (Vascular and Endovascular Surgery 2<sup>nd</sup> ed)
  - Post Cannulation 2-3cm appears
    the cut off for intervention

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### Post Cannulation? Acceptable rate 0.2%

Reported 0.6%-6%

### Treat if over 2cm maximal diameter-But <u>NO</u> Consensus guidelines Look for neck length > .9cm Thrombin injection~97% success rate Lack of Thrombin- US compression

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Non resolution/ Expanding/ Skin Pressure

Oblique Groin Crease Incision Control at the inguinal Ligament

Puncture site bleed- suture closure

Failed closure device – arteriotomy and patch

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### Anastomotic False Aneurysms?

• Risk of making a come back?

### Often concern that these are due to Chronic Infection. But more likely technical or material related; Suture breakage/ cutting through.

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Technically Challenging!

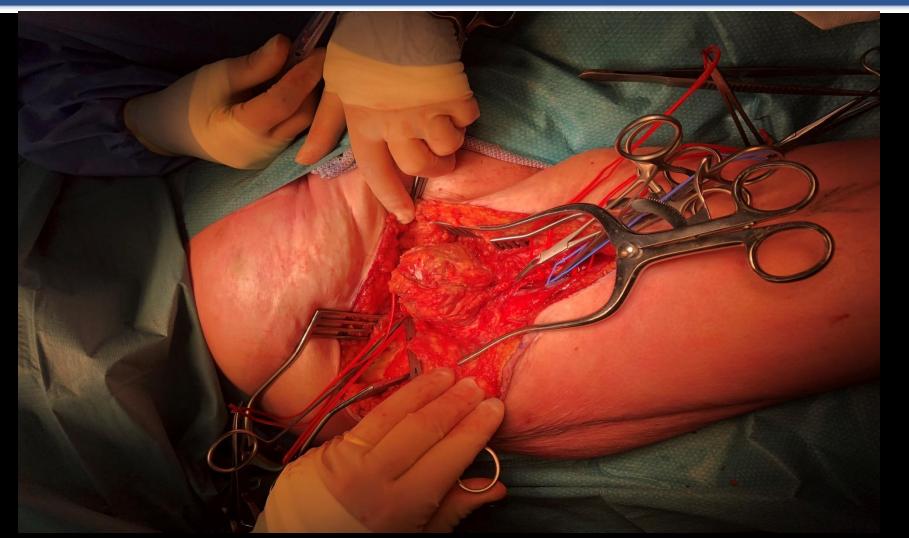


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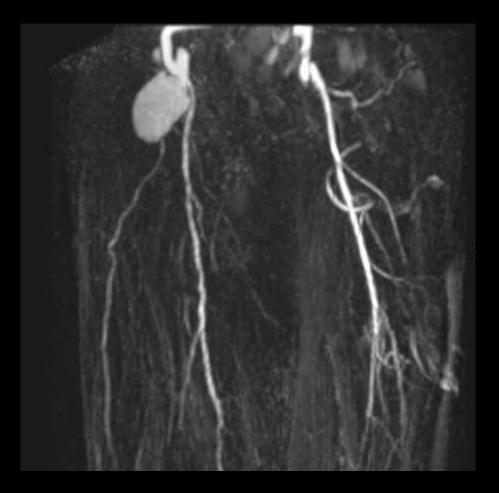






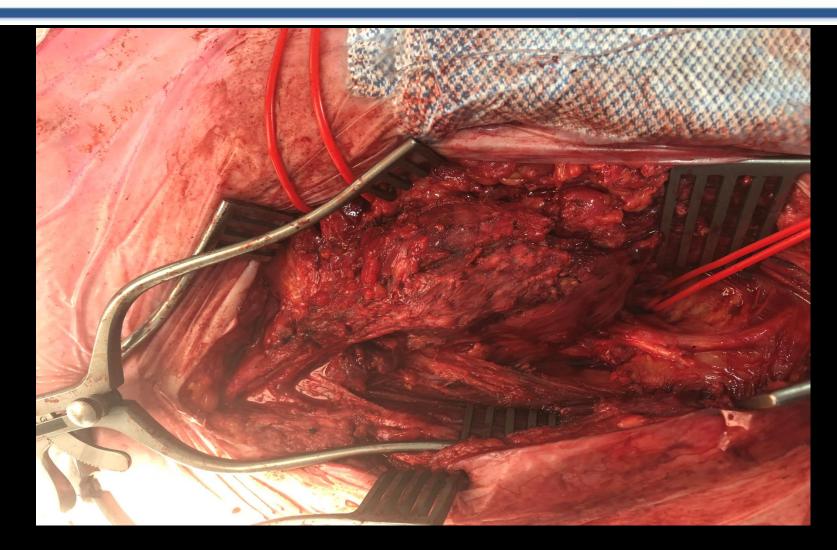












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old Blocked Lage Defect Into Thatas Filled False An CLCC JA K.aSOME

Lateral False Aneurysm at anastomotic site of old cross over

Patent Aorto-femoral limb Controlled-proximally

Silver graft soaked in Rifampicin

Sartorious switch muscle flap coverage.

