How I Approach The Swollen Arm

Renal Access Session,
VS, 28th November 2018

Mr Paul Gibbs
Renal Transplant and Access Surgeon
Wessex Kidney Centre
QAH, Portsmouth

University of Portsmouth

Wessex Kidney Centre
Delivering Excellence in Kidney Care

I have no financial disclosures relevant to this talk.

What I will talk about

- Aetiology
- Investigations
- Simple balloon fistuloplasty
- Surgical Options
- Stents Grafts
- DCBs

What I won’t talk about

- Central venous pathology
- HeRO Graft
- Surfacer

What I will talk about

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Aetiology

- CVC usage
- Graft-venous anastomosis
- Swing points
  - Cephalic arch
  - BBFTs

- Previous damage to the vein (lines, phlebotomy….)
- Flow effects (valves, aneurysms, myointimal hyperplasia)

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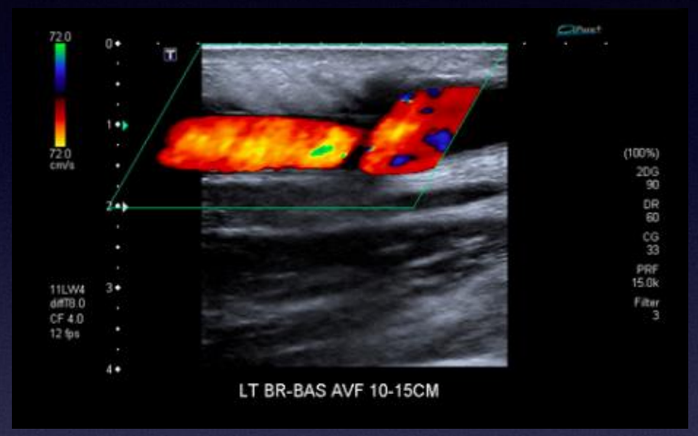
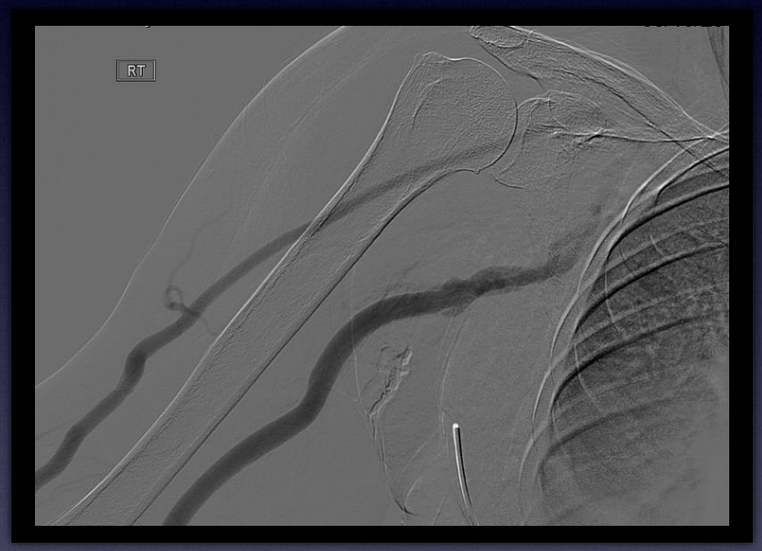
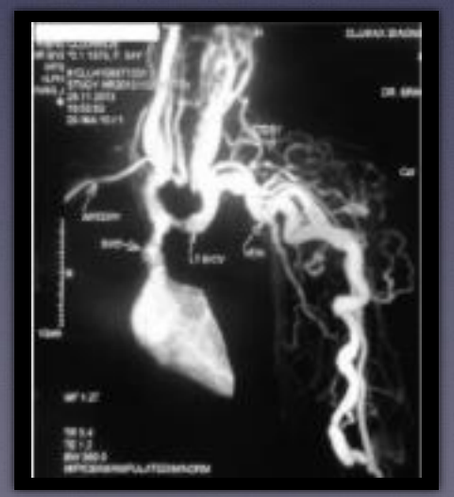
Investigations

- Duplex USS
- Fistulogram
- CT Venography
- MR Venography







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Simple Balloon Fistuloplasty

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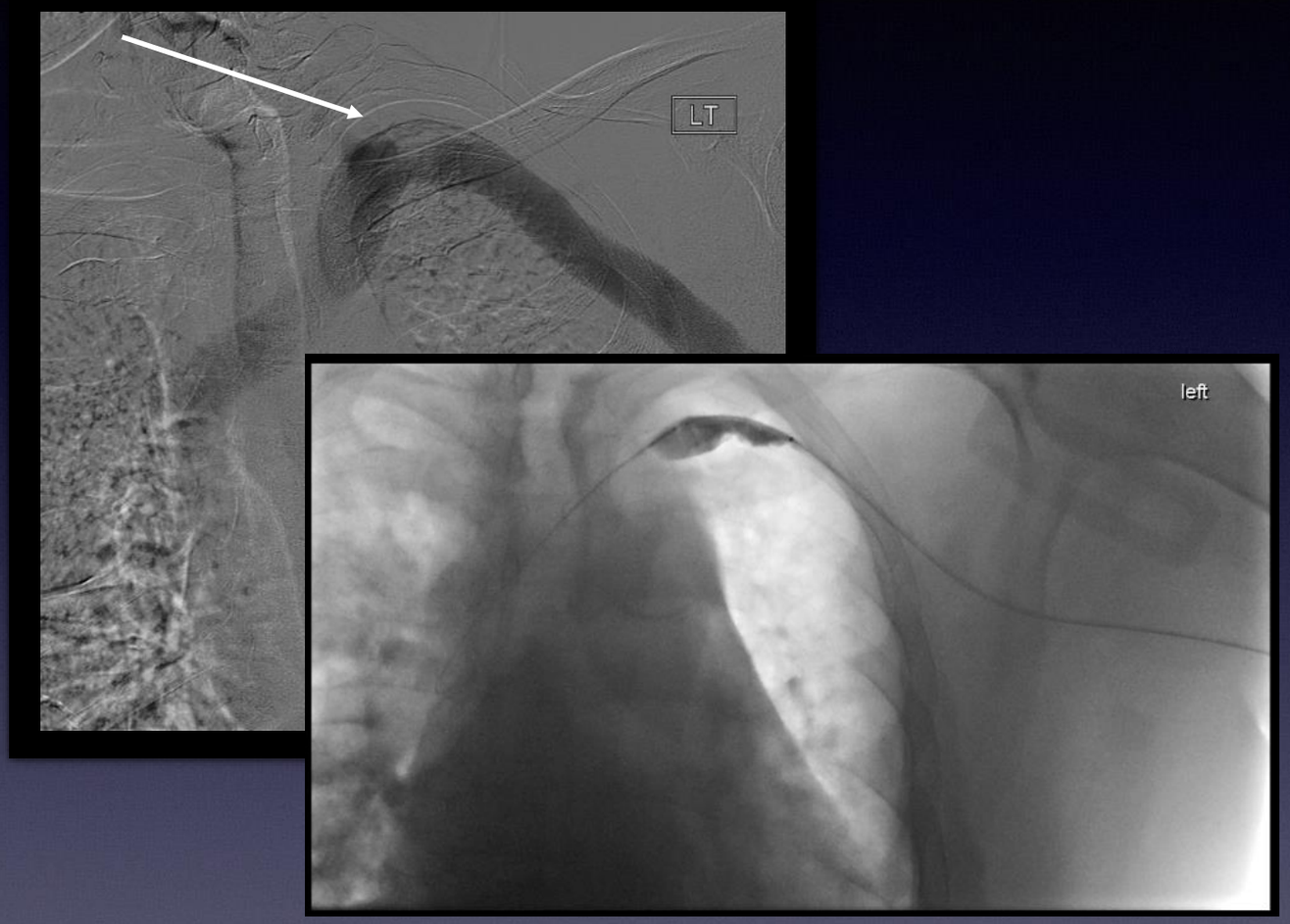
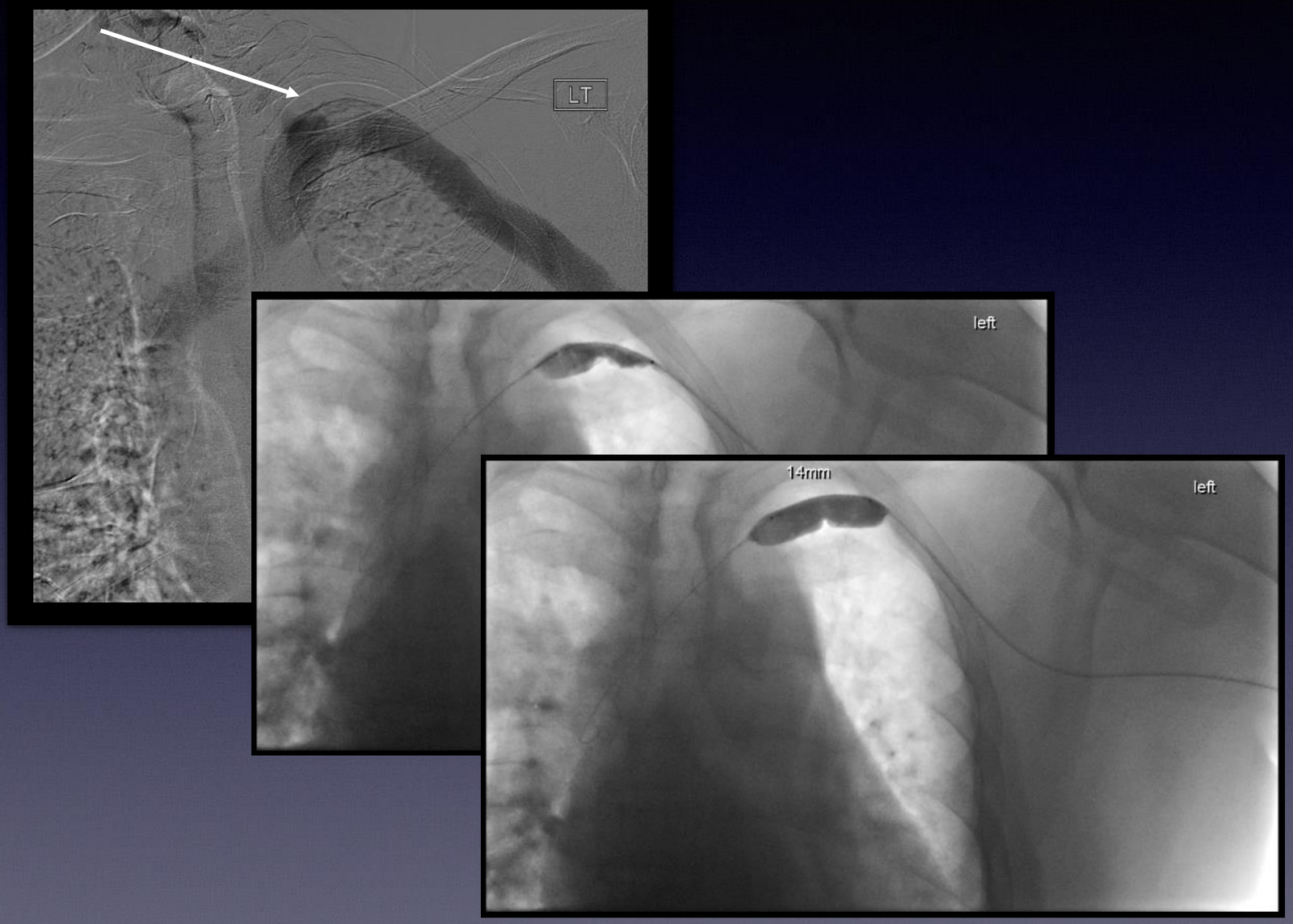
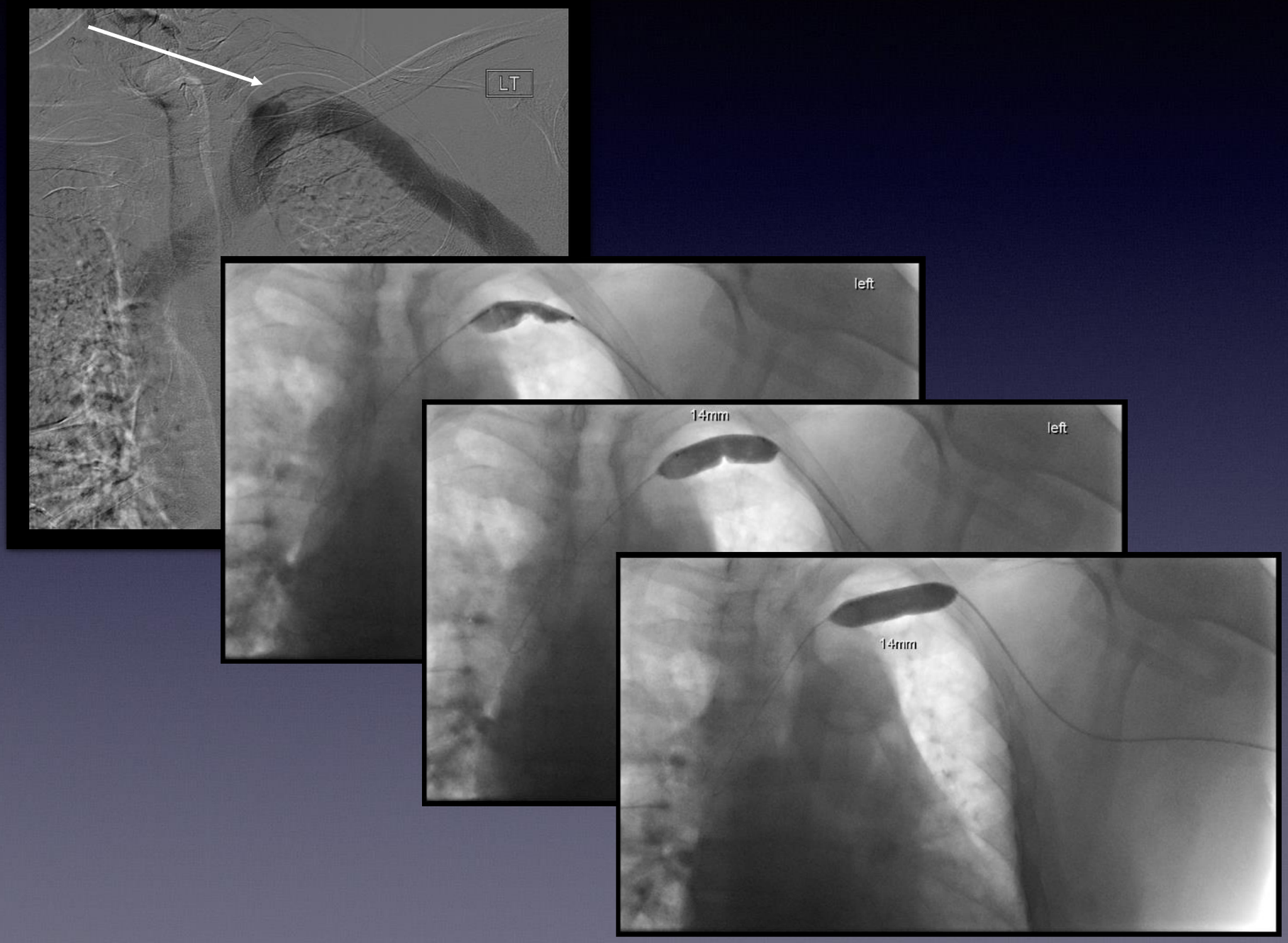


