Trans-radial access in complex intervention

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I still use femoral
Steps

• Consent/Assessment
• Preparation
• Getting in
• Navigating the arm/arch
• Stability
• Haemostasis
Consent

• CVA/TIA?

• Hand dominance/ischaemia?

• Consent for conversion
Assessment
Barbeau test

No damping

Minimal Damping

Loss of pulse with recovery within 2 mins

Loss of pulse with no recovery
Preparation
Sheath insertion

• 5F hydrophilic sheath
• NO skin incision
• Skin traction
• Cocktail – heamodilution to 20ml
  • Verapamil 2.5mg, heparin 2000 u, GTN 200mcg
Navigating the arm/arch
Applications
• SIRT – Selective internal Radiotherapy treatment
• TACE – Trans-arterial chemoembolisation
• Bland tumour embolisation
• Prostate Artery embolisation
• Uterine artery embolisation
Case 1

• SIRT – Selective internal Radiotherapy treatment
• Two procedures
• Work-up – Angiography of Coeliac axis and hepatic vessels
• Treatment – Left and right lobes of the liver
Case 2

• Uterine artery embolisation
• Indication – fibroid
• Can cause abdominal pain post procedure therefore a groin approach is not preferable
Case 3

• Bleeding renal angiomyolipoma (AML)
• Acute drop in Hb
• Hypotensive
Haemostasis
Summary

• Patient assessment/selection is important
• Individual step are straight forward
• Learning curve in starting the service
Thank You