

# Basics of Cardiac Catheterization



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# Why do we cath?



- Hemodynamics
- Angiograms
- Interventions

# Hemodynamics



- Pulmonary Vascular Resistance
- Gradients
  - A) valvar
  - B) across stenosis
  - C) from one structure to another

# Angiography



- Heart Function
- Pictures for Surgeons
- Pictures for Device Determination
  - A) size
  - B) shape

# Interventions



- Arterioplasty
  - A) balloons
  - B) stents
- Valvuloplasty
  - A) balloons
  - B) stents
- Coarctation of the Aorta
  - A) balloons
  - B) stents

# Post-Cath Recovery



- Monitoring Recovery from Sedation
- Monitoring Arterial Pulses post sheath removal
- Echocardiography and/or X Ray for Proper Device Placement

# How do we cath?

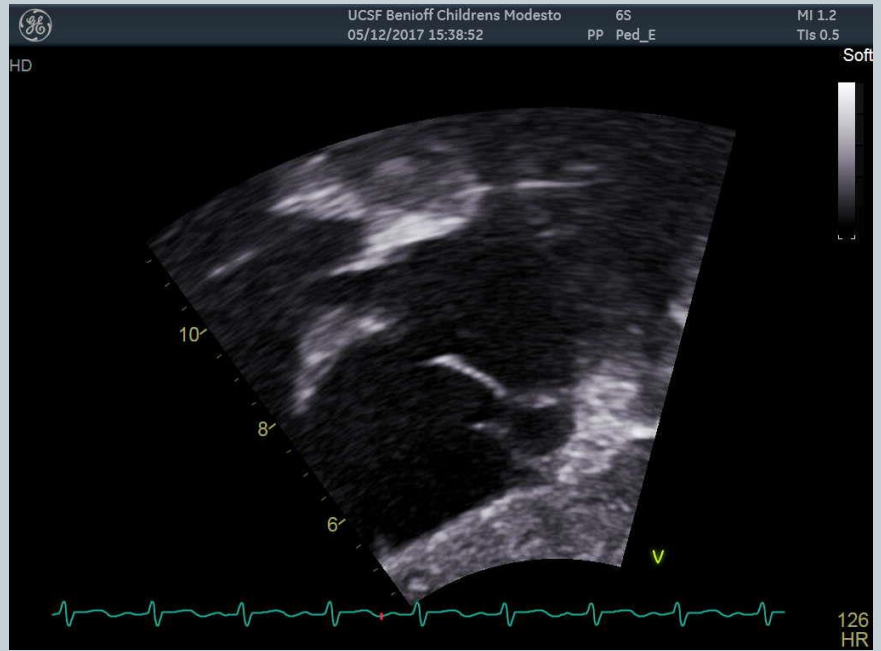


- Patient prepared initially for procedure in PRE-OP  
Height, weight, vital signs, 12 Lead EKG, IV access, laboratory specimens and consent for procedure and blood transfusion are all obtained.
- Venous and/or arterial access are obtained
- Catheters
- Equipment
- In the Catheterization Lab

# Interventions (continued)



- Embolization
  - A) ASD
  - B) VSD
  - C) PDA
  - D) Collateral Vessels







# Conclusion



- Thank you