VALVE REPAIRS

Below are some examples of valve repair techniques provided by Dr. James Gammie, The University of Maryland.

Aortic Valve Procedures

Aortic Valve Repair (leaflet plication + leaflet comm resuspension suture)
Aortic Valve Procedures

Root reconstruction with valved conduit
AKA “root replacement”
Aortic Valve Procedures

Resuspension of aortic valve with replacement of ascending aorta
Aortic Valve Procedures

Apicoaortic Conduit (Aortic Valve Bypass)
Aortic Valve Procedures

Valve-sparing root reimplantation (David)
Aortic Valve Procedures

Valve-sparing root remodeling (Yacoub)
Aortic Valve Procedures

Schematic drawing of the different valve preserving approaches


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Aortic Valve Procedures

Transcatheter Valve Implantation (transapical)
Aortic Valve Procedures

1.) Crossing native valve
2.) Deploy percutaneous valve
3.) Expand percutaneous valve
4.) Final Release

Transcatheter Valve Implantation (transfemoral)
Mitral Valve Repair

Annuloplasty Rings:
Mitral Valve Procedures

Triangular Resection
Mitral Valve Repair

Quadrangular Resection
Techniques

Sliding Plasty
Mitral Valve Procedures:
Annular Decalcification

(a) Leaflet and atrial edge mobilized after decalcification process
Gore-Tex Chordal Replacement:
Mitral Valve Procedures

Chordal Transfer
Mitral Valve Procedures

Leaflet Patch
Mitral Valve Procedures

Edge-to-Edge Repair
Mitral Valve Procedures

Mitral Commissurotomy
Mitral Valve Procedures

Mitral Chords Preserved:
Tricuspid Valve Procedures

Annuloplasty