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### **Surgical Plan?**

- Will the pt tolerate intervention or the complications!
- Plan your approach / control and have a back up!
- Plan the conduit replacement and have a autologous back up!
  - Expect it to take a long time!
- Expect to have to reconstruct a native vessel for an anastomosis

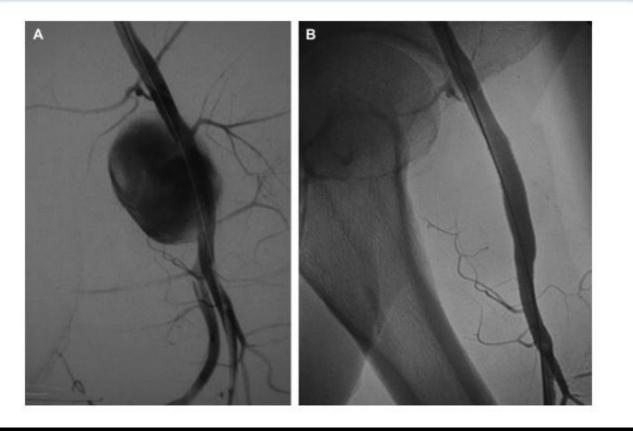
### Warn the Anaesthetist

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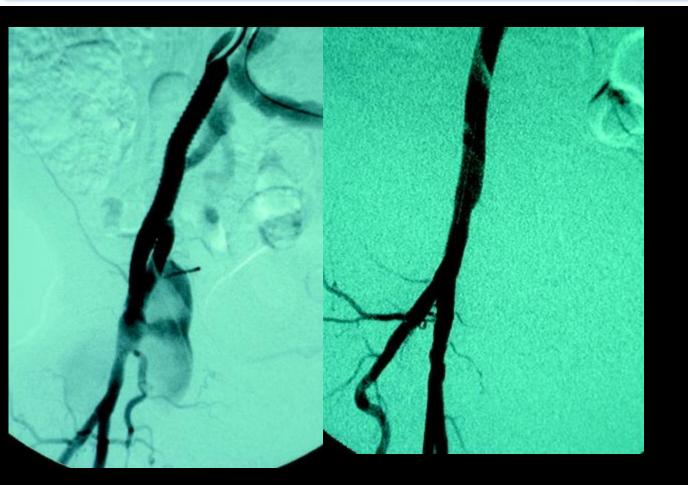
Immunosuppressed Ipsilateral access

#### **Endovascular Options**

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Derom & Nout EJVS Dec 2005

Case Series Of 6 High risk cases.

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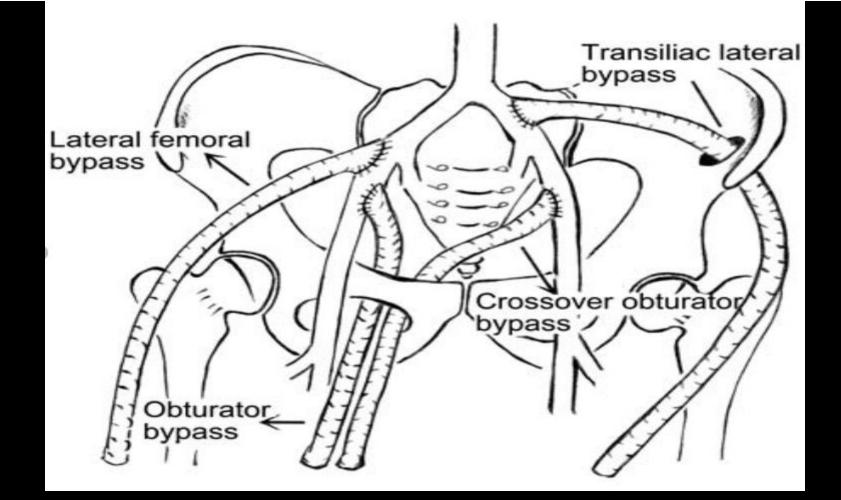




### But what if it is infected?

- The prosthetic has to go!
- All the groin vessels sewn over
- Extra anatomical Bypass ideally with vein.
- Can reconstruct SFA/PFA bifurcation distally.





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### Infected False Aneurysm Post Drug Injection

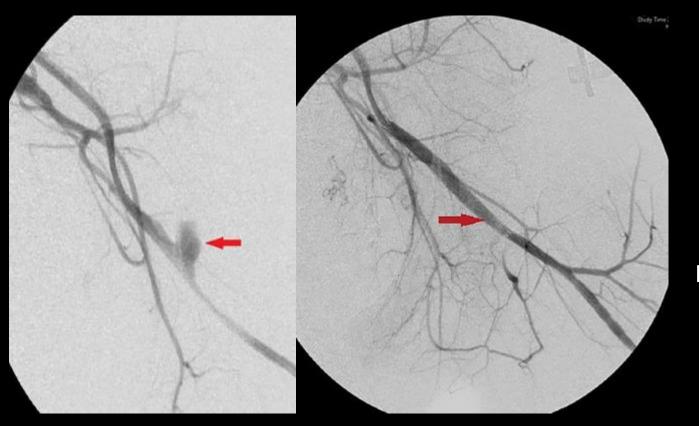
Vascular Control Debridement Primary Ligation Risk of Amputation ~8% (worse if all 3 vessels ligated) Revascularisation~12% risk of amputation Coughlin EJVS 2006

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Endovascular stent control of haemorrhage

Subsequent definitive revascularisation

### Ahmad et al IJSCR 2017

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#### Thank You

#### Any Questions?

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