

Cardiac procedures

Phase 1 – ST1-ST3

- 1.Saphenous vein harvest
- 2.Radial artery harvest
- 3.Median sternotomy, pericardiotomy & thymic dissection
- 4.Internal mammary artery harvesting
- 5.Preparation for cardiopulmonary bypass (aortic cannulation, venous cannulation, bicaval venous cannulation, femoral arterial and venous cannulation)
6. Antegrade cardioplegia cannula insertion, retrograde cardioplegia cannula insertion, placement of apical/RSPV vents)
- 7.Weaning from CPB and decannulation
- 8.Placing atrial and ventricular pacing wires
- 9.Placing mediastinal and pleural chest drains
- 10.Systematic haemostasis
- 11.Sternal closure
- 12.Distal coronary anastomosis (including positioning of the heart & identifying the vessels)
- 13.Proximal coronary anastomosis (including assessing the length of the coronary bypass grafts)
- 14.Y or T-graft coronary anastomosis
- 15.OPCAB procedure

Phase 2 - ST4-ST5

- 1.Aortotomy (transverse or J-shaped) & closure of the aortotomy
- 2.Greater curve aortoplasty and closure
- 3.Excision of the aortic valve and debridement of the annulus prior to AVR
- 4.Sizing the aortic valve –intra-annular & supra-annular techniques
- 5.Implanting a prosthetic aortic valve (interrupted or semi-continuous)

- 6.Left atriotomy (standard, trans-septal or Dubost) & closure of the left atriotomy
- 7.Assessing the mitral valve –nerve hooks/saline test
- 8.Excision of the mitral valve prior to MV replacement
- 9.Implanting a prosthetic mitral valve
- 10.Mitral valve repair (triangular or quadrangular resection)
- 11.Mitral valve repair (Gortex neo-chordae implantation)
- 12.Mitral valve repair (sliding annuloplasty)
- 13.Right atriotomy& closure of the right atriotomy
- 14.Tricuspid valve annuloplasty ring implantation
- 15.Tricuspid valve replacement

Phase 3 ST6-ST7

- 1.Atrial septal defect repair
- 2.Atrial myxoma resection
- 3.Atrial fibrillation surgery (pulmonary vein isolation, left atrial lesion set, right atrial lesion set, left atrial appendage excision)
- 4.HemisternotomyAVR
- 5.Trans-apical TAVI
- 6.Redo sternotomy
- 8.Aortic arch cannulation
- 9.Ascending aortic replacement
- 10.Bentallaortic root replacement
- 11.Repair of an acute type A aortic dissection
- 12.Repair of a post-infarction ventricular septal defect
- 13.Repair of a post-infarction LV free wall perforation
- 14.Excision of extensive mitral annular calcification
- 15.Pulmonary embolectomy
- 16.Pericardiectomy
- 17.LV aneurysm plication
- 18.Surgical ventricular restoration procedure
- 19.Explanting the heart for transplantation
- 20.Implanting the heart for transplantation

- 21.Valve sparing aortic root replacement (David Yacoub procedure)
- 22.Cabrol procedure
- 23.Surgical repair of an aortic root abscess with aortic homograft
- 24.Aortic arch replacement
- 25.Descending aortic replacement
- 26.Repair of an aortic transection
- 27.Repair of coarctation of the aorta
- 28.Pulmonary valve replacement
- 29.Minimally invasive mitral valve repair
- 30.Minimally invasive aortic valve replacement
- 31.Placement of a central intra-aortic balloon pump