

## QUICK REFERENCE FOR COIL EMBOLIZATION OF AVMs (FISTULA CLOSURE)

**PURPOSE:** Coil embolization is the therapeutic introduction of a coil via catheters under fluoroscopy into a blood vessel with the goal of reducing blood flow to an arteriovenous malformation. (<http://www.emedicine.com/radio/topic761.htm#section~Introduction>)

### REQUIRED EQUIPMENT:

- 1 left heart pack, 1 cath lab bundle, 1 sterile basin, 1 PTCA bag
- 2<sup>nd</sup> procedure table with sterile table cover
- 7 Fr sheath in femoral vein (or sheath of MD's choice)
- 7 Fr guiding catheter of MD's choice
- 6fr Sheath in femoral artery
- 7fr Wedge Swan Ganz PRN
- 6fr Pigtail catheter
- Laureate Stiff Angled .035-260cm wire
- Guide wire of MD's choice
- J-wire
- Micro Ferret catheter
- IDC Target Coils of MD's choice

### EXPECTED MEDICATIONS

- Conscious sedation: usually Fentanyl (25-50mcg), Versed (1-2mg) IV
- Local anaesthetic: Xylocaine 2% and Bupivaine 0.5%
- Heparin bolus as per MD following cannulation
- Ancef 1 Gm or Vancomycin 1Gm (if patient has allergy) IV

### PROCEDURE IN BRIEF

- Patient arrives in cath lab and monitoring of vital signs commences
- Patient is given conscious sedation as per MD's orders, IV antibiotics are started
- Patient draped and prepped cannulation of right femoral artery
- Local anaesthetic is given and right femoral artery is cannulated with 7Fr sheath which is sutured in place
- Heparin bolus is administered as per MD
- Guide catheter of MD's choice is prepped and advanced AO via femoral arterial sheath.
- Coronary angiograms are performed in multiple views to visualize fistula
- Angiogram are reviewed in order to develop plan
- Guide-wire of MD's choice is advanced to fistula within target vessel
- Micro Ferret Infusion catheter is given and prepped and advanced over the guide wire to the target area
- Guide wire is removed and IDC coil is selected and advanced to target area
- Angiograms are performed to verify positioning of the coil
- Coil is deployed.
- **THIS IS REPEATED UNTIL DESIRED EFFECT IS ACHIEVED**
- Angiograms are repeated

- MicroFerret catheter is removed and final angiograms are performed
- Procedure complete. Dressing applied to sheath (or MD may choose to use closure device)