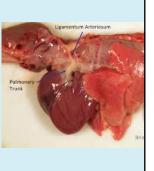
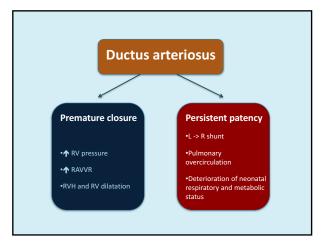
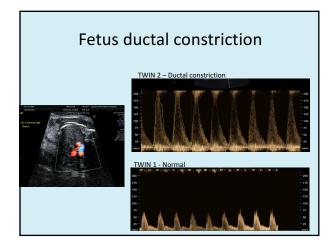


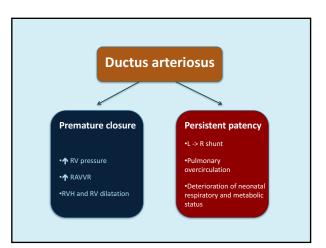
Normal closure of the PDA

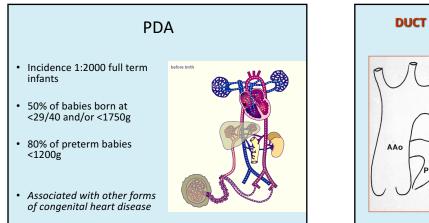
- Initiated by increase in oxygen and changes in pulmonary and systemic BP
- Intimal ischemia then necrosis duct evolves into ligamentum arteriosum
- Full term closes 1-5 days after birth



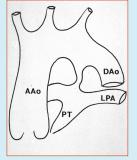








DUCT DEPENDENT PULM. BLOOD FLOW



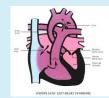
Virtually any malformation with: Pulmonary Atresia/ Severe PS

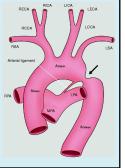
- Tetralogy of Fallot
 - **Critical Pulmonary Stenosis**
 - Tricuspid Atresia
- Double Inlet Ventricle
- Transposition with VSD
- Ebstein's Malformation
- Miscellaneous



DUCT DEPENDENT SYSTEMIC BLOOD FLOW

- Coarctation of the aorta
- Hypoplastic left heart
- Critical aortic stenosis





Clinical features

Symptoms

- Silent
- Asymptomatic
- FTT
- Recurrent chest infections
- Neonatal/infantile CCF

Examination

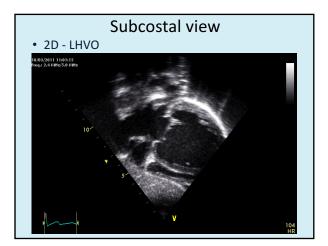
- Bounding pulses
- Increased LV impulse
- Continuous machinery
 murmur
- Hepatomegaly
- Tachypnoea

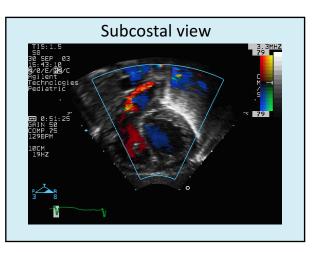
Echocardiography

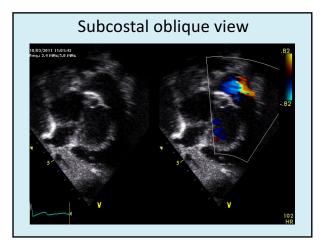
- Exclude structural heart disease
- Visualisation of duct
 - Presence
 - Morphology
 - Doppler examination
- Haemodynamic consequences

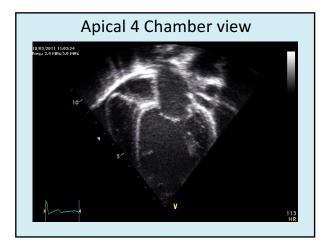
 Left heart volume overload

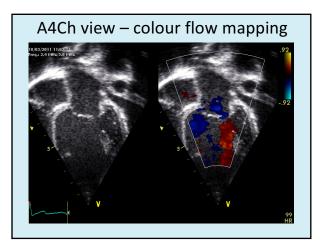
Subcostal view • Abdominal aorta

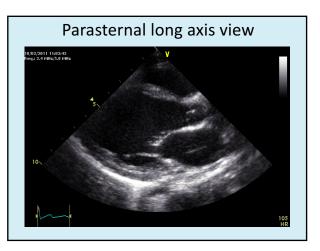


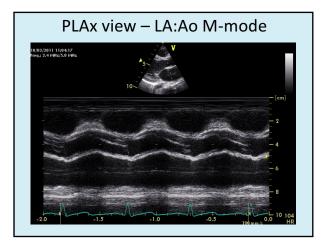


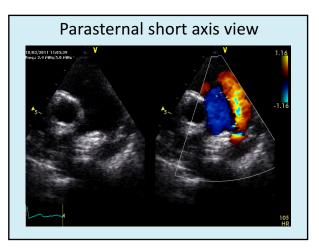


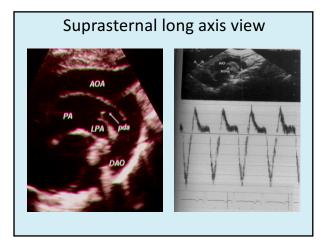


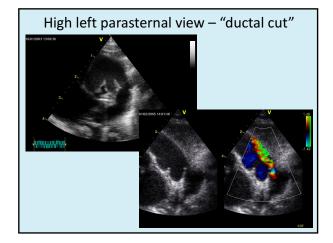


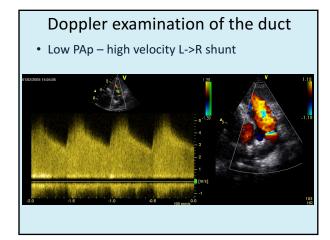


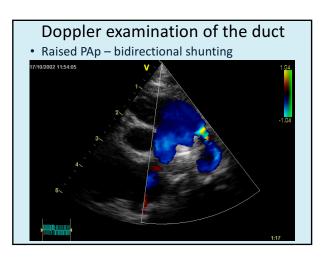


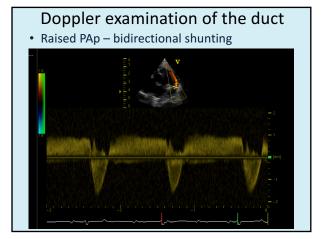


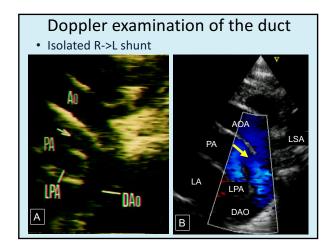


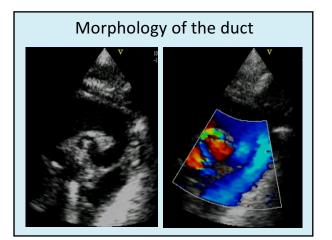












Treatment PDA Preterm population

- Medical
- Surgical closure
- (Transcatheter closure)

Older child

• Transcatheter closure



