

# How I Do It: Ross Procedure

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# Disclosures

• Edwards Lifesciences - consulting



## **Setup and Pulmonary Valve Inspection**

Cannulate high Clamp above RPA takeoff Aortotomy 1cm above STJ Open PA proximal to RPA takeoff Inspect pulmonary valve

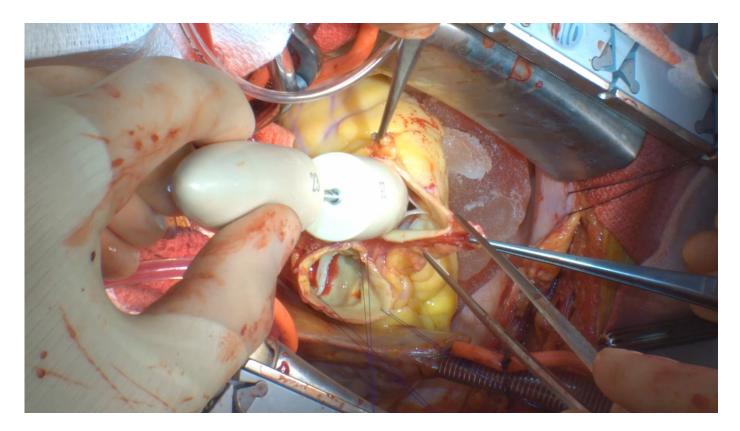
Size pulmonary annulus





# **Setup and Pulmonary Valve Inspection**

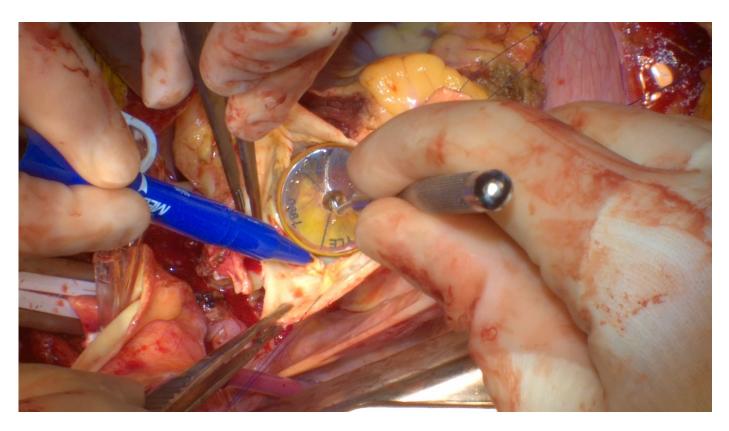
Harvest coronary buttons Dissect along annulus Dissect LM off posterior PA Go as deep as possible! Right angle under nonfacing cusp





# **Autograft Implantation with Running Technique**

Mark "neo" commissures 120 degrees apart Retraction sutures through commissures and autograft Intra-annular implantation Planar implantation – don't go up the commissures





## **Annuloplasty and Coronary Buttons**

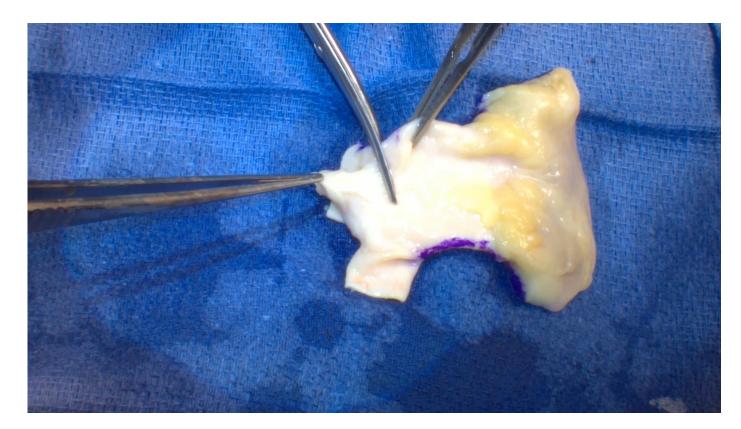
Goretex CV-0 suture Travel at the nadirs of the sinuses Tie over hegar dilator Small arteriotomy for coronary buttons Implant with "double bites" for improved hemostasis





#### **Annuloplasty and Coronary Buttons**

Oversized, decellularized homograft Typically 28-30mm Anchor distal anastomosis laterally to avoid stenosis Proximal anastomosis avoid large bites laterally near LAD and first septal





#### **Annuloplasty and Coronary Buttons**

Do NOT leave any PA distal to the STJ Routinely stabilize STJ with interposition graft Incorporate remnant aorta in distal anastomosis to create an "inclusion jacket" around autograft