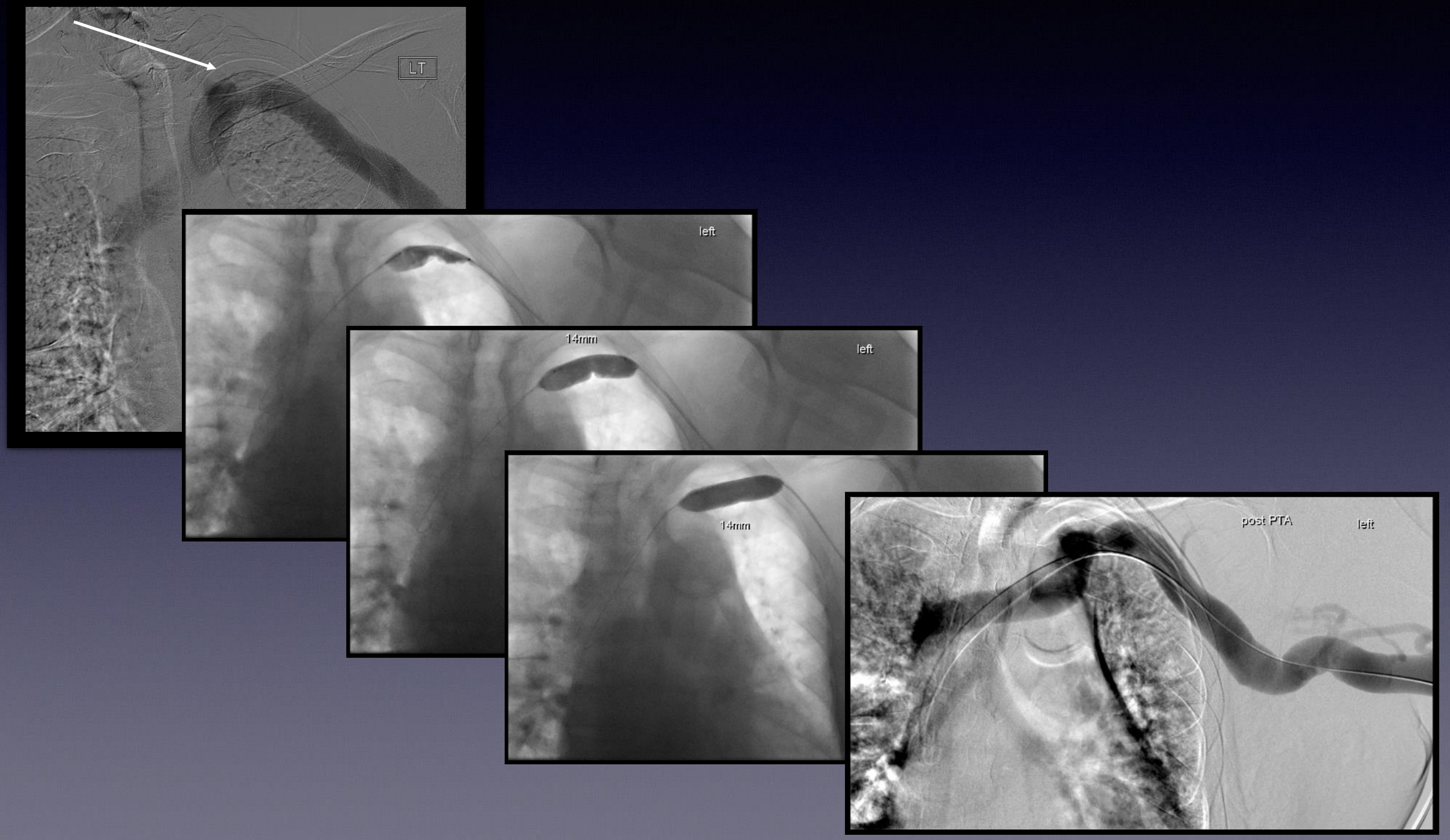
Simple Balloon Fistuloplasty



Simple Balloon Fistuloplasty



Simple Balloon Fistuloplasty



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Ligation

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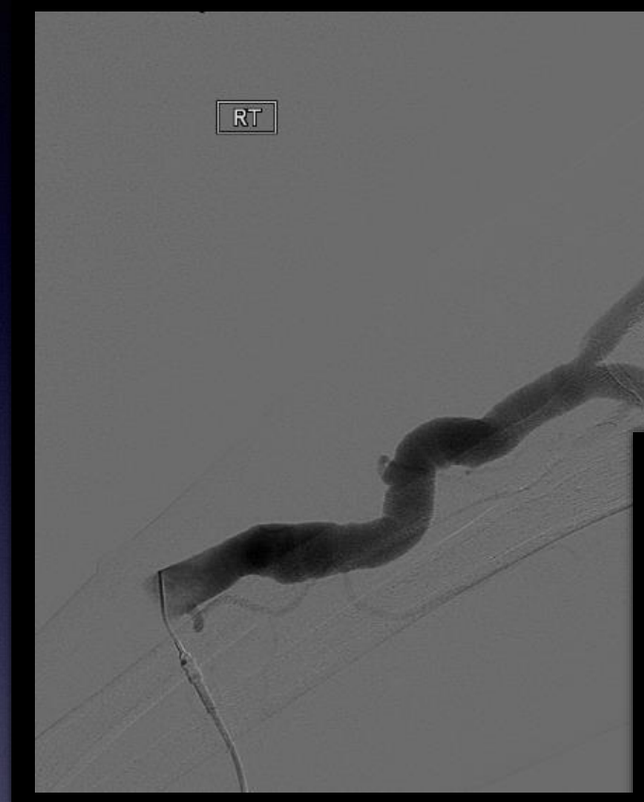

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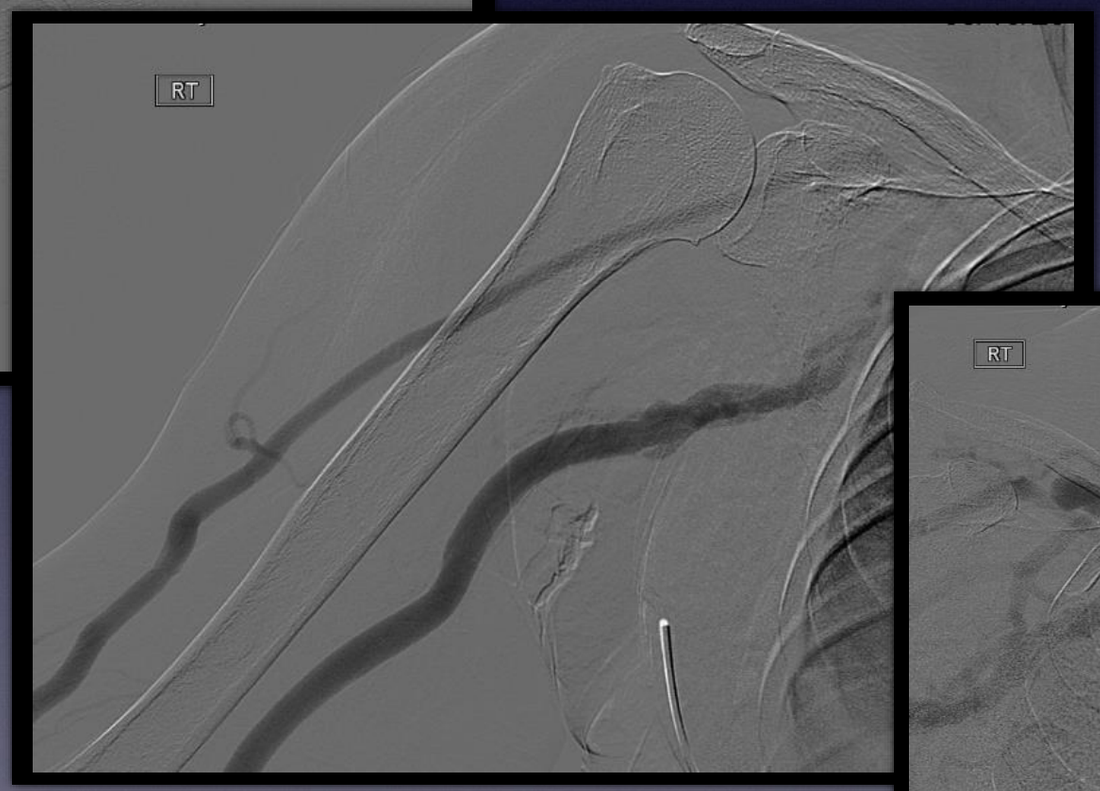

Banding

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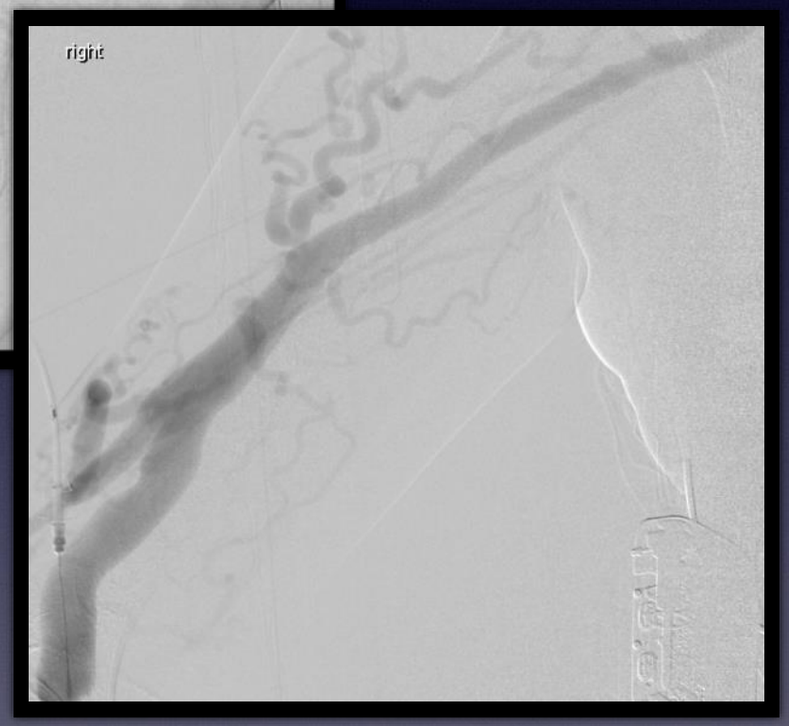

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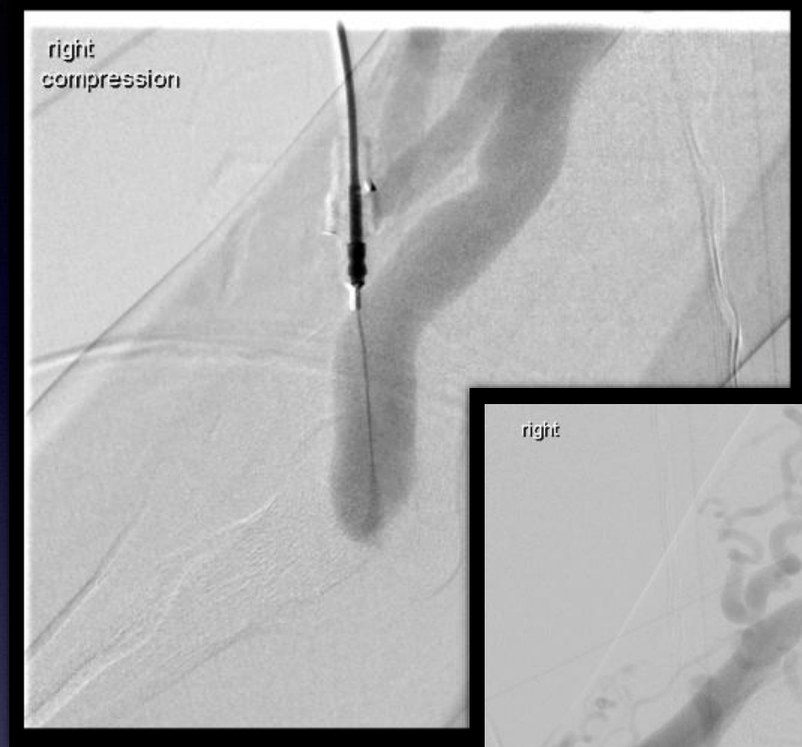

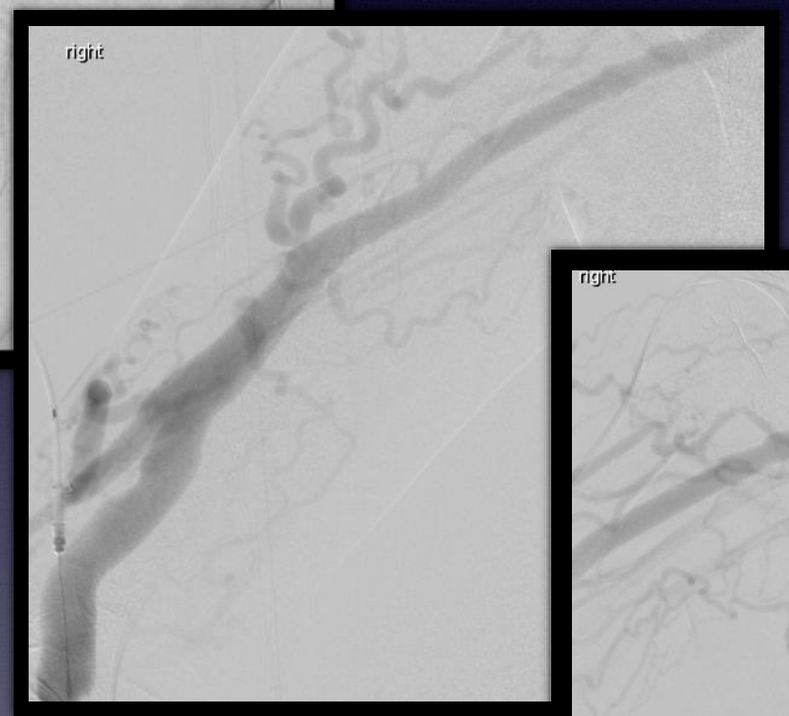

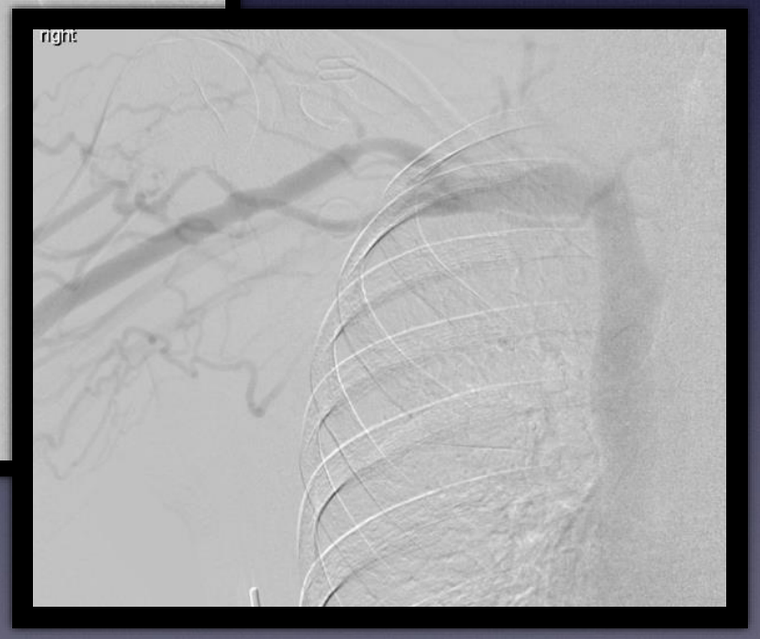

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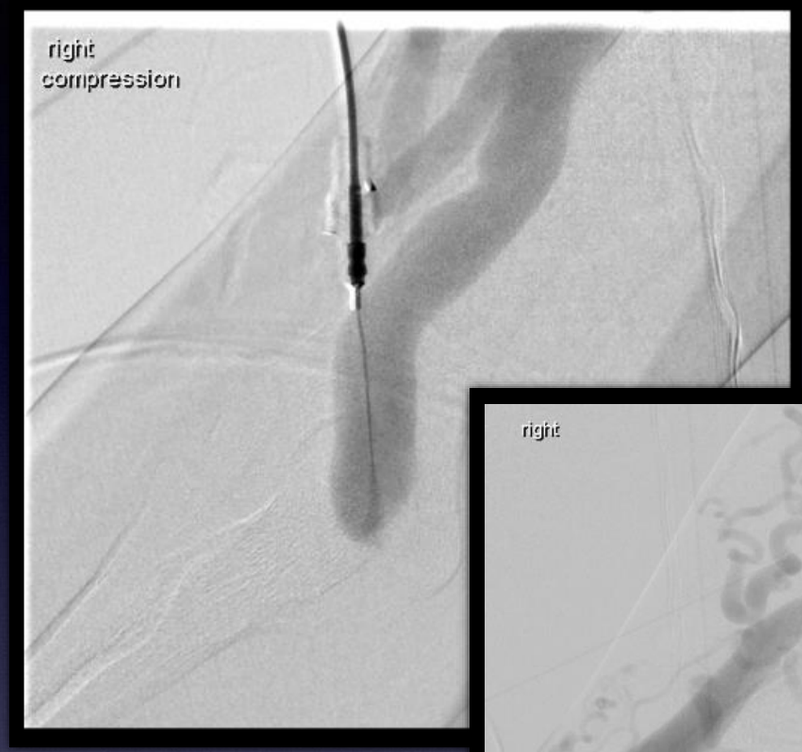

