

# STS/EACTS Latin America Cardiovascular Surgery Conference

November 15-17, 2018

Hilton Cartagena | Cartagena, Colombia



The Society  
of Thoracic  
Surgeons



EACTS  
European Association for Cardio-Thoracic Surgery

## Aortic valvuloplasty: Ozaki Procedure



# How do I perform the Ozaki procedure in children

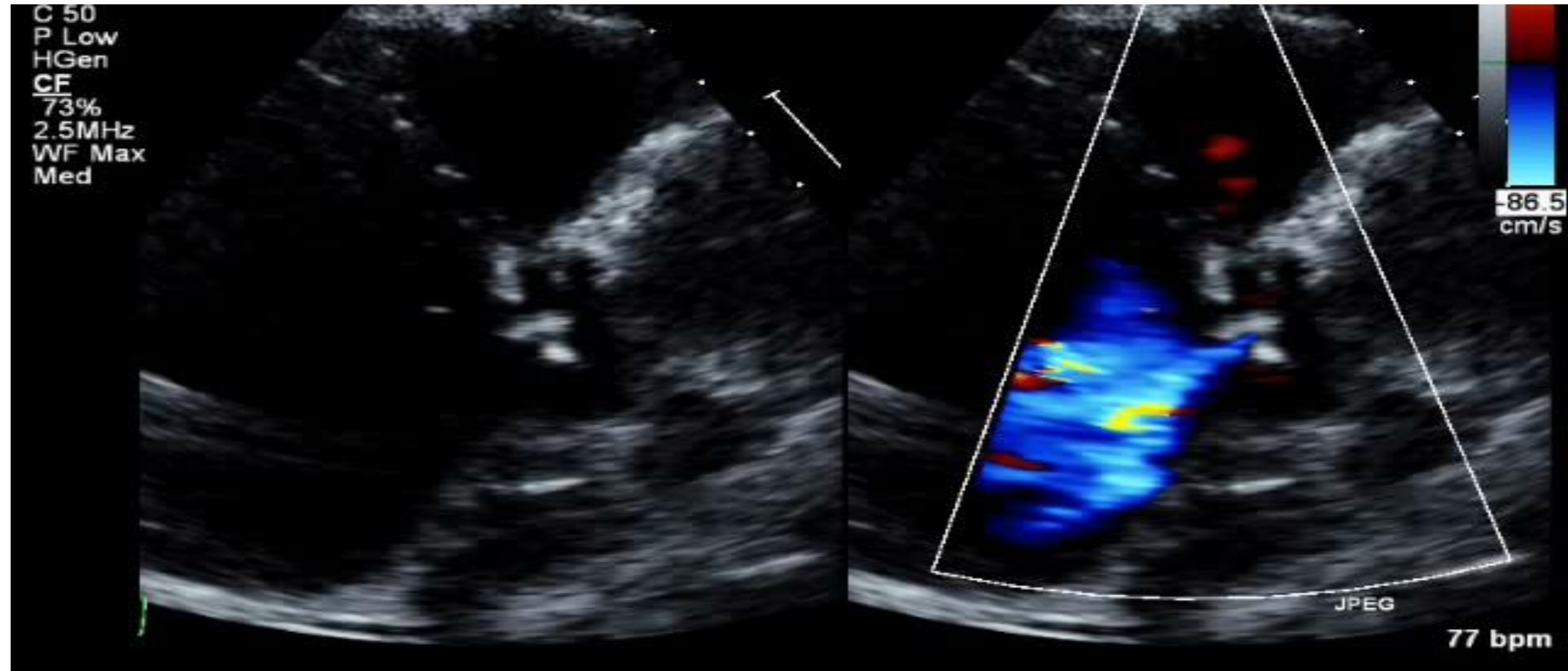
Pedro J. del Nido, MD  
Boston Children's Hospital  
Harvard Medical School



No Disclosures

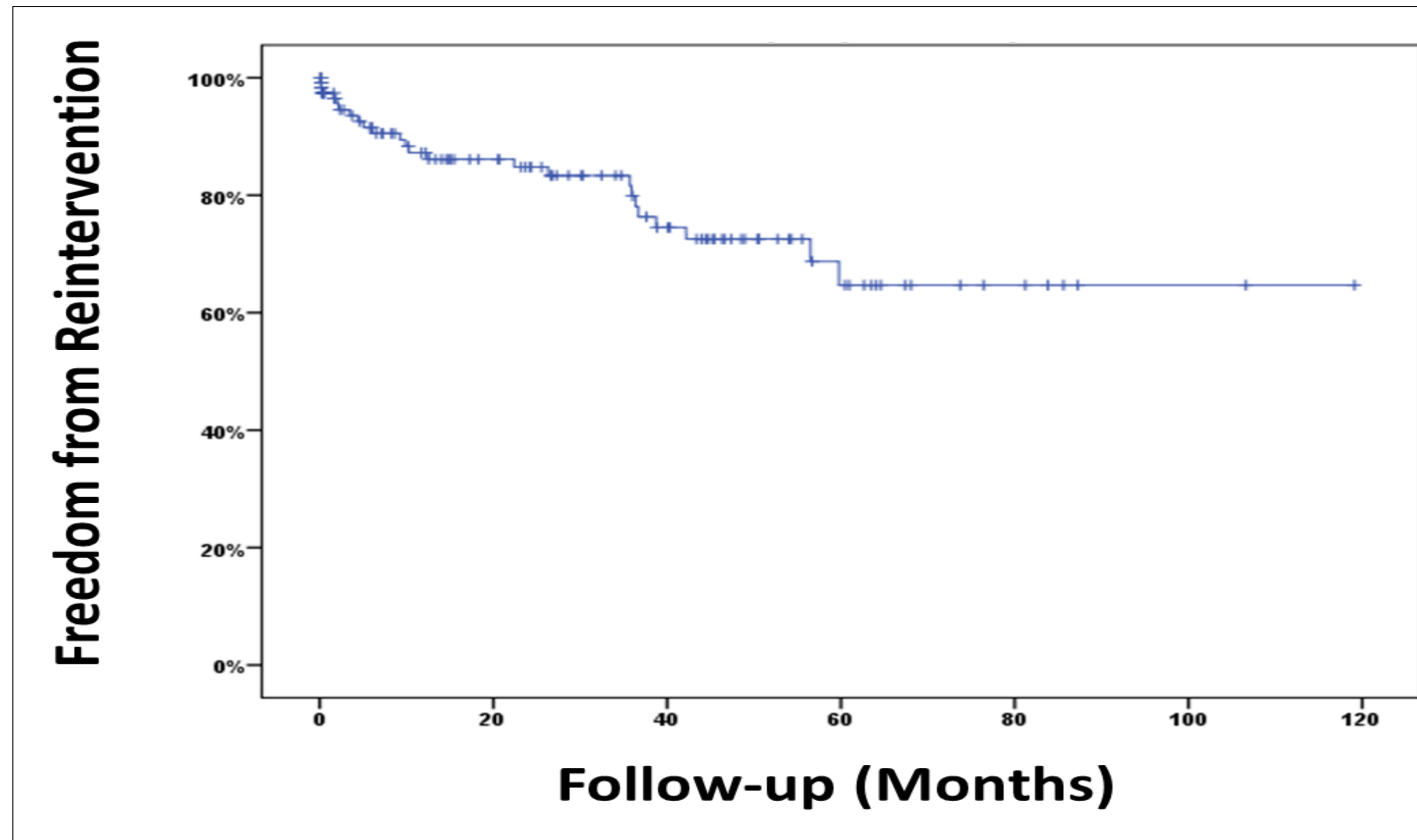


# Case: 16 y/o AS/AR



# Results of Ao valve repair in teens (BCH)

**2005- 2015**  
**median age 15yrs. (11.5-22yrs.) n=121;**



# Aortic Valve Reconstruction: The Ozaki Technique

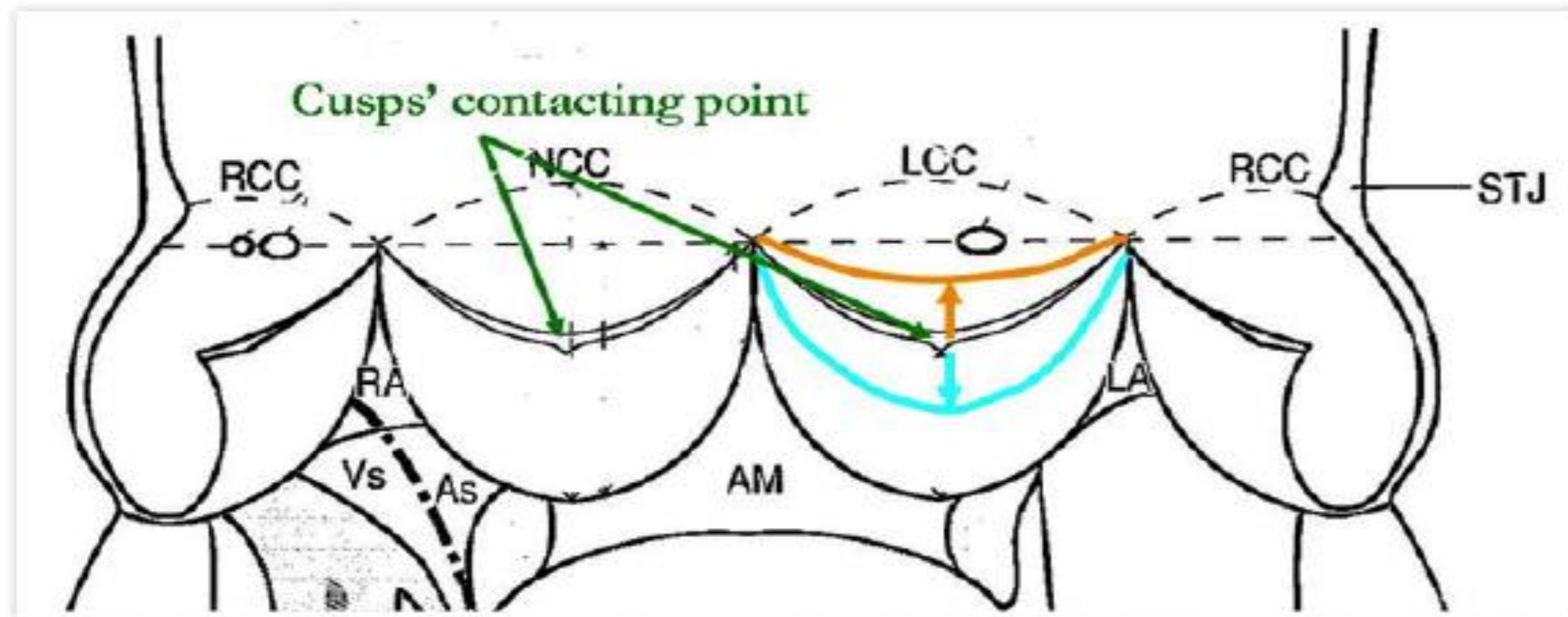


Fig. 2

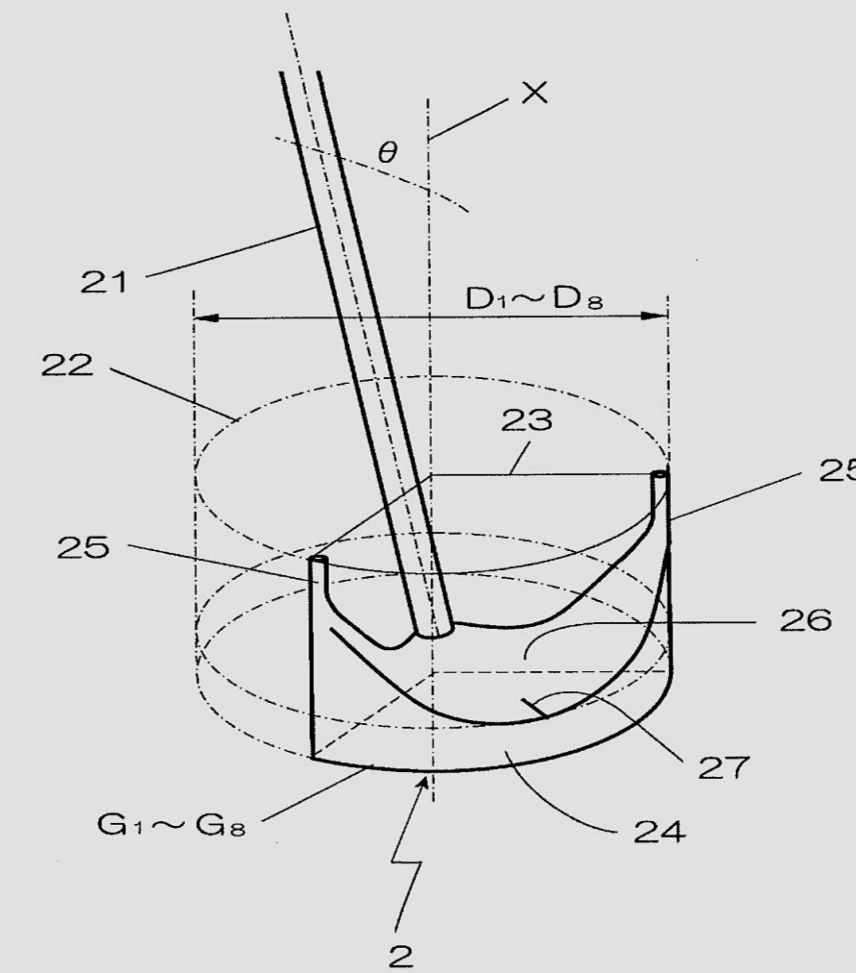
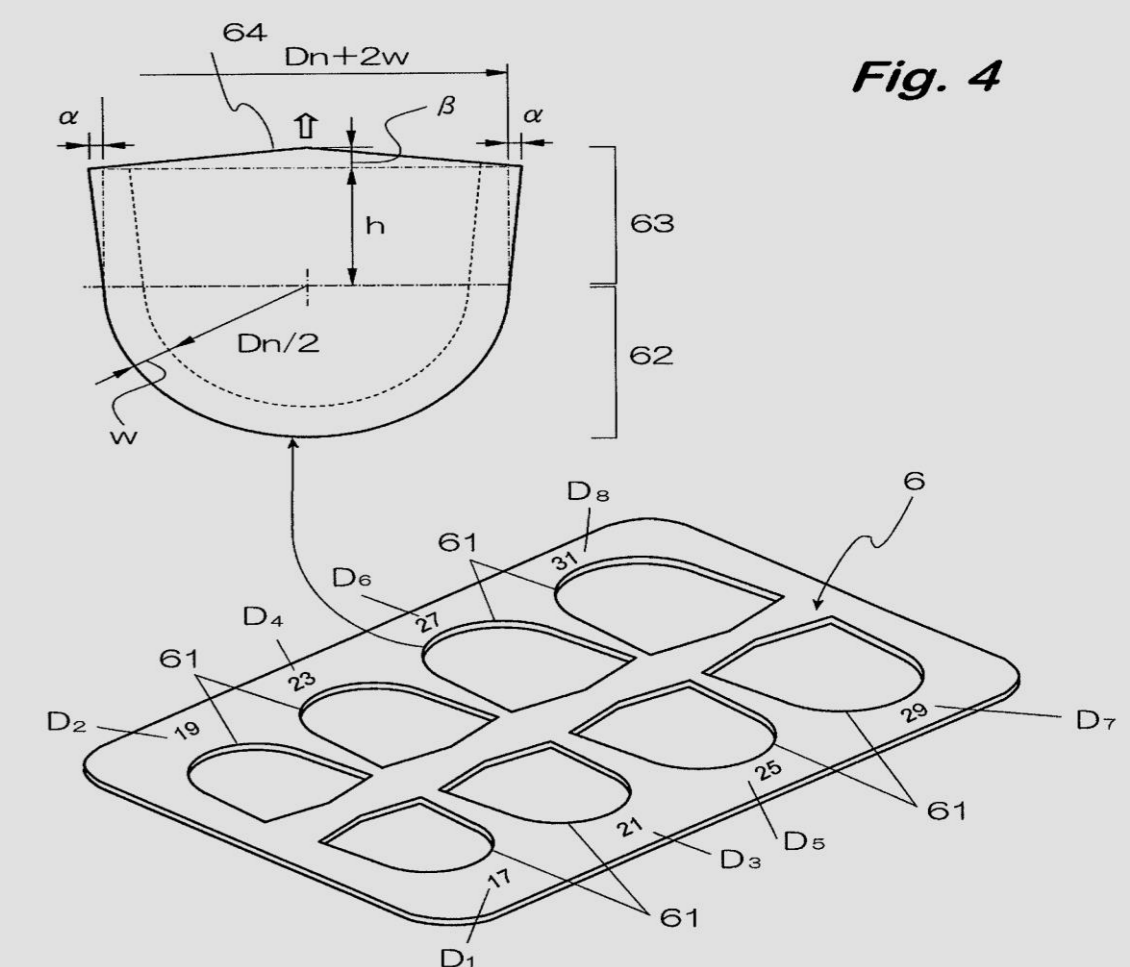
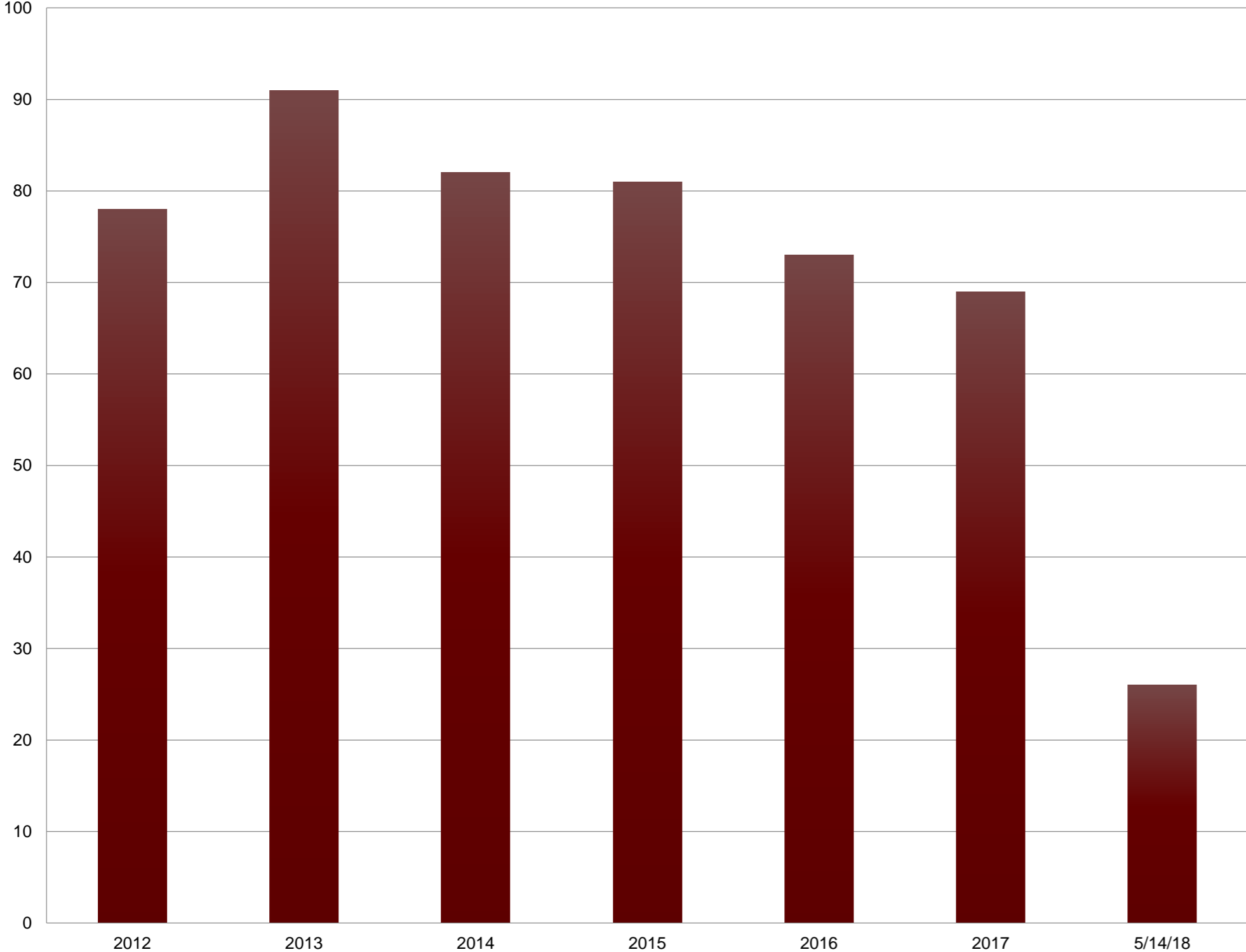


Fig. 4

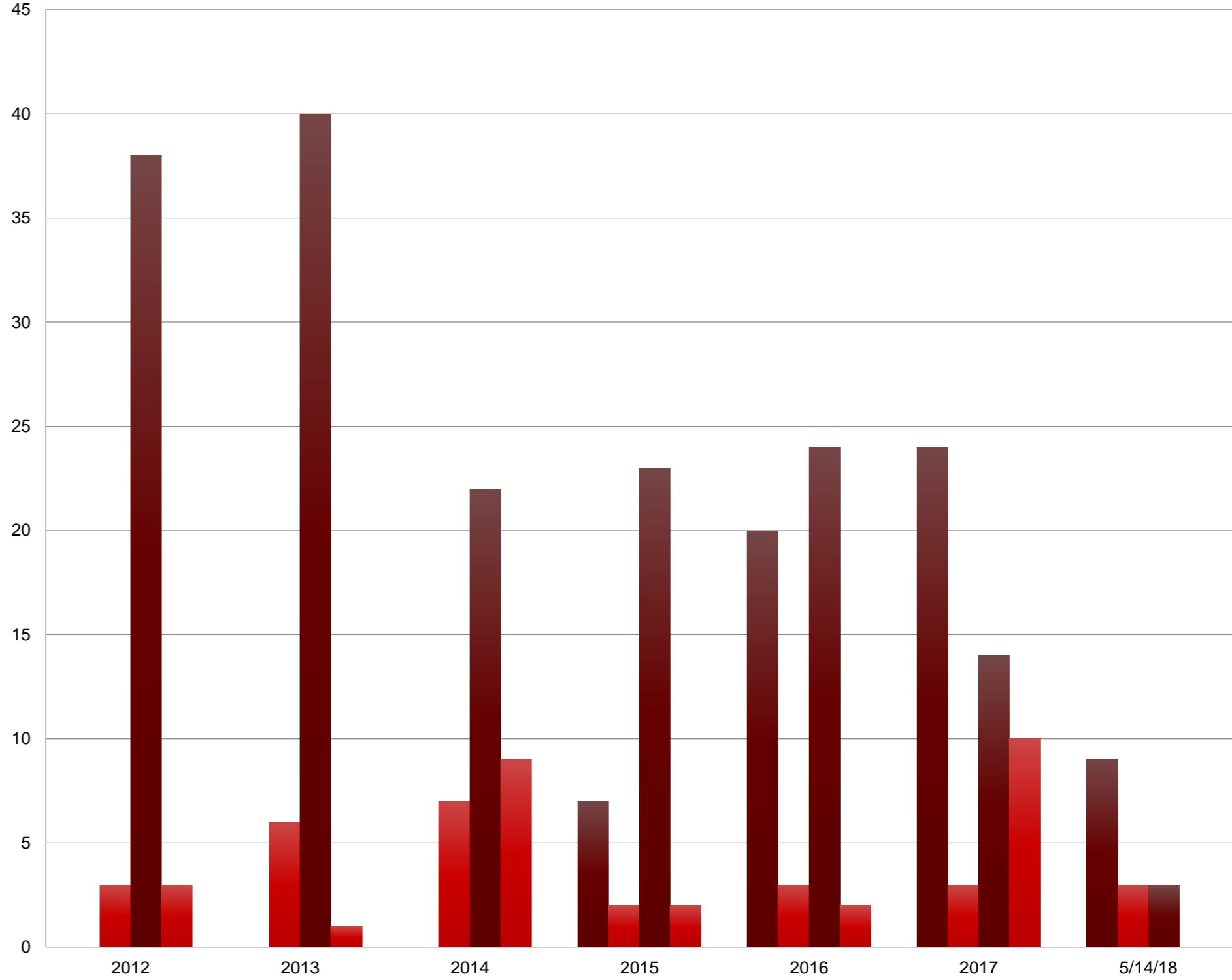


# Boston Children's Experience

Total Aortic Valve procedures

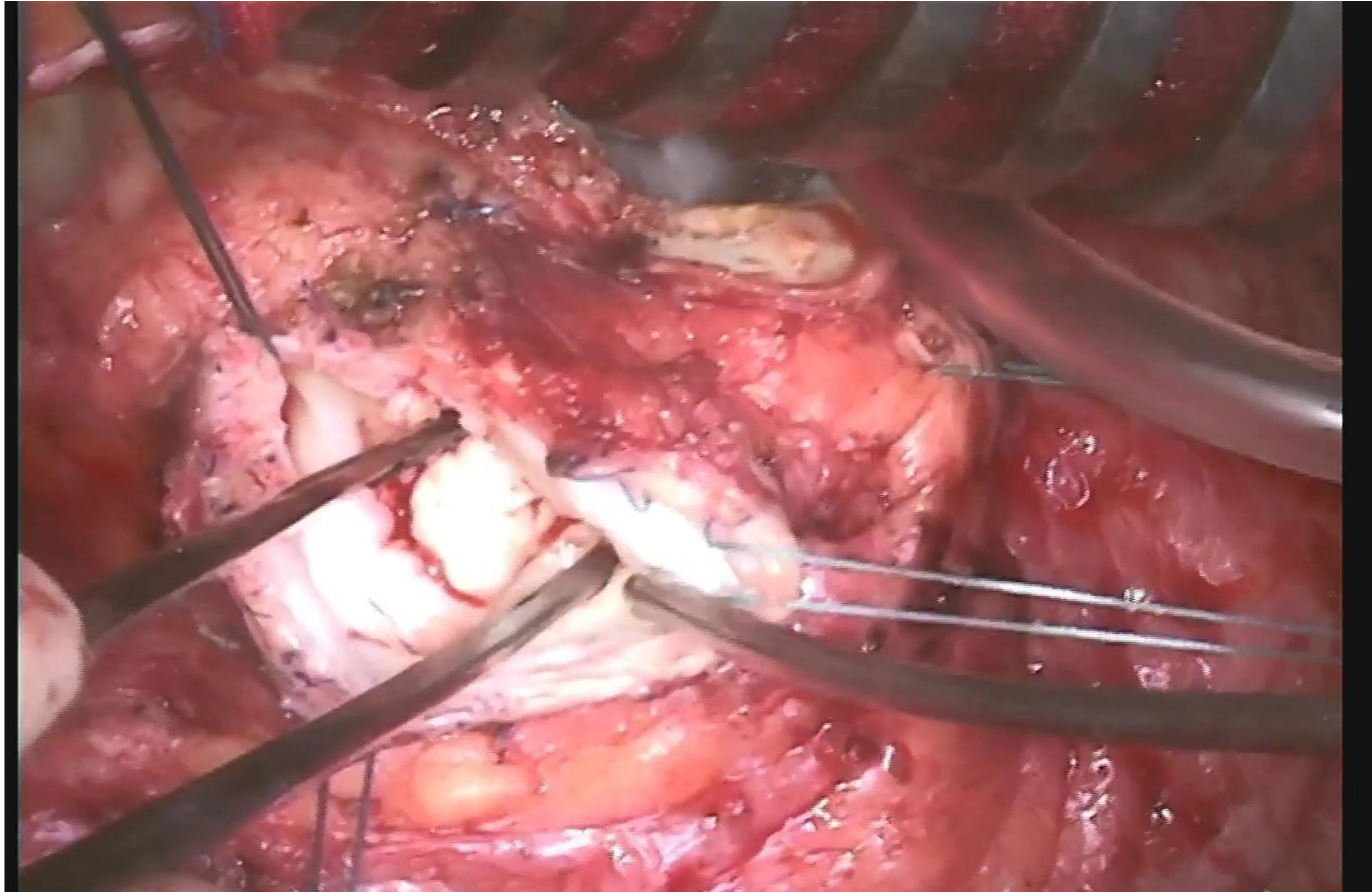


Ao Valve Reconstruction

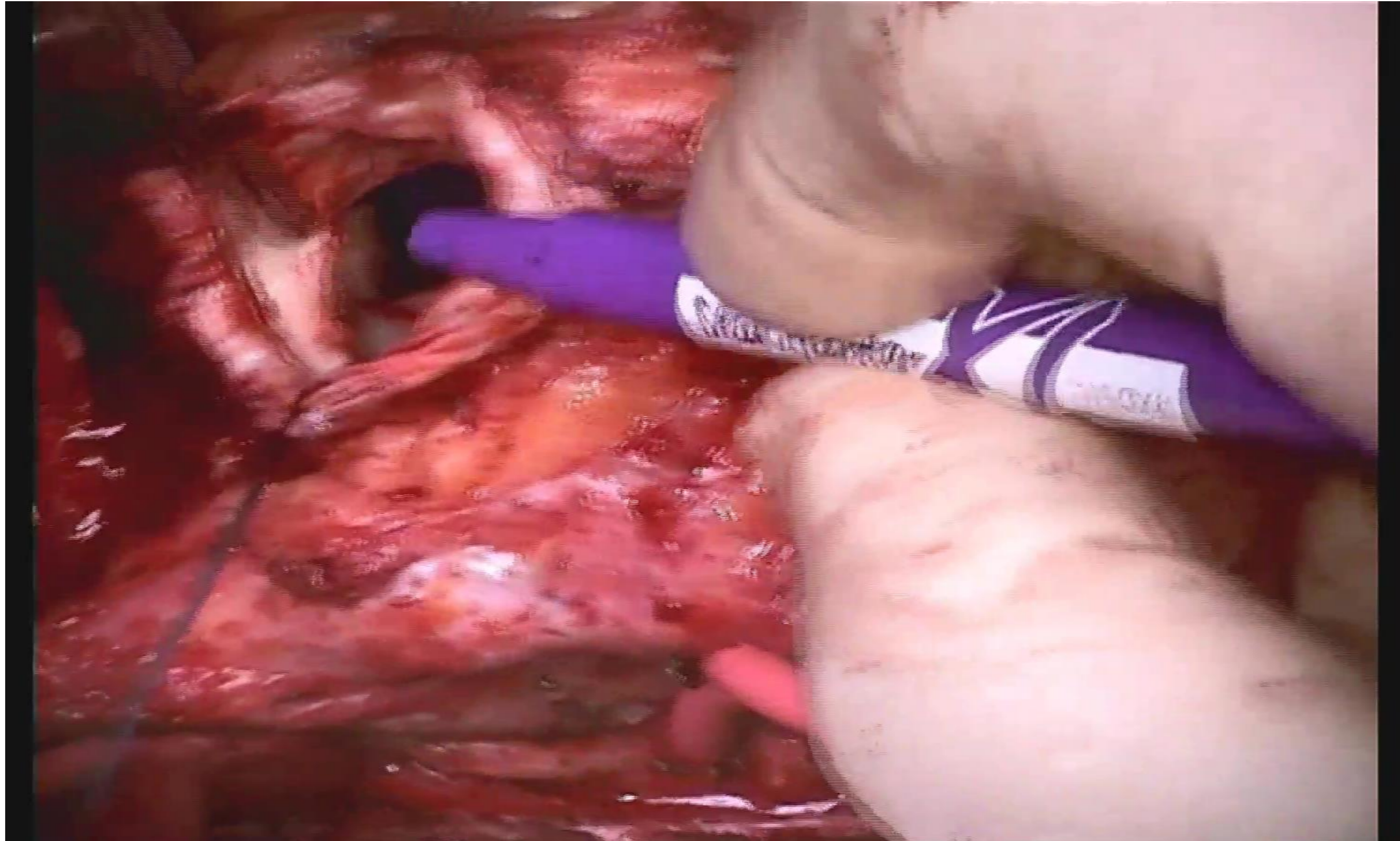


- Ozaki procedures
- NeoAo valve procedures
- Leaflet procedures (non-replacement)
- Valvotomy/Commissuroplasty

# Inspection and Resection

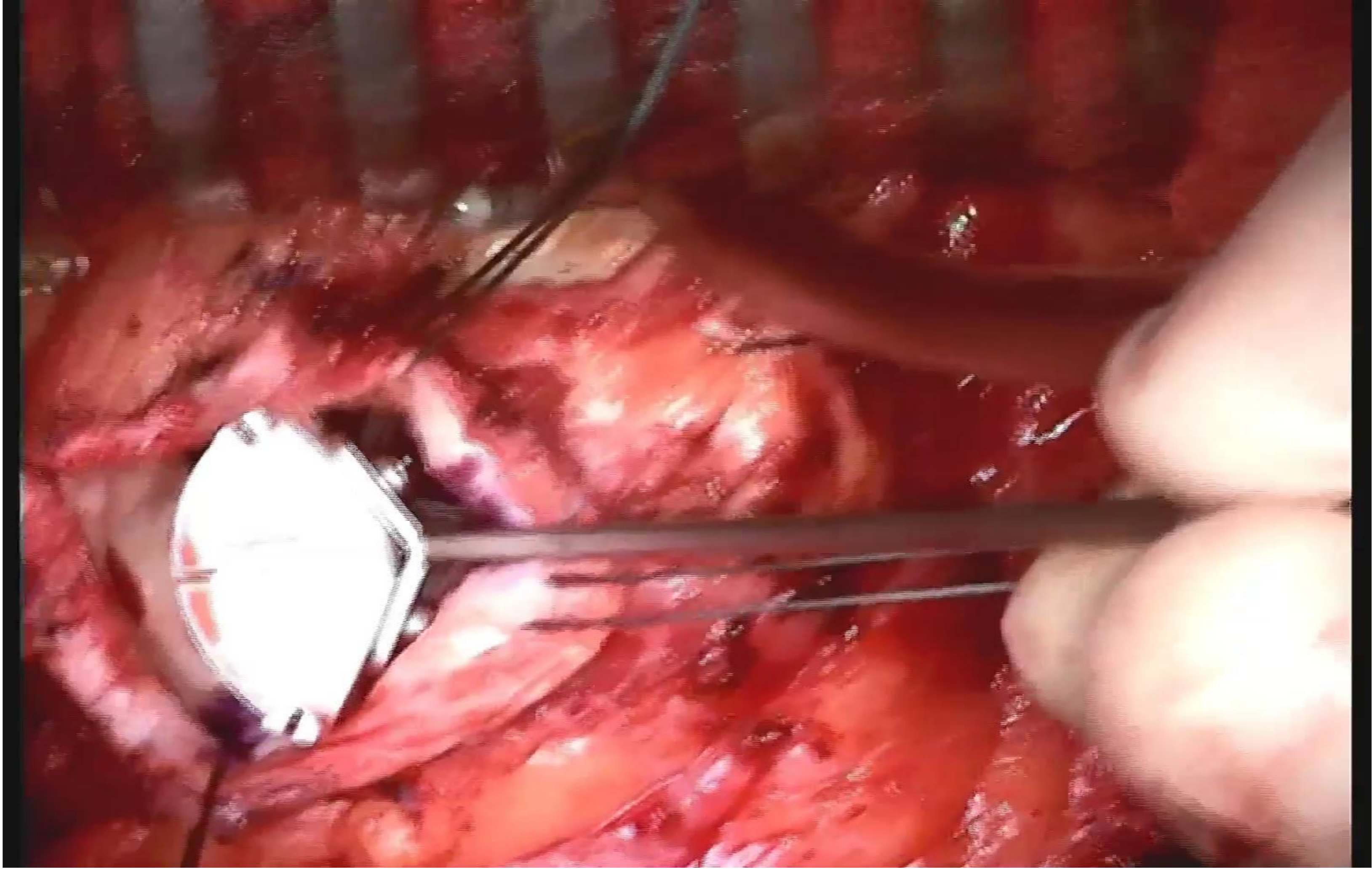
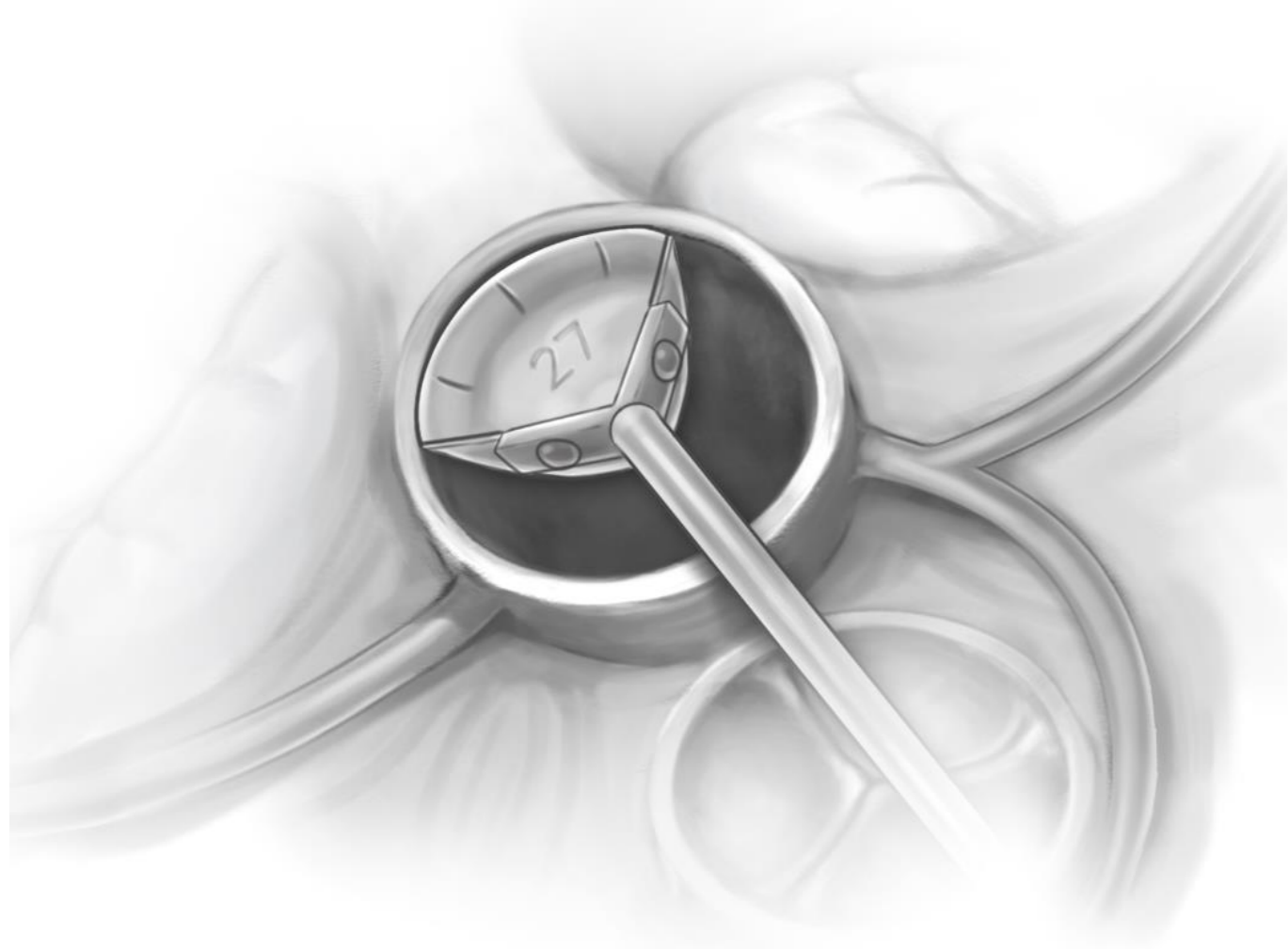
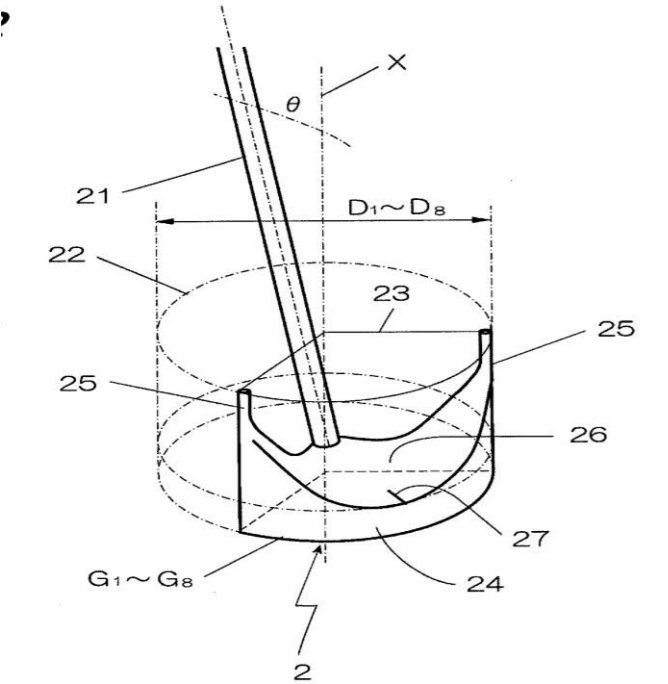


# Marking Commissures

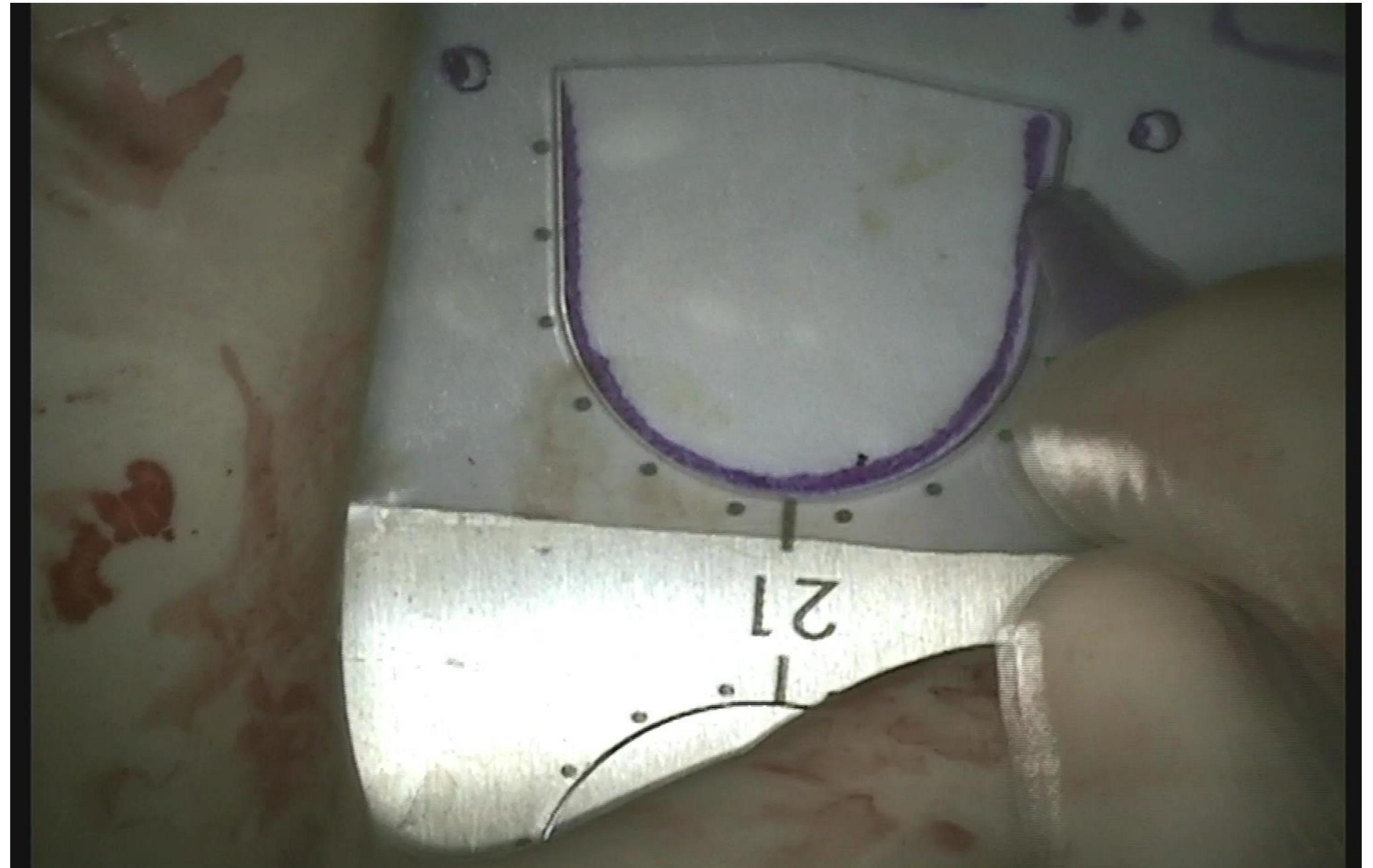
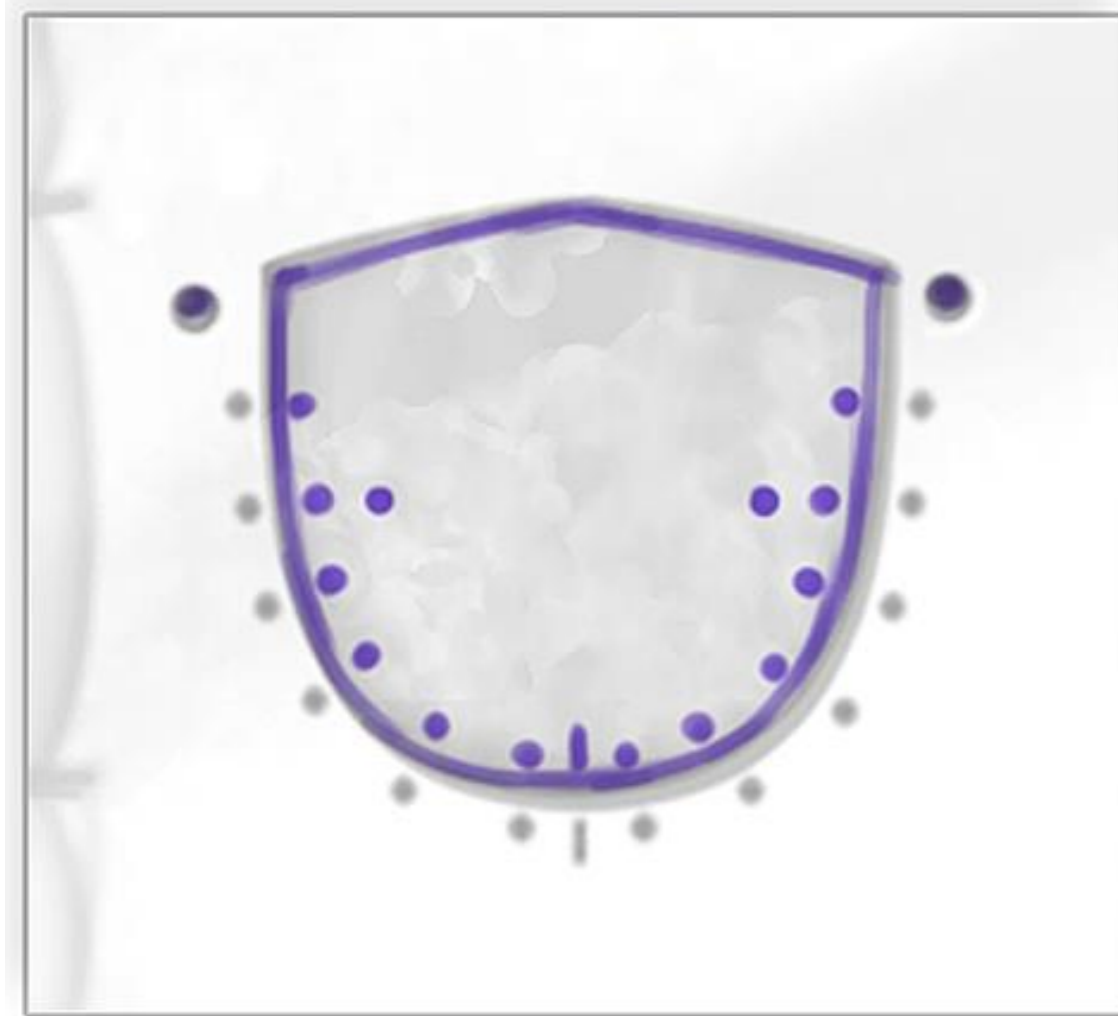
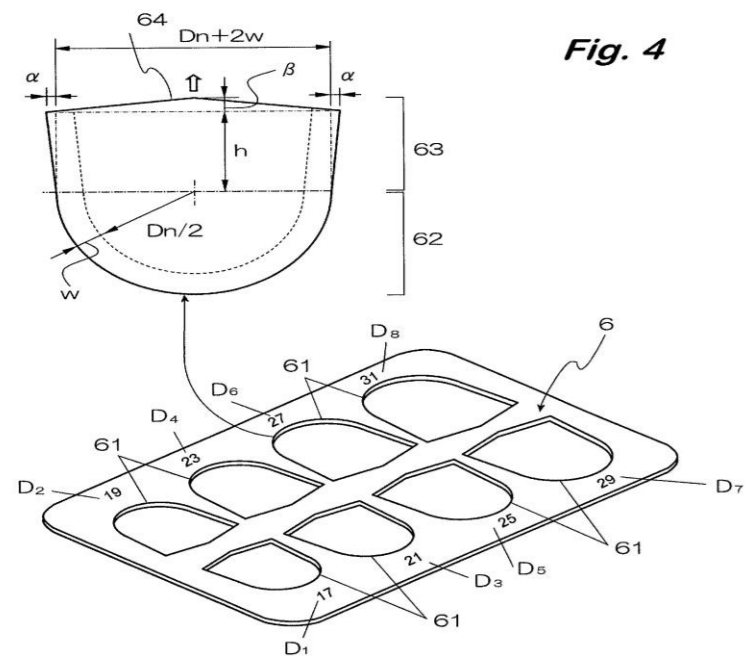




