

QUICK REFERENCE GUIDE for PDA Closure

Defn: To close a connection between the Pulmonary Artery and the Aorta or PDA that usually closes within first week of birth

<http://www.cincinnatichildrens.org/health/heart-encyclopedia/anomalies/pda.htm>

Equipment required

Sterile table #1

- Left heart pack, 1 Sterile cathlab bundle, PTCA bag, Sterile basin/Medrad
- Extra procedure table with sterile table cover, extra sterile green towels
- **6Fr for Femoral Artery and 8Fr sheath for Femoral Vein**
- 2 each 6Fr Perclose AT (hall cabinet)
- .035J-145cm wire, Cook Amplatz Extra stiff wire .035-260cm
- 7Fr Wedge Pressure Catheter (hall cabinet)
- 5Fr Marker Pigtail (hall Cabinet)
- 8Fr Gensini catheter (hall cabinet)
- Amplatzer Delivery System (choice of 8Fr, 9Fr, 10Fr or 12Fr) hall cabinet
- Amplatzer PDA Occluder
- Sterile Angio tubing for angios with Medrad Dye Injector machine, Medrad Syringe

Possible Medications

- Local Zylocaine 2% & Bupivacaine .5%
- Versed and Fentanyl Sedation as ordered
- Ancef 1 grm or Vancomycin(if allergy) as per MD
- Heparin Boluses (U) as ordered by MD
- 250cc bag Warm N/S for device to prepare

Procedure Flow in Brief (Based on Recent Flowsheet)

- Pt arrives in lab. Monitoring of Vital signs commenced.
- Sedation given as ordered
- Pt prepared usual sterile fashion, local anaesthetic,
- MD cannulates **Femoral Vein with 8fr and Femoral Artery with 6Fr sheath**
- **Perclose preset Femoral Vein**
- **Right heart pressures measured with possibly Wedge catheter/Gensini Catheter**
- **Oximetry may be performed**
- Marker Pigtail catheter advanced over J wire via RFA sheath to AO
- Pigtail catheter advanced across LV and pressure recorded.
- Catheter then Pulled back across AO Valve and AO Arch Angio performed
- AES exchange wire advanced via Gensini catheter and across Patent Ductus Arteriosis to ASC AO
- The wire is removed and hand flush with radiopaque contrast is performed to ascertain correct catheter position
- Amplatzer Delivery System prepared with Amplatzer Duct Occluder

- Device mounted onto delivery system and advanced across PDA
- 6Fr pigtail catheter prepared and advanced to DESC AO
- Device positioned across PDA, hand injection performed to check residual leak
- AO angio performed with pigtail catheter
- Device deployed in PDA site
- Perclose sutures secured in RFA and RFV, Bandaid applied, Procedure complete.