

Classification of congenital heart diseases

Left-to-right shunt

- atrial septal defect
- ventricular septal defect
- persistent ductus arteriosus
- atrioventricular septal deffect
- partial transposition of pulmonary veins

Cyanotic (right-to-left shunt)

- great vessel transposition
- tetralogy of Fallot
- tricuspidal atresia
- pulmonary atresia
- Ebstein-anomaly

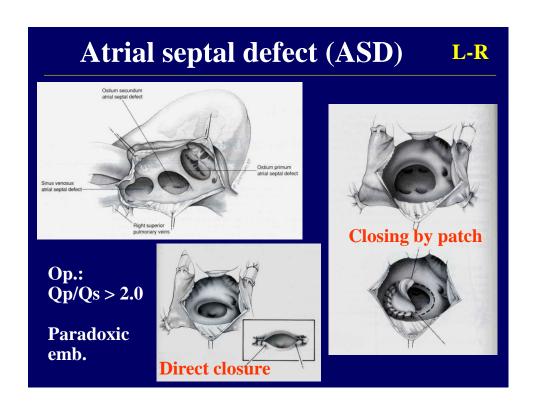
Obstructive

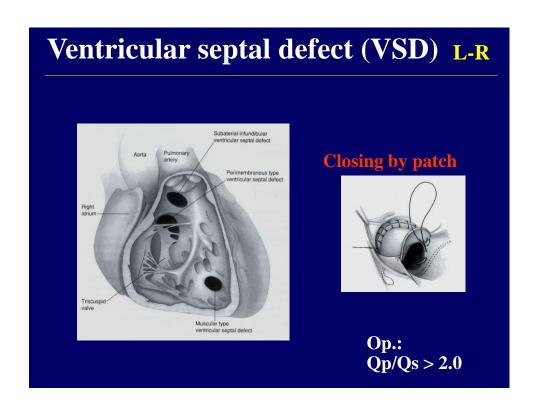
- aorta stenosis
- pulmonary stenosis
- coarctation of aorta

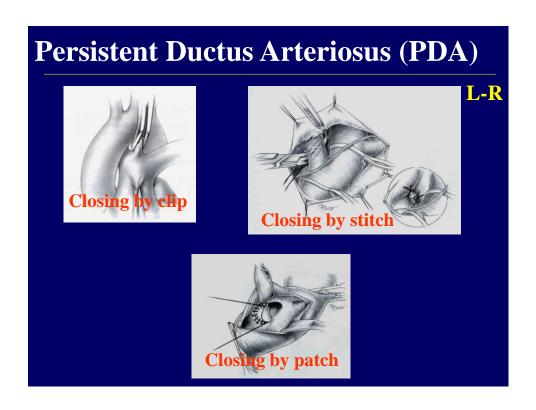
- total transposition of pulmonary veins
- persistent truncus arteriosus
- univentricular heart

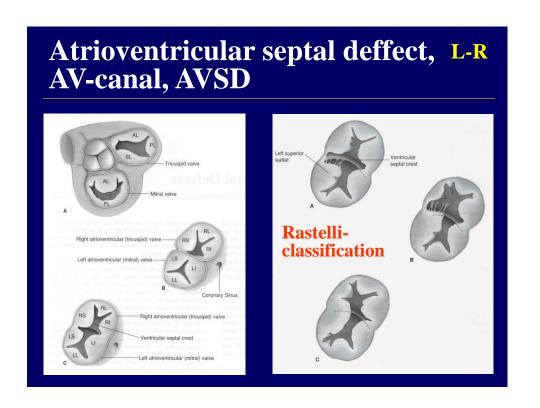
Operative management

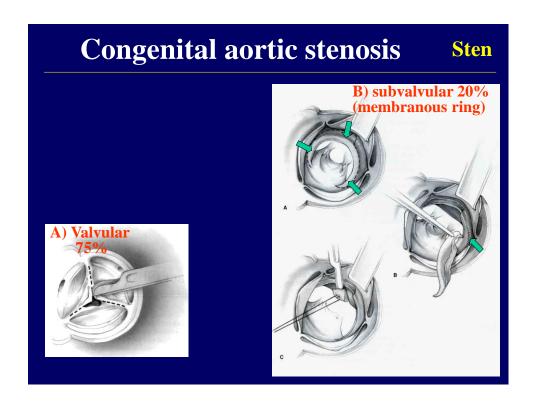
- Why operate? symptoms of circulatory failure, frequent airway infections, retardation in growth, **Eisenmenger** syndrome
- Earlier: several-stage operations starting with palliation
- Nowadays primary total anatomical reconstruction even in newborns
- Reduced mortality recently
- Less demanding for the society and for the family
- Diagnostics: mainly echocardiography, less angiocardiography (X-ray, contrast agent!), cardiac MRI

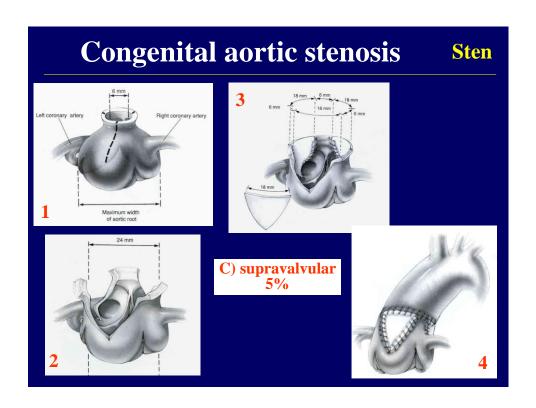




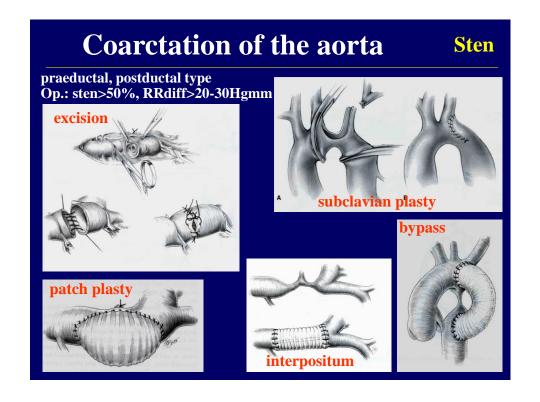




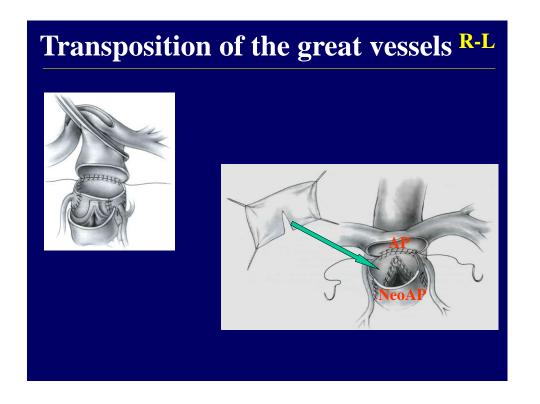


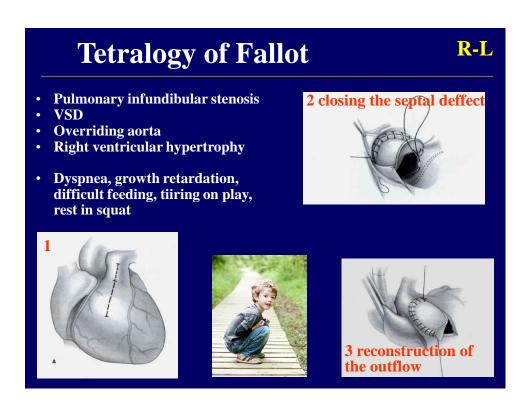


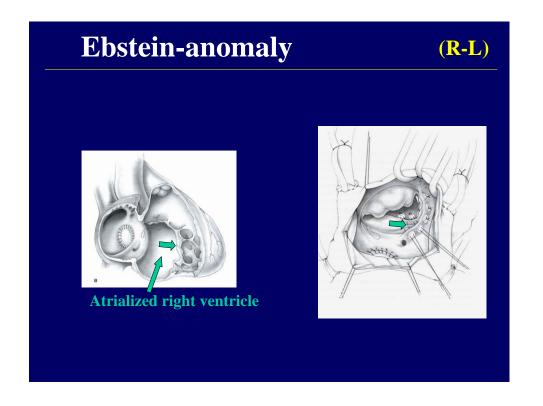
Pulmonary stenosis C) Double patch plasy A) valvulectomy

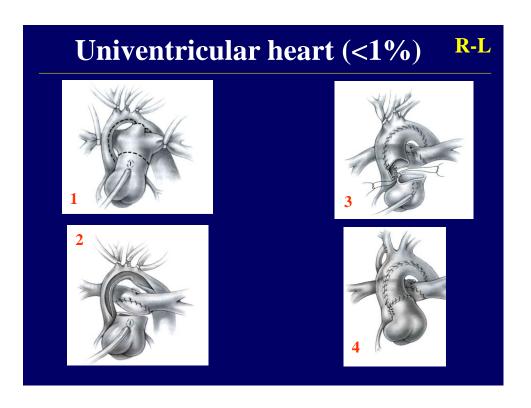


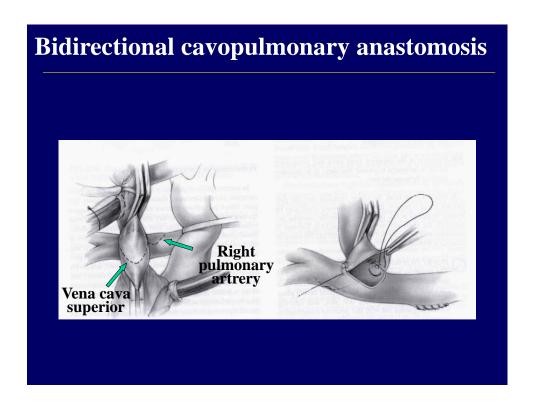
Transposition of the great vessels R-L

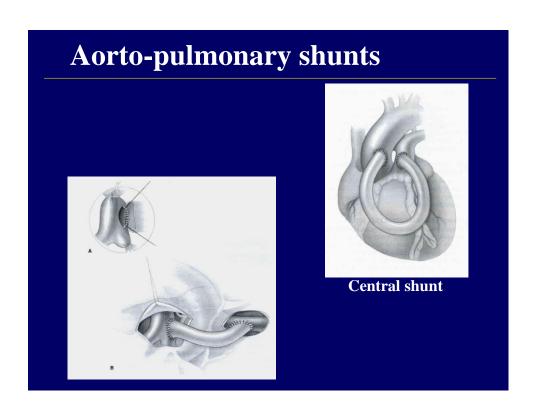


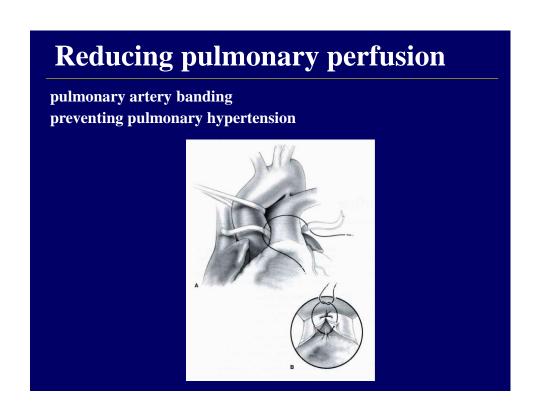












Postoperative follow-up

- Regular follow-up is necessary in most cases
- (Elective multistage operations to the strength of the child)
- Redo operations (adhesions!): graft replacement for a bigger one, calcified homograft, late complications
- Endocarditis prophylaxis (in case of residue)
- Physical education/load according to capacity
- Psychological/mental guidance

GUCH (Grown-up congenital heart) disease

- 80-85% of patients born with congenital heart disease survive to adulthood
- Relatively small population, but complex and variable pathology
- Special follow-up: cardiology, intensive care, anesthesia, pregnancy
- 40% simple or cured disease no specialist, 35-40% access to expert consultation, 20-25% life long expert supervision