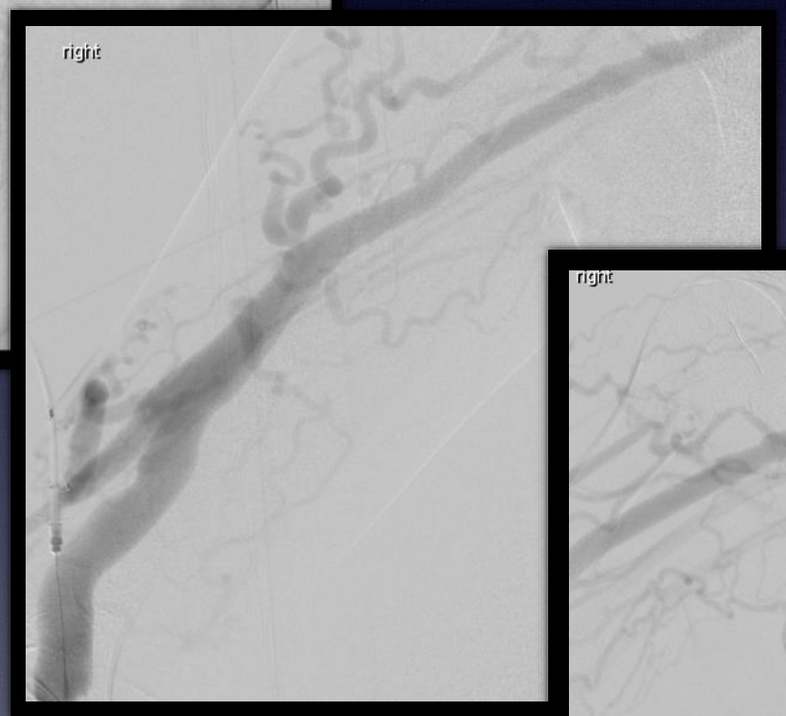

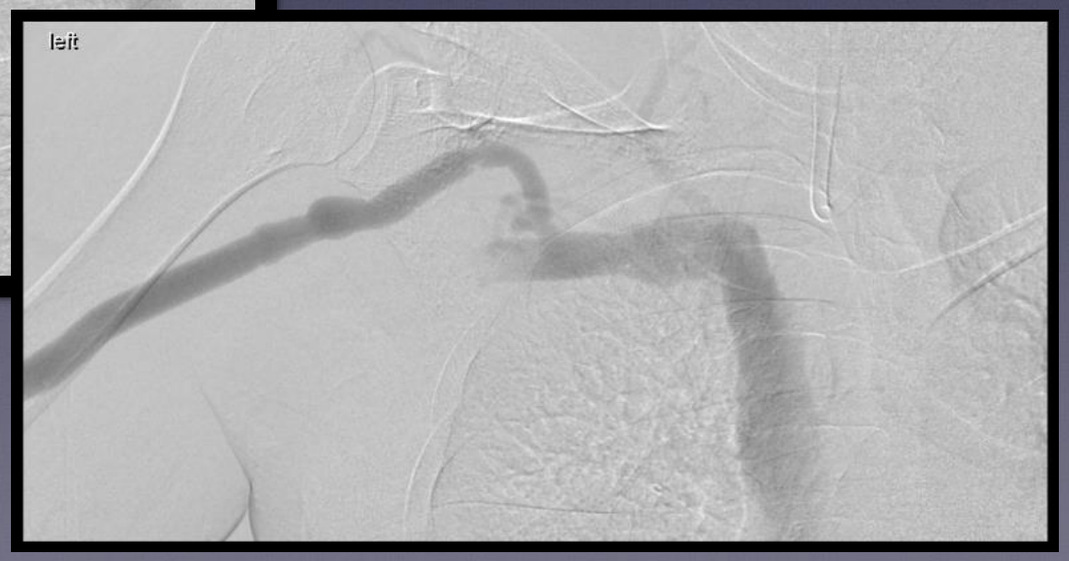

Surgical Patch Plasty

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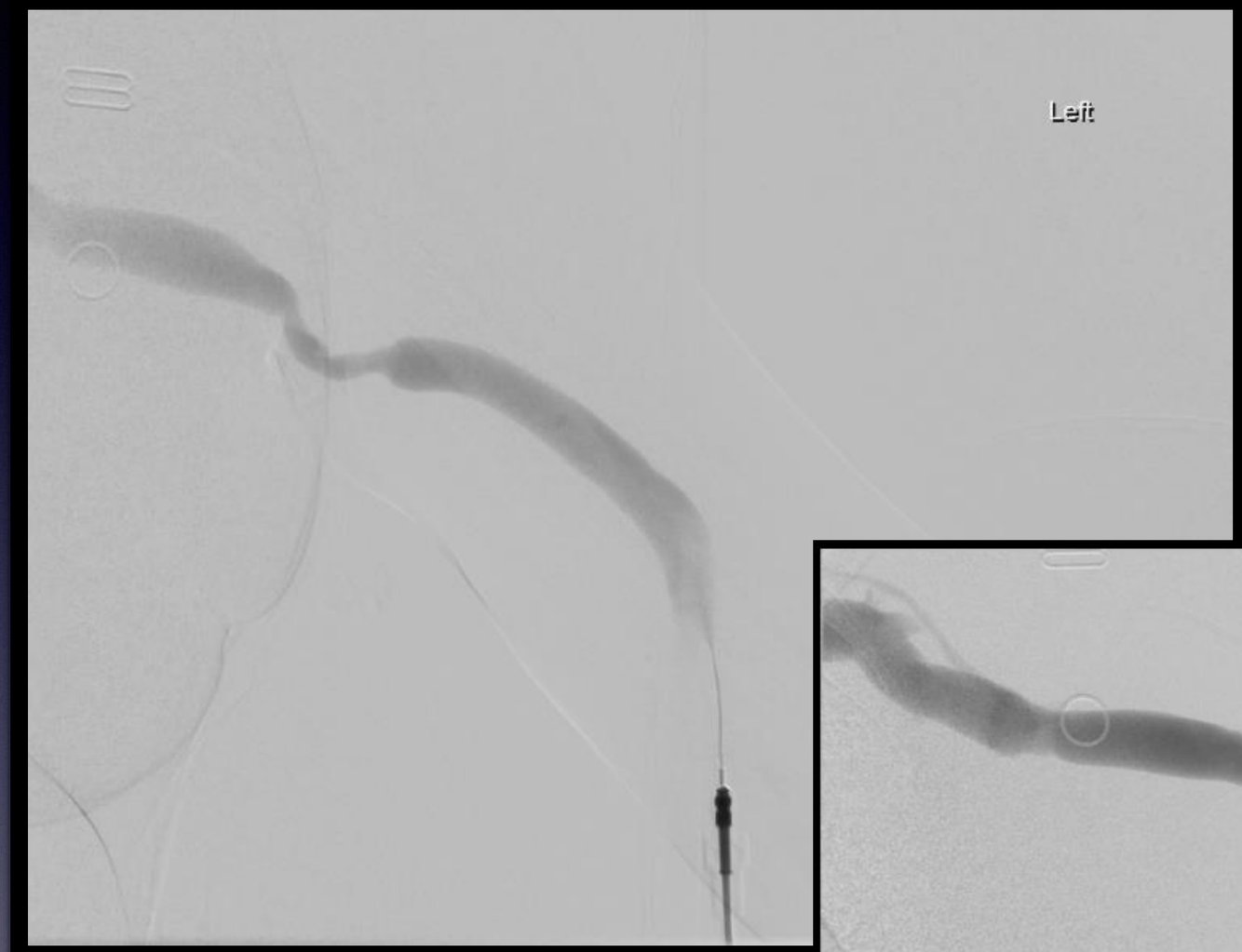

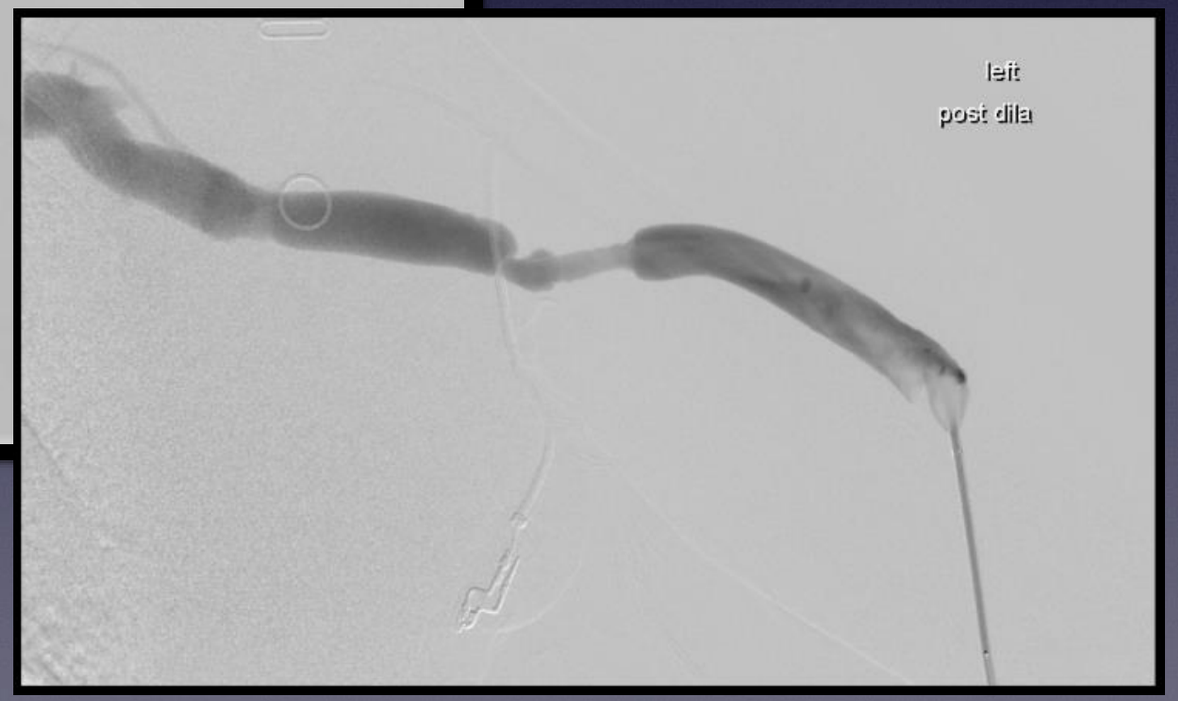

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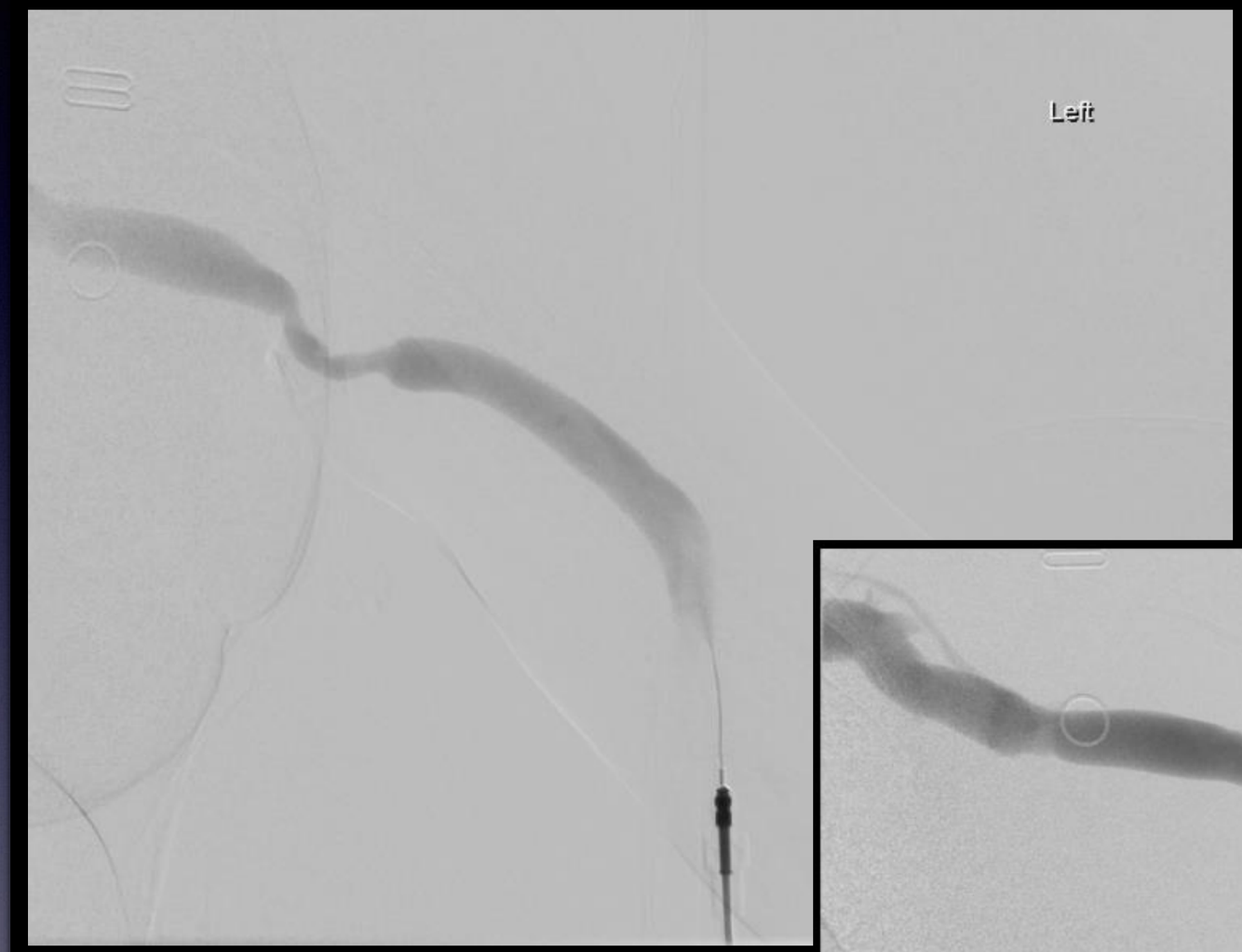
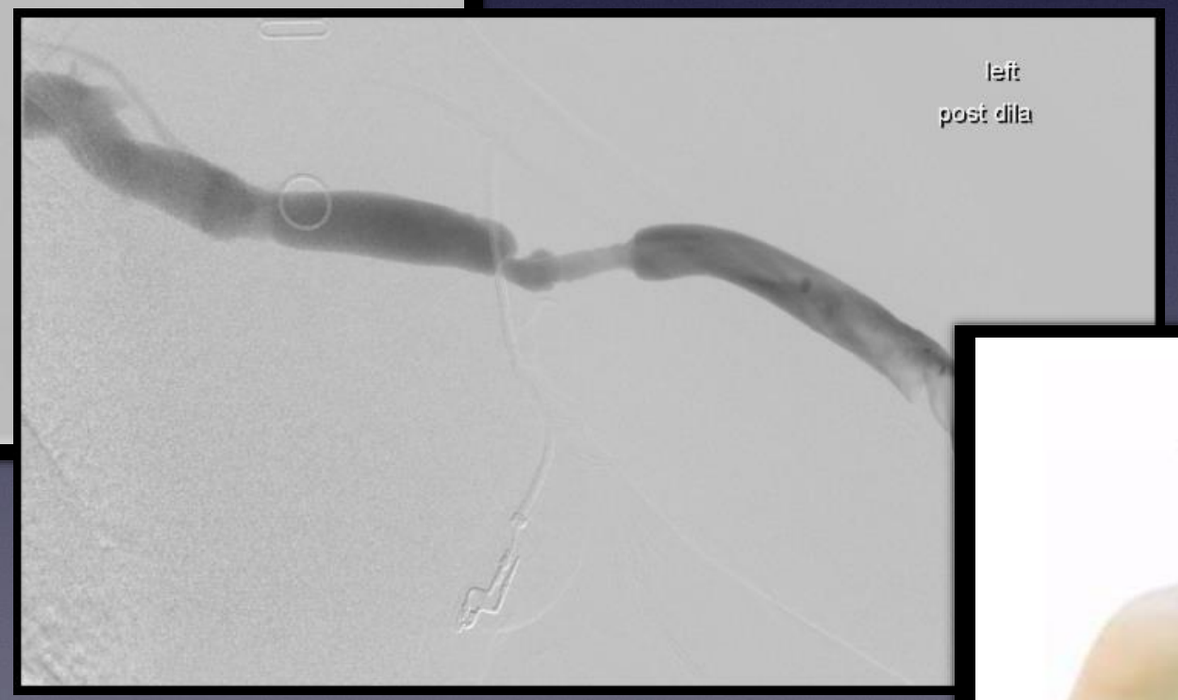
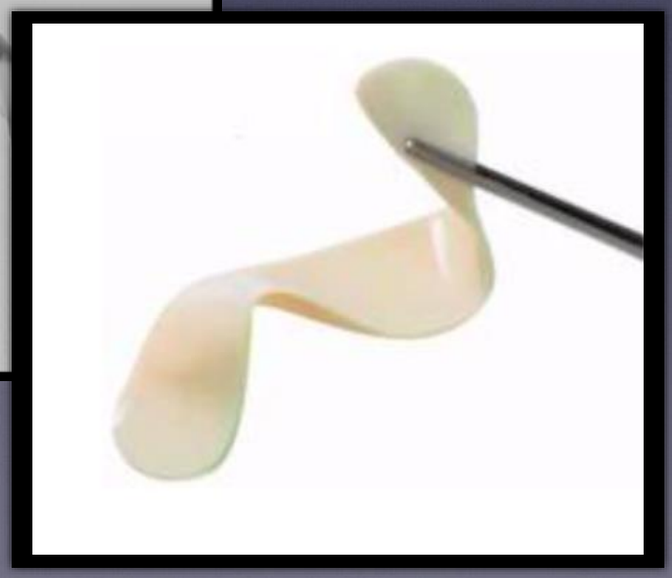
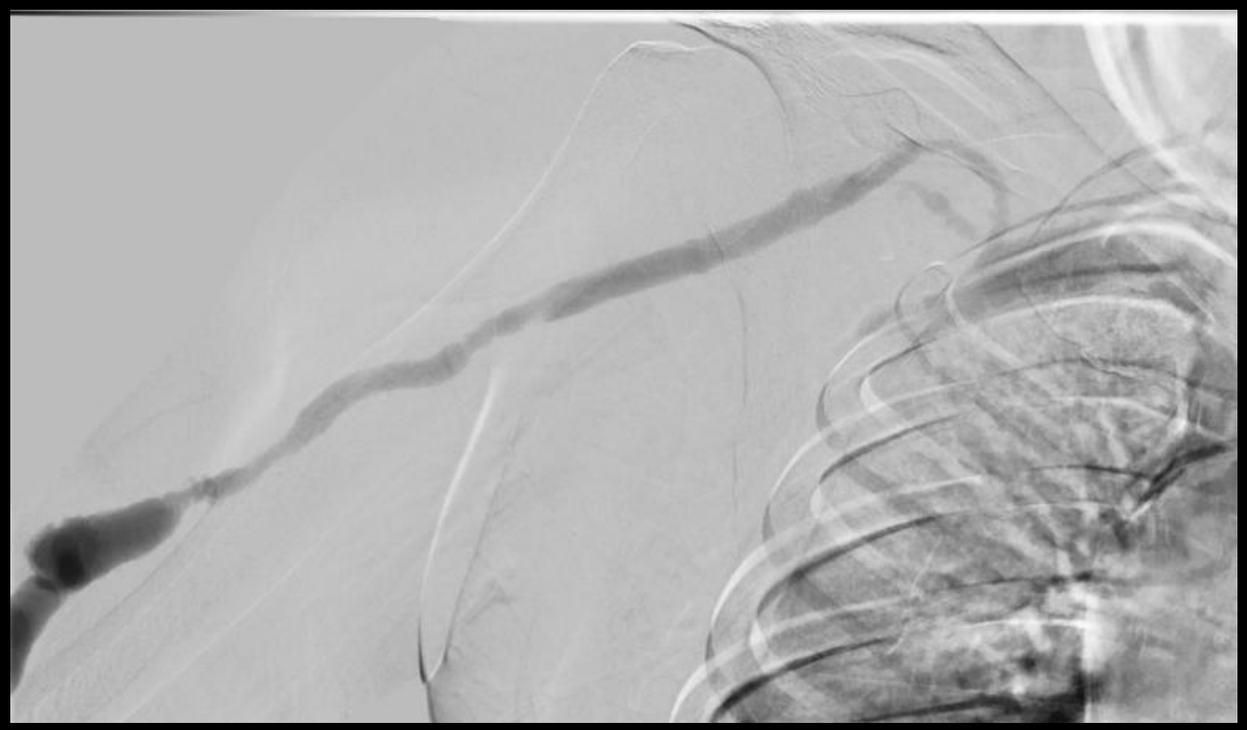






Axillary Vein PTFE Jump Graft



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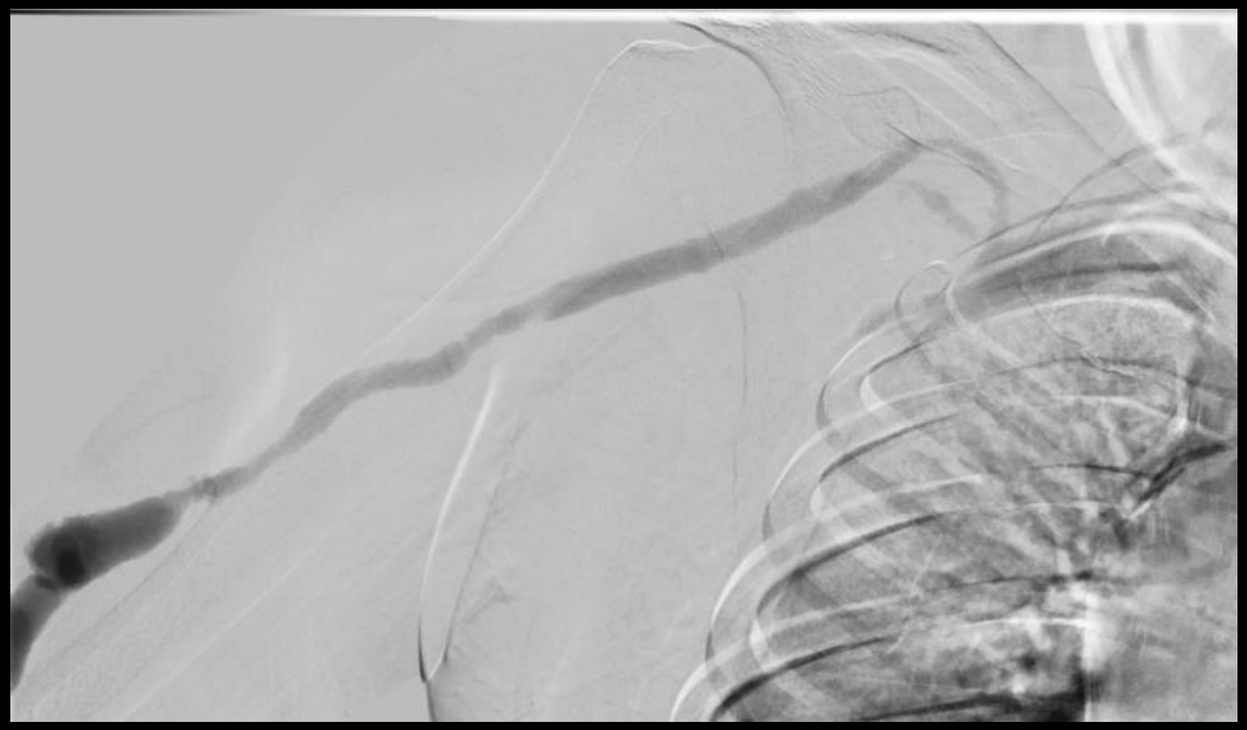

(Basilic vein can be used as well and may preserve venous real estate)

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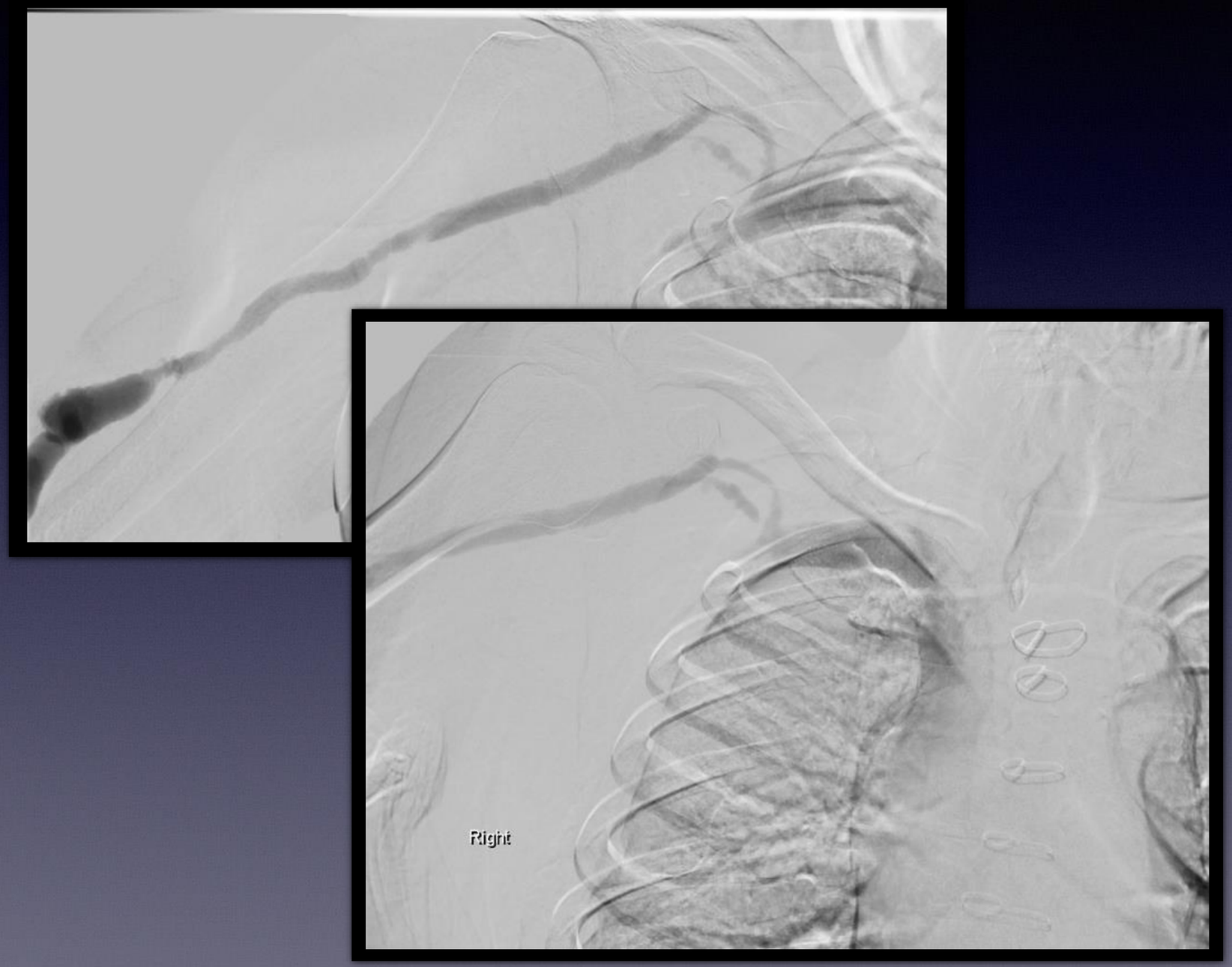

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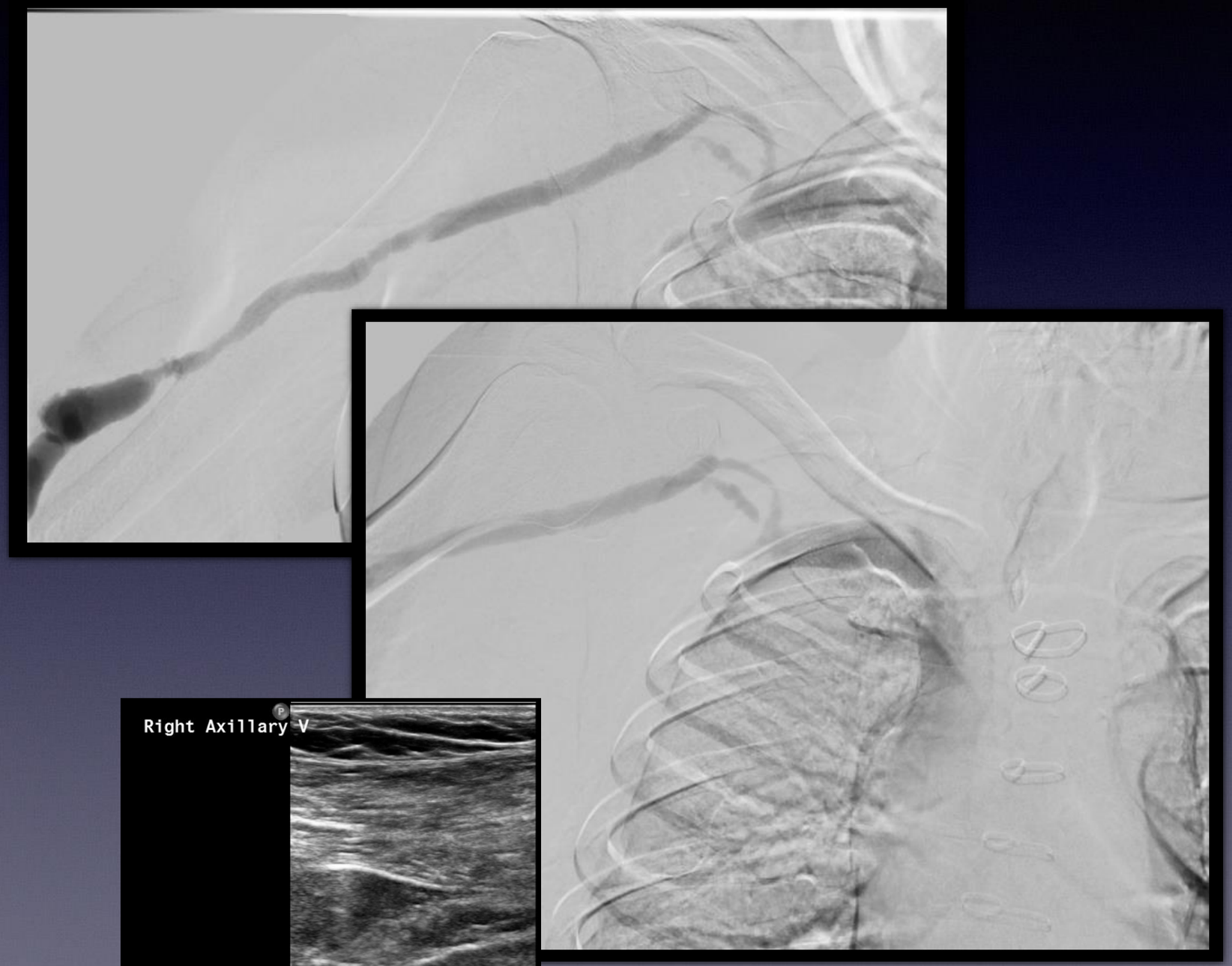

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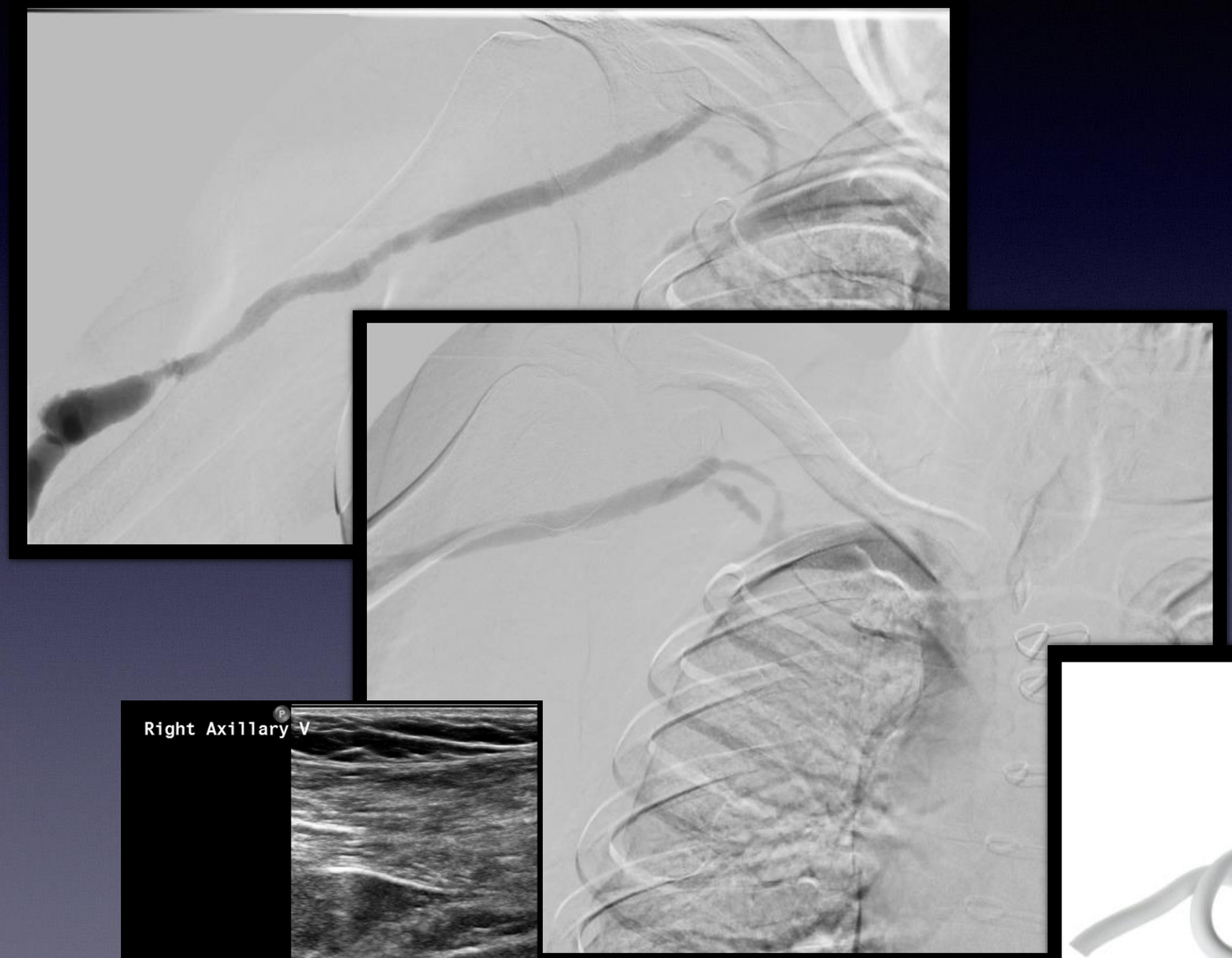

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Subclavian Vein PTFE Jump Graft

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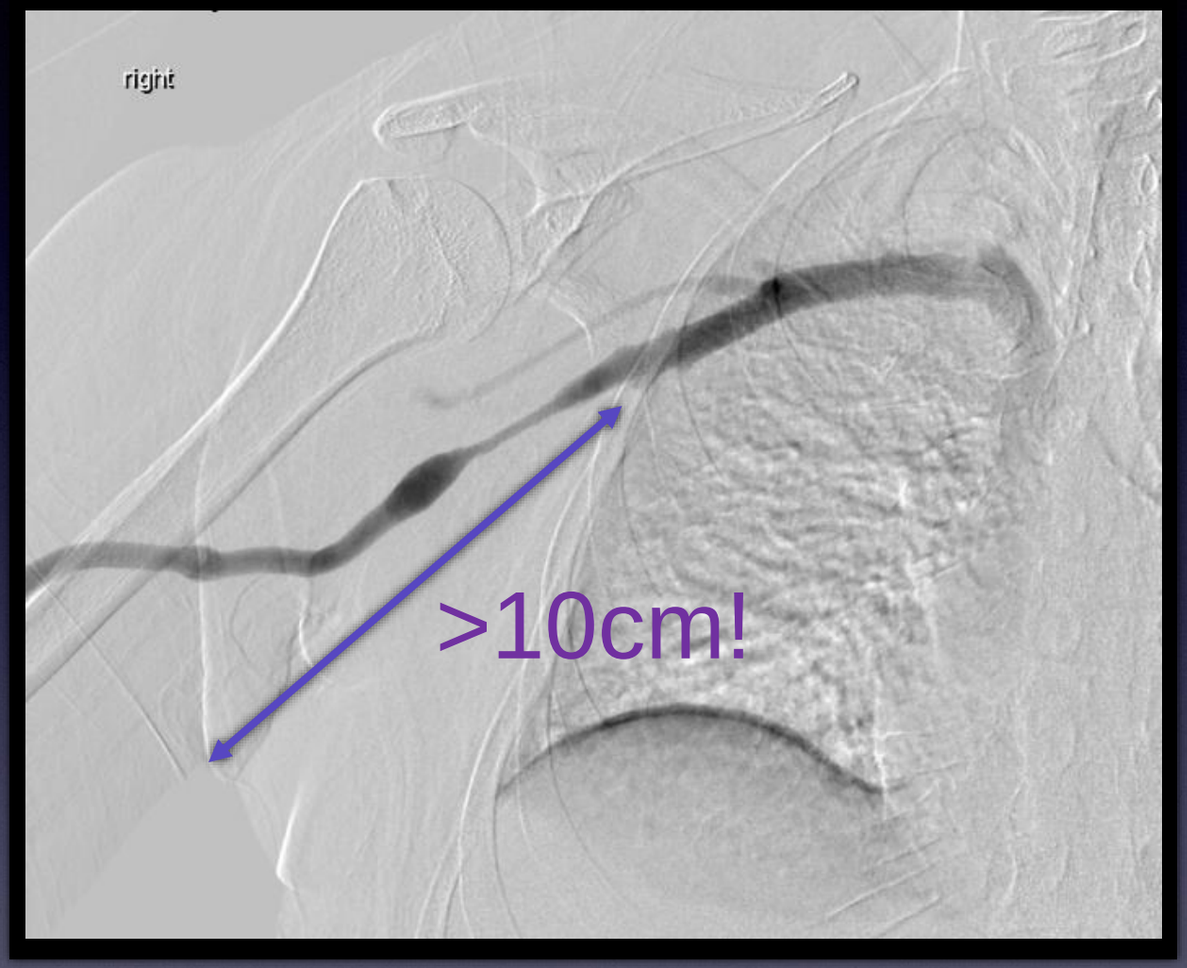

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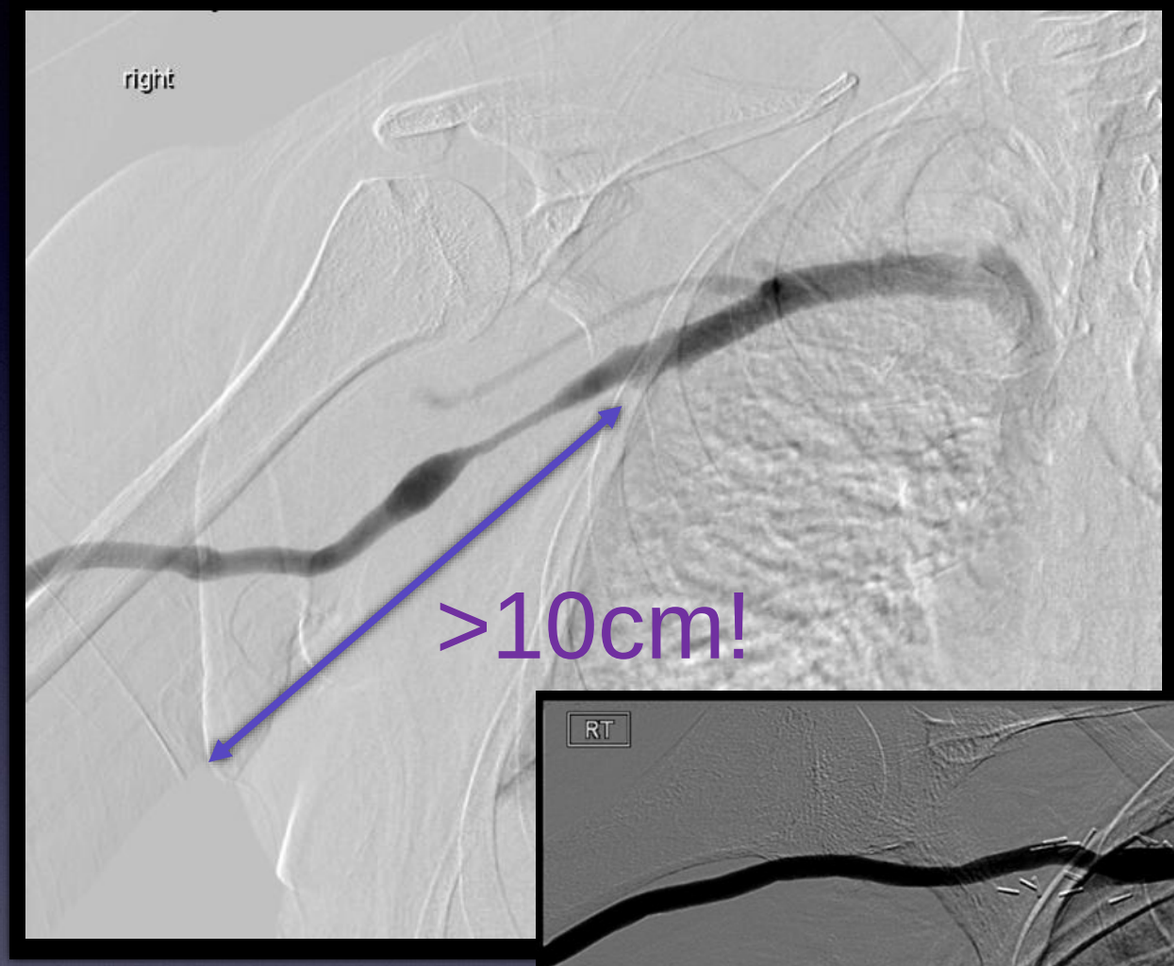

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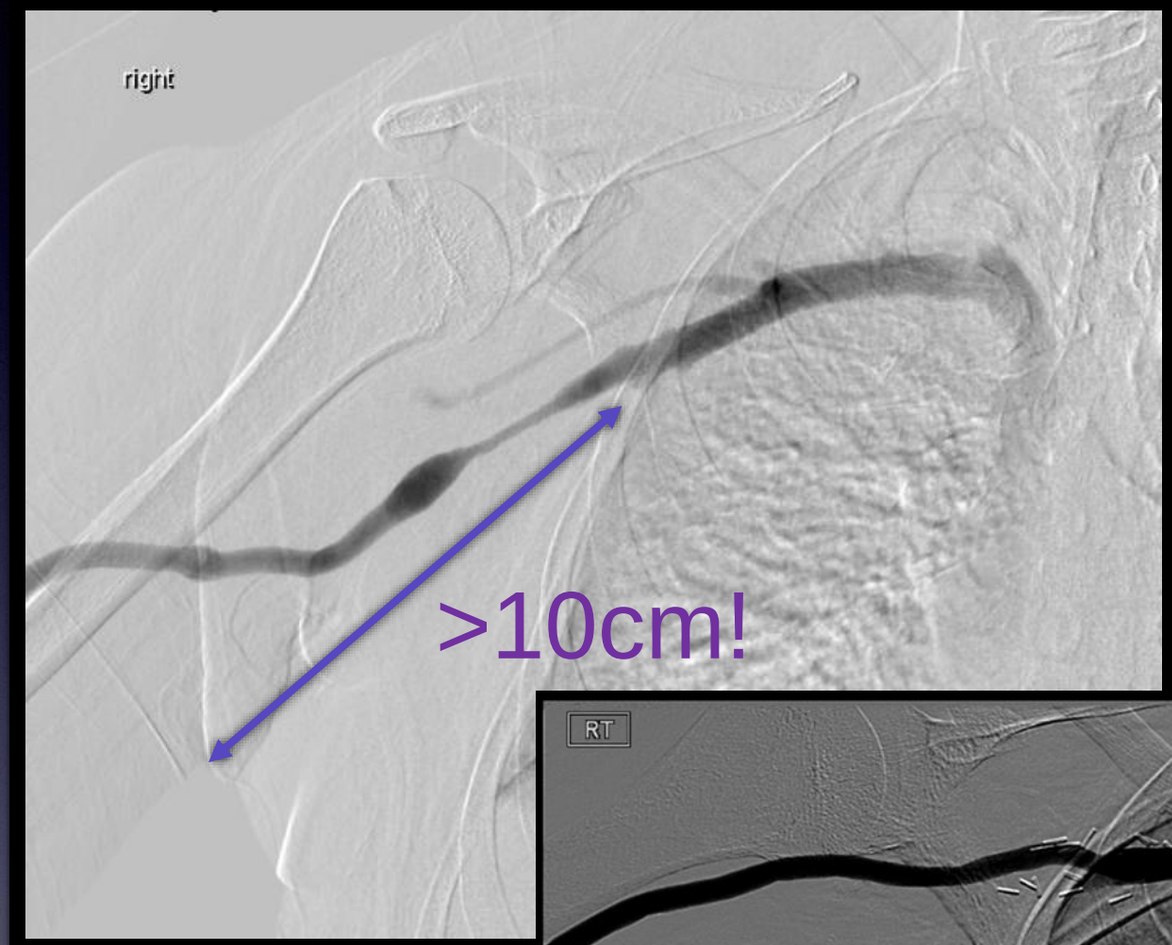
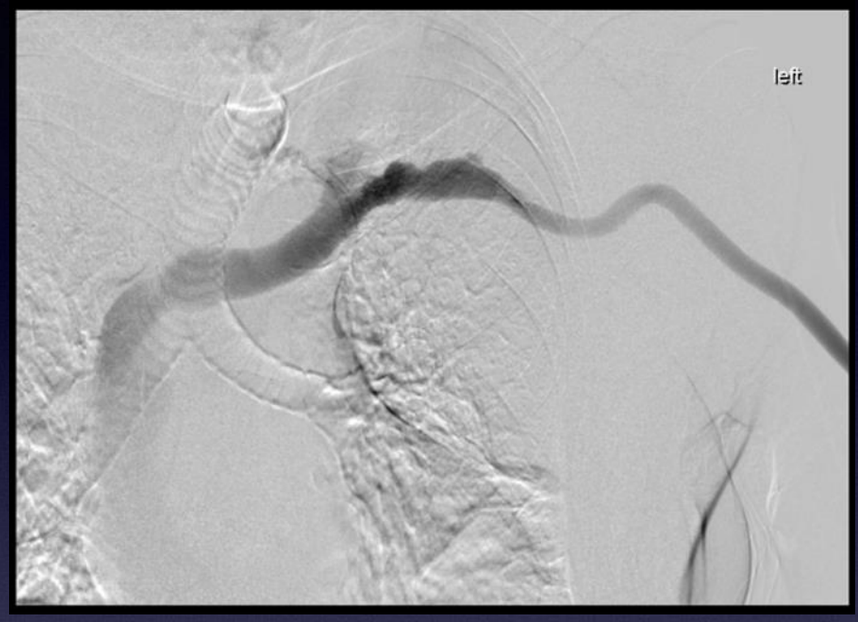
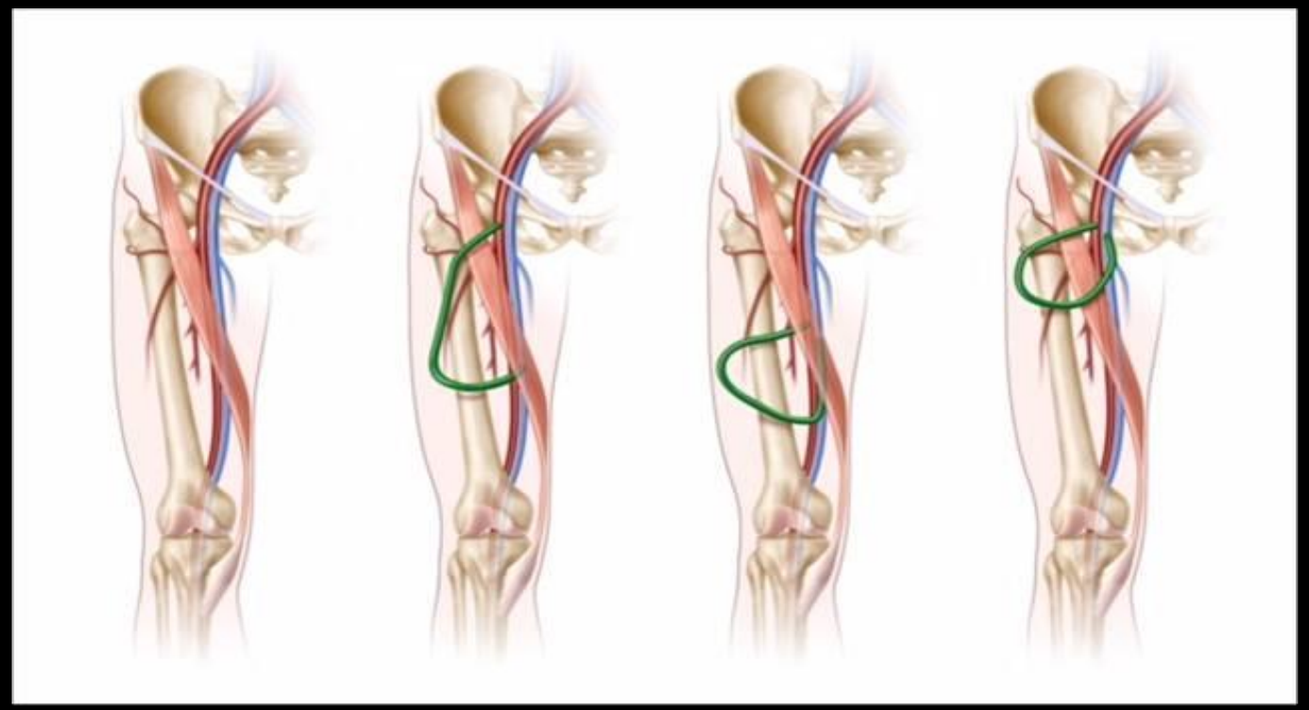




PTFE Leg Loops



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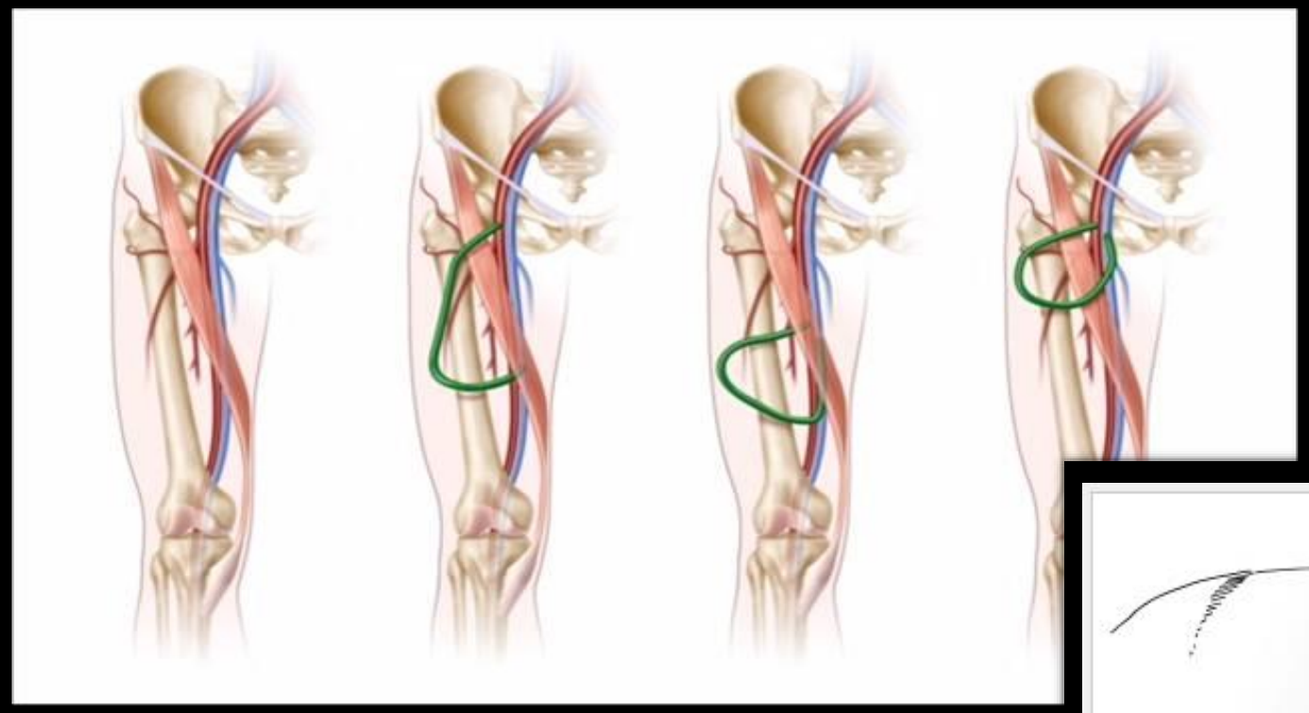

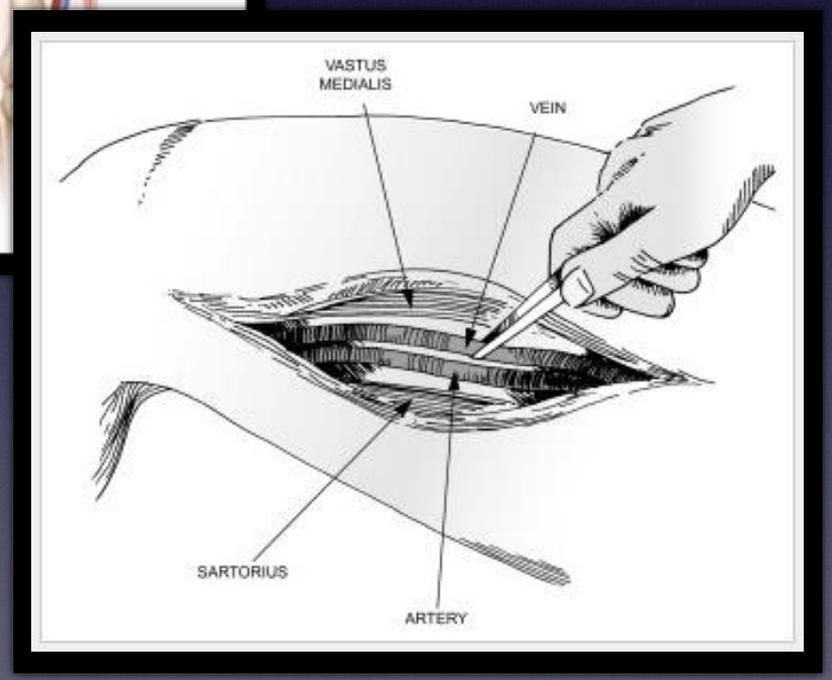

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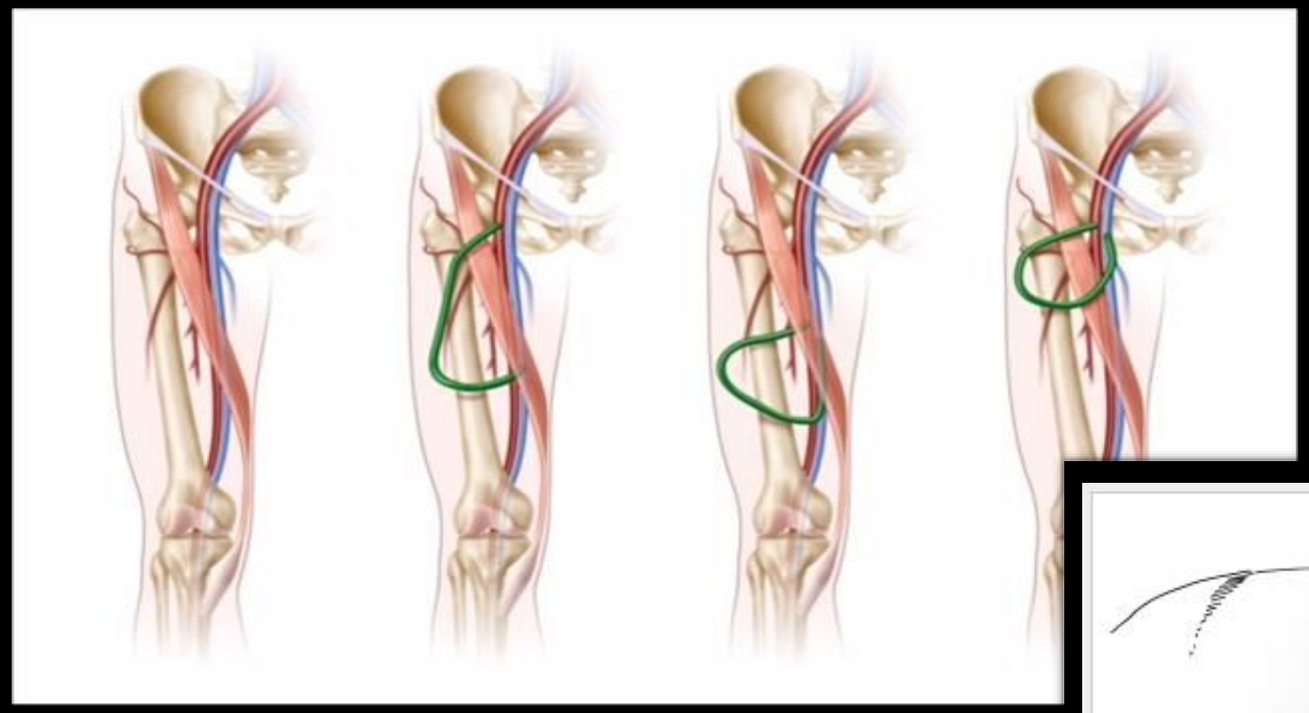
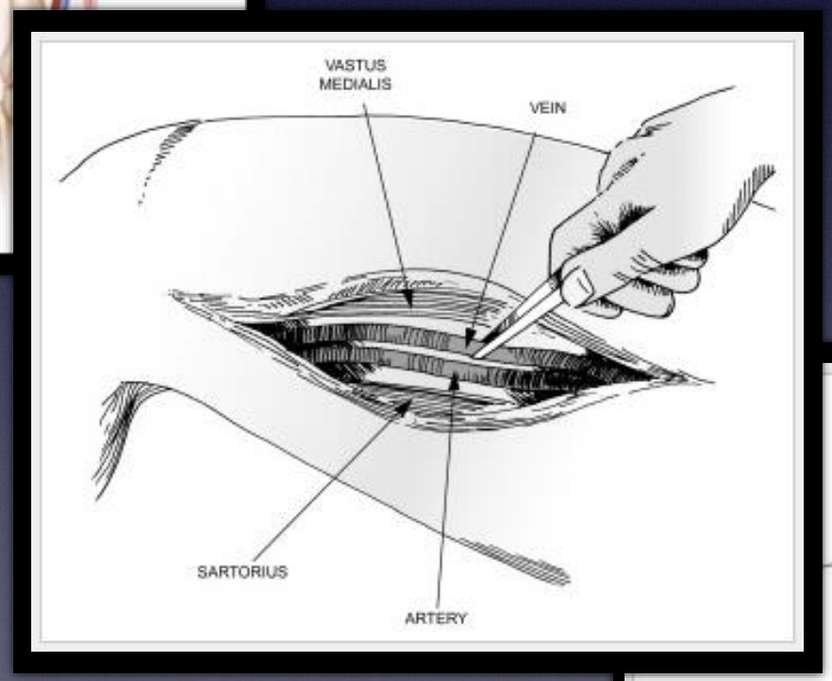
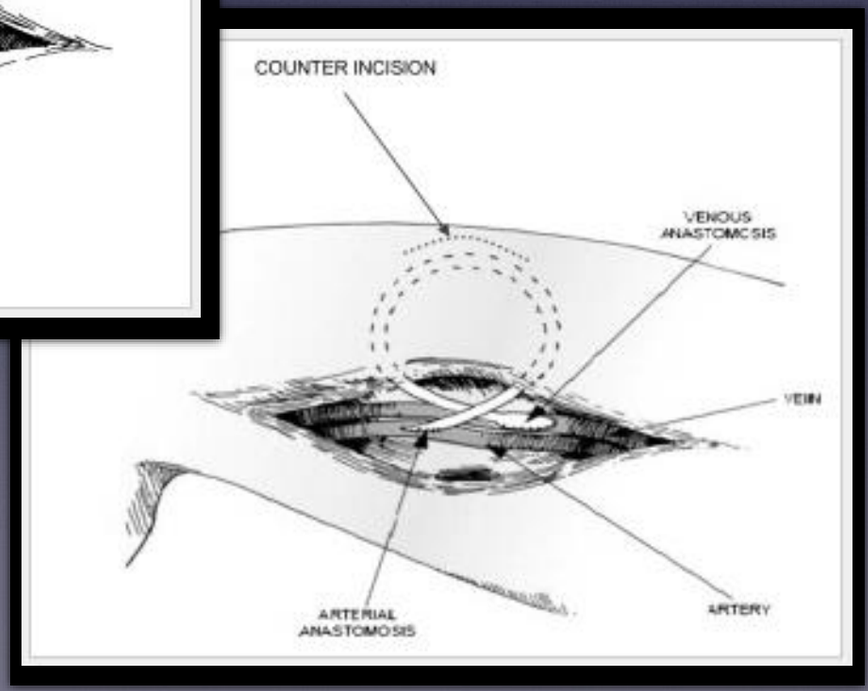






PTFE Leg Loops

The Journal of Vascular Access

Good long-term patency: 10-year follow-up using the mid-thigh adductor loop arteriovenous graft

Samantha J McEwan, Hannah Maple, Paul J Gibbs

Conclusion:

Autogenous venous access remains the perceived gold standard for patients requiring dialysis for end stage renal failure, despite some published data reporting poor outcomes. We have shown that adductor loop arteriovenous grafts can be a reliable, safe and long-term alternative in those whom fistula formation is not possible and may have a role earlier in the patient journey than previously thought, as a result of good patency and lower complications.

Lower Limb AVFs

Annals of Vascular Surgery

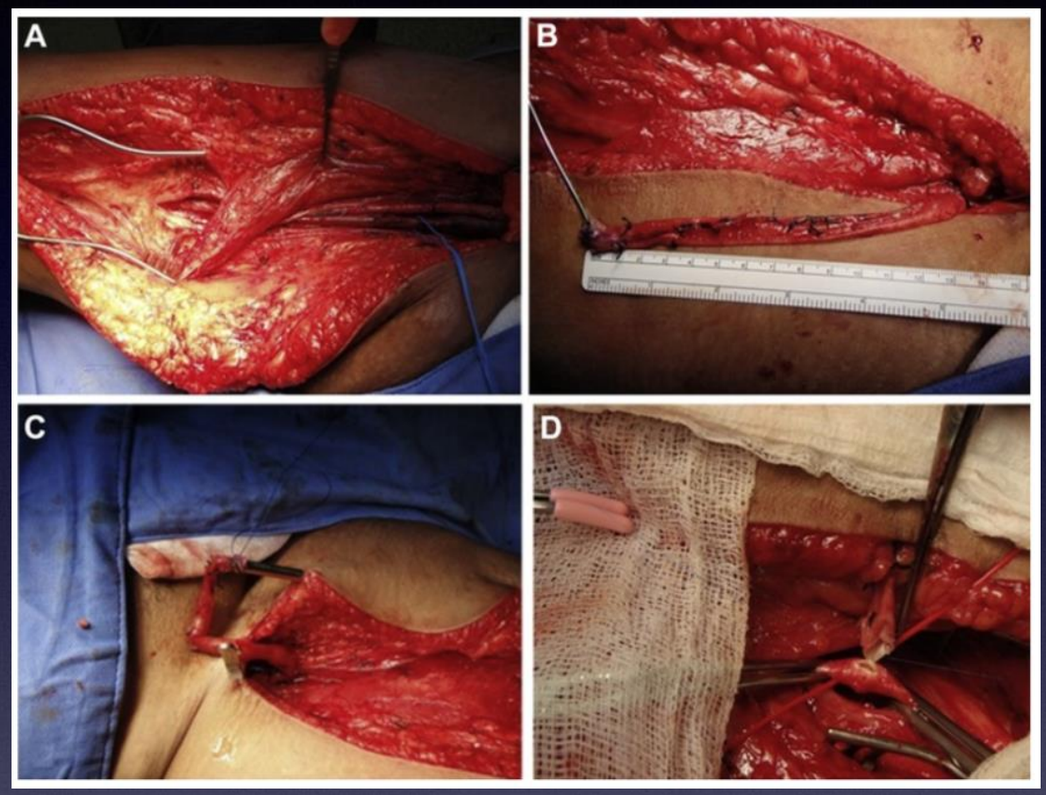
Available online 14 August 2018

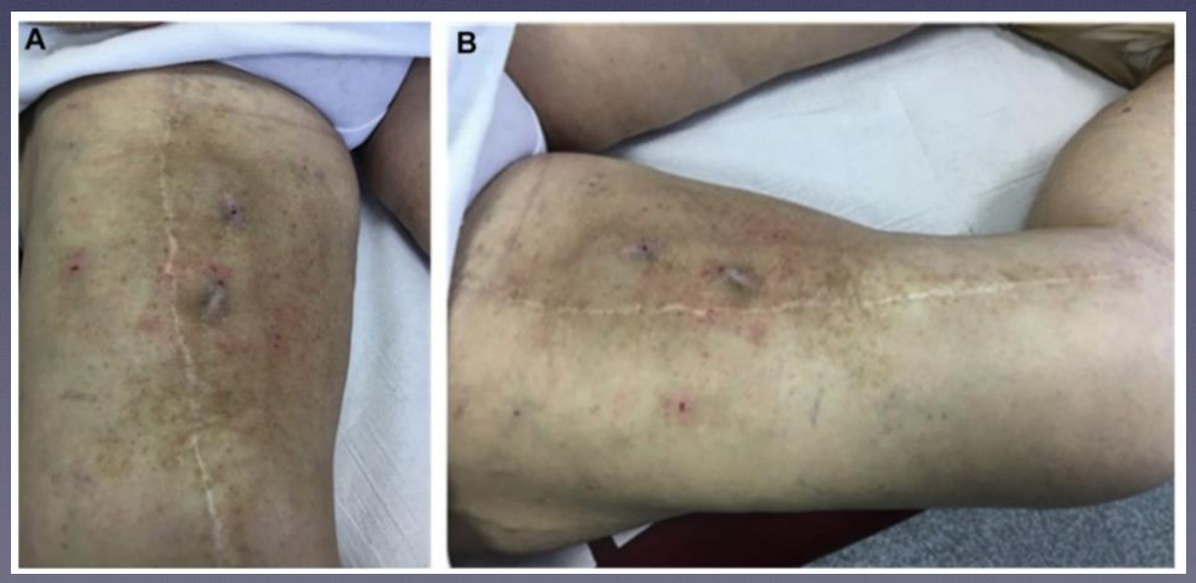
The Transposed Femoral Vein Fistula: The Native Choice in Desperate Vascular Access

Rebecca Lefroy [1], Nikesh Dattani [1], Mariane Reyes [2], Sriram Rajagopalan [1], Jack Fairhead [1], Anthony Jaipersad [1], Lorraine Corfield [1], John Asquith [3], Michael W. Greenway [4], Arun Pherwani [1]

Conclusions

Our patient group showed good fistula patency at 1 year and did not experience any incidence of ischemic steal syndrome. We believe this to be due to careful preoperative patient assessment and meticulous surgical technique. Our experience suggests that such procedures should be performed by surgeons with vascular expertise wherever possible to reduce the incidence of complications.





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Stent Grafts

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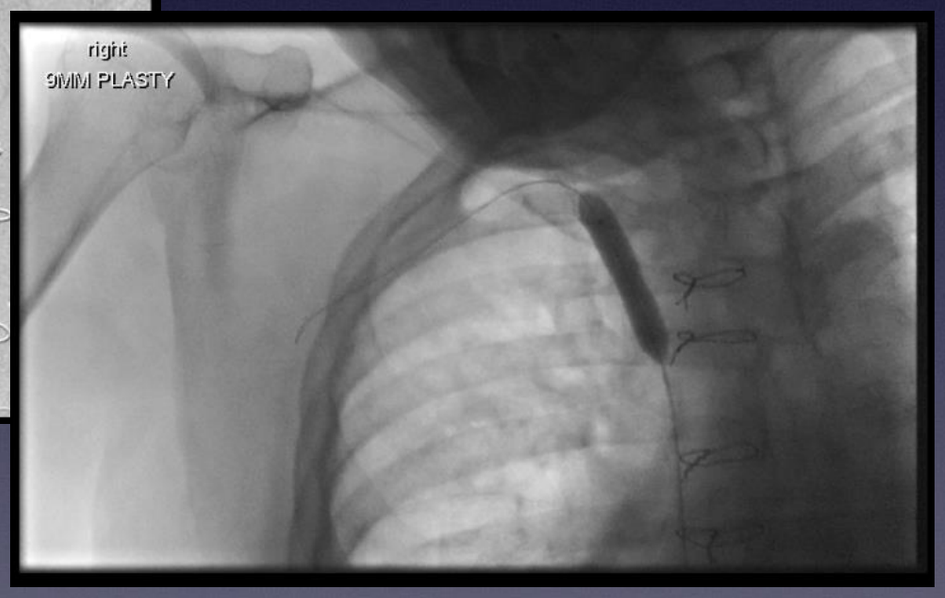
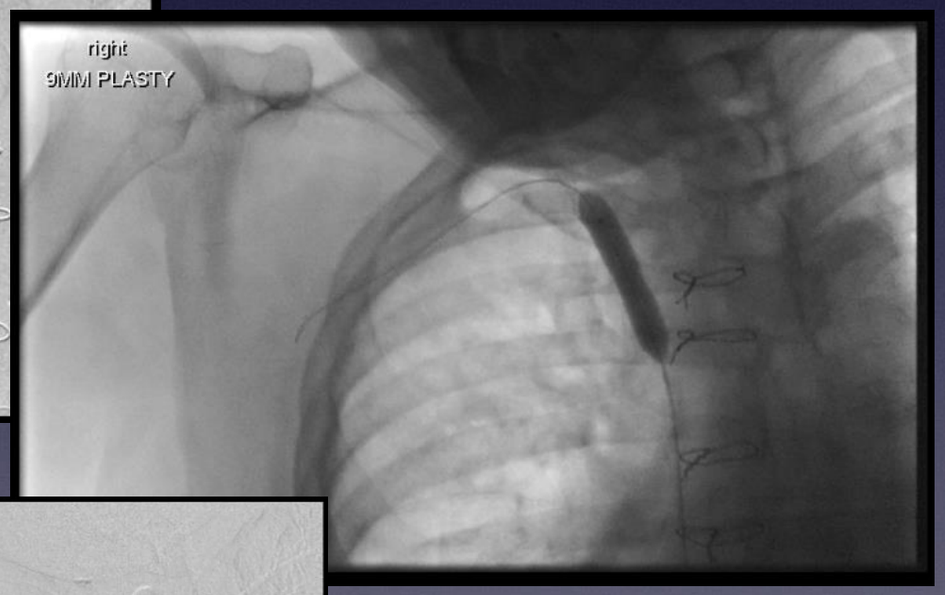
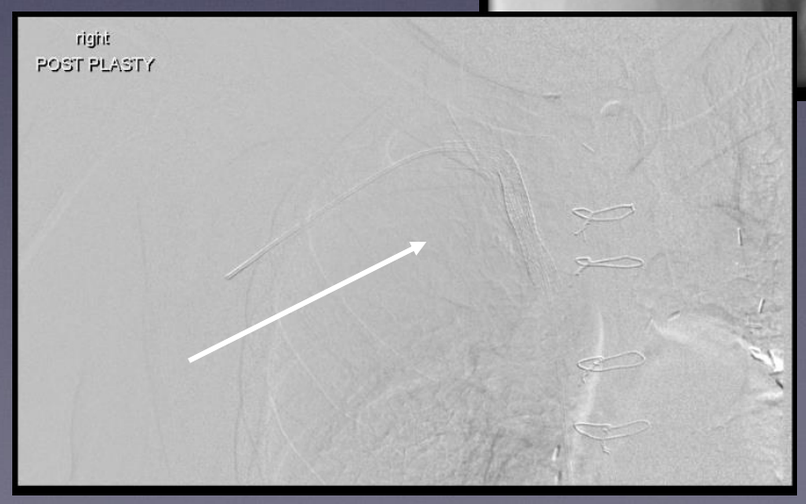


Stent Grafts





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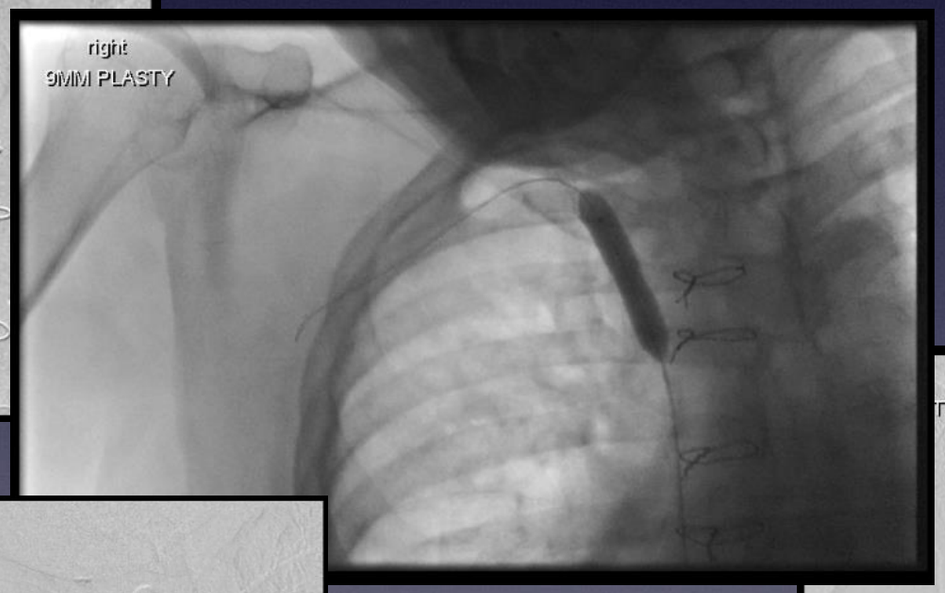

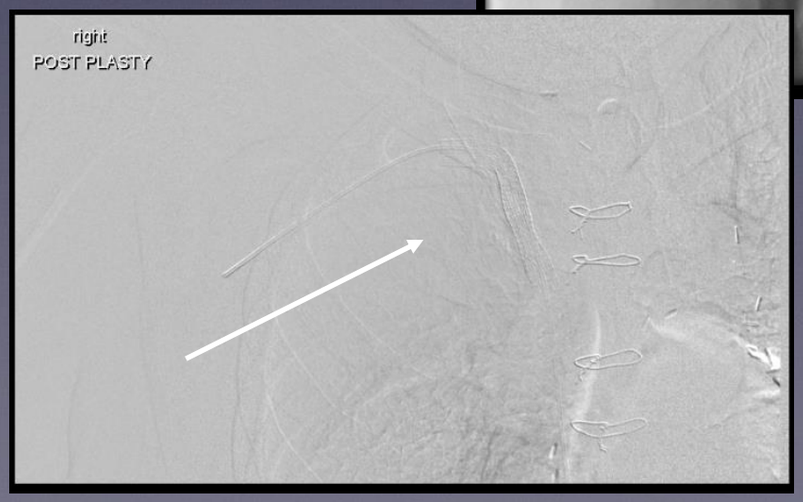

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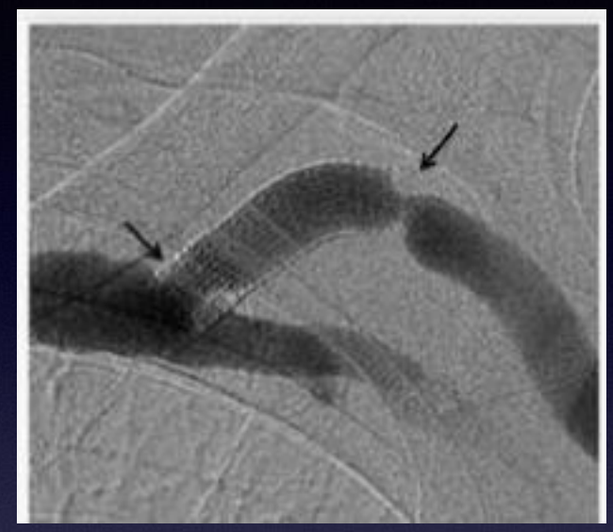
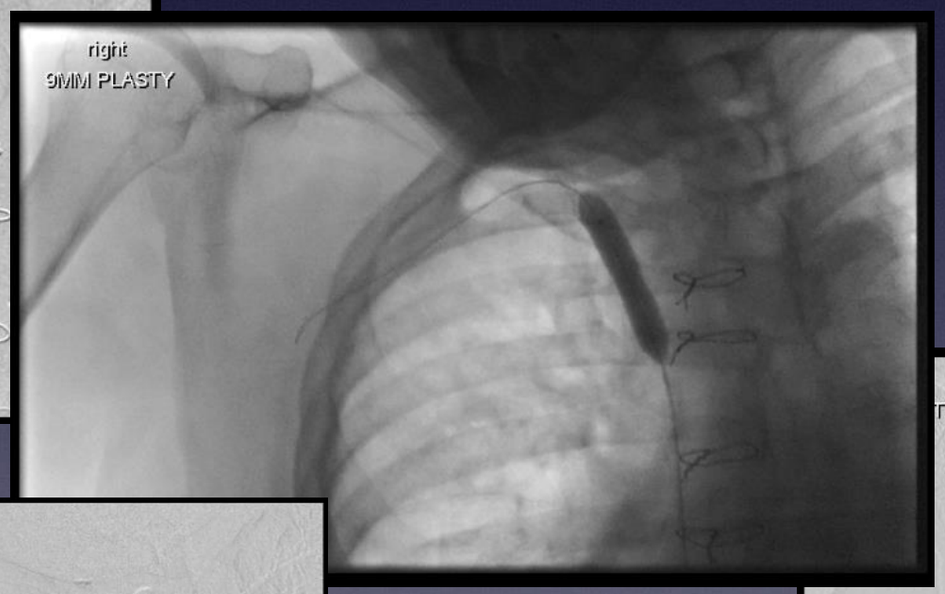




Stent Grafts

JVIR
Journal of Vascular and Interventional Radiology

A Randomized Prospective Study Comparing Outcomes of Angioplasty versus VIABAHN Stent-Graft Placement for Cephalic Arch Stenosis in Dysfunctional Hemodialysis Accesses

Dheeraj K. Rajan, MD, FRCPC, Abigail Falk, MD

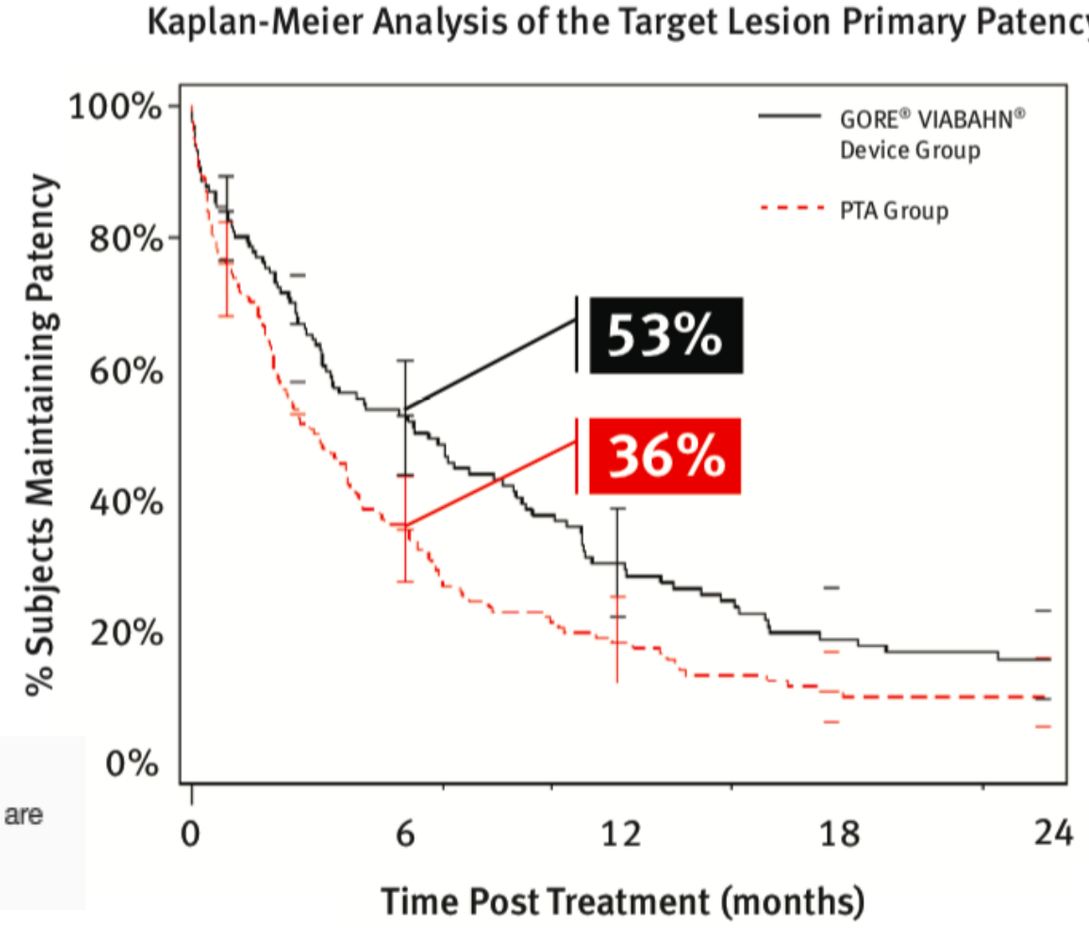
Purpose

To determine if postintervention cephalic arch stenosis (CAS) primary patency and access circuit patency are superior with the VIABAHN stent graft compared with angioplasty at 3, 6, and 12 months.

Conclusions

Treatment of CAS with the VIABAHN stent graft appears to provide statistically superior primary patency rates compared with balloon angioplasty.

PROVEN TO INCREASE TIME TO NEXT INTERVENTION



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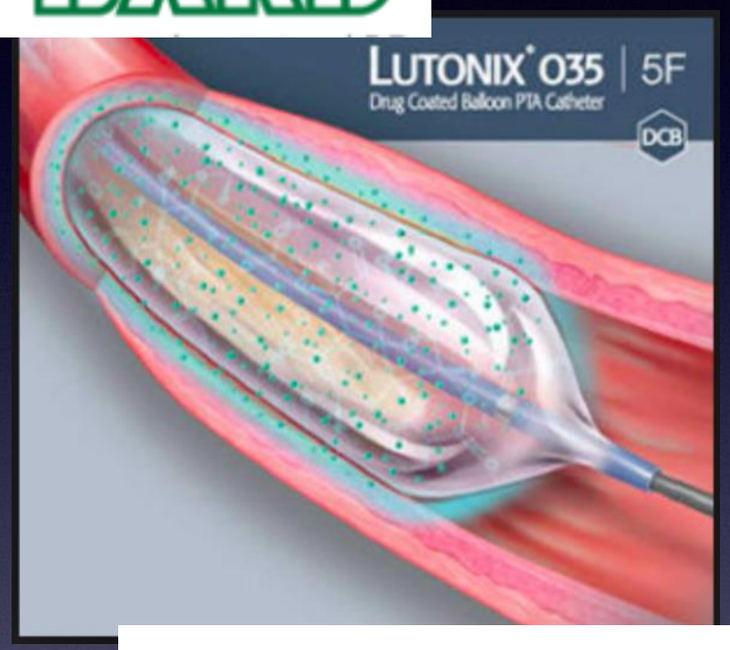
Drug Coated Balloons

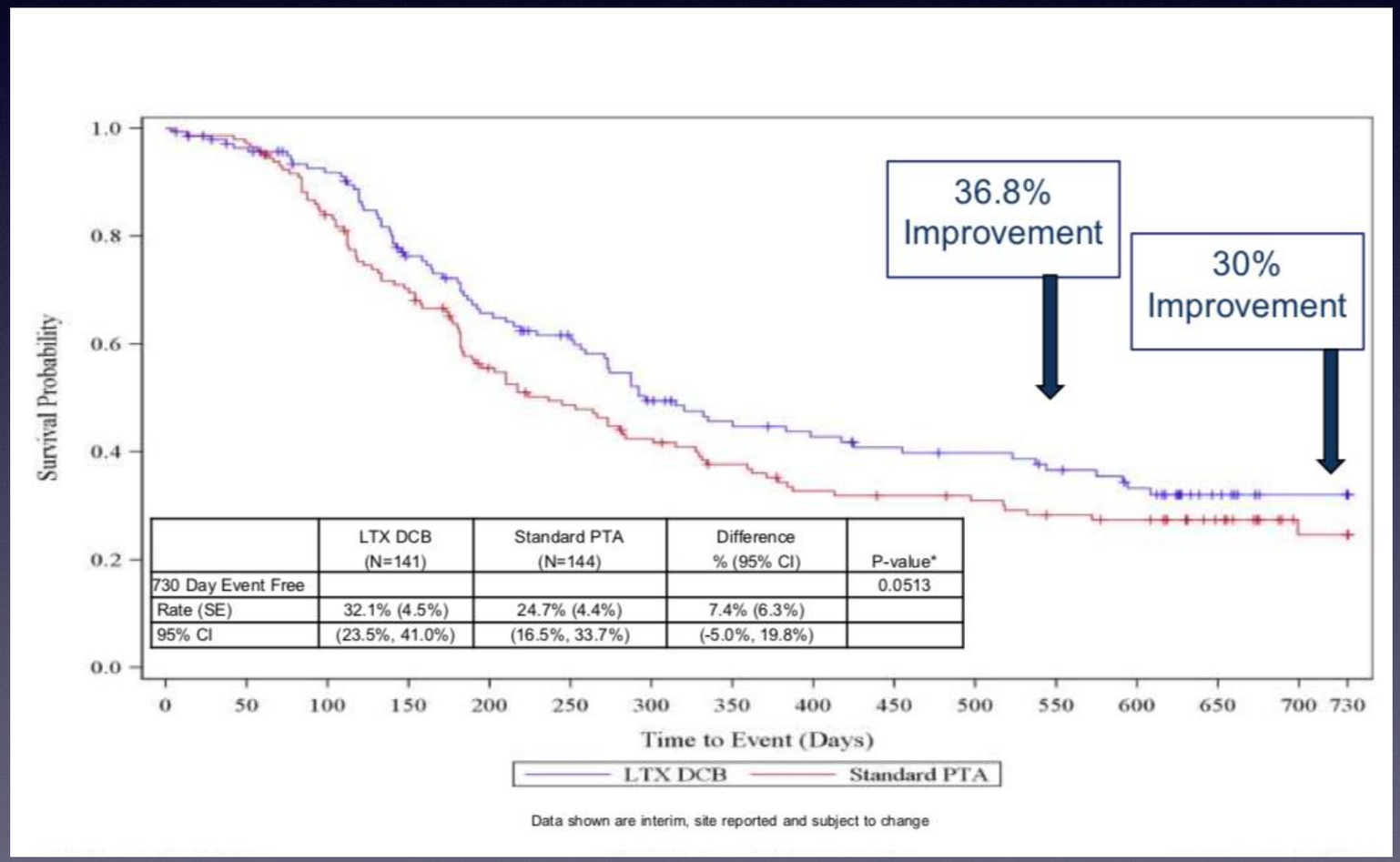
BARD



Features

- First and only drug coated balloon approved for use in dysfunctional/stenosed dialysis fistulae
- Shown to enable longer AV fistula function due to increased time to first reintervention compared to standard angioplasty
- 71.4% Primary Patency in the LUTONIX ® AV Clinical Study at 6 months
- 31.3% fewer reinterventions than PTA at 6 months in the LUTONIX ® AV Clinical Study
- Demonstrated a safety profile that is as safe as PTA

Lutonix AV Clinical Trial



	LTX DCB (N=141)	Standard PTA (N=144)	Difference % (95% CI)	P-value*
730 Day Event Free				0.0513
Rate (SE)	32.1% (4.5%)	24.7% (4.4%)	7.4% (6.3%)	
95% CI	(23.5%, 41.0%)	(16.5%, 33.7%)	(-5.0%, 19.8%)	

Data shown are interim, site reported and subject to change

Thank You

University of Portsmouth

Wessex Kidney Centre
Delivering Excellence in Kidney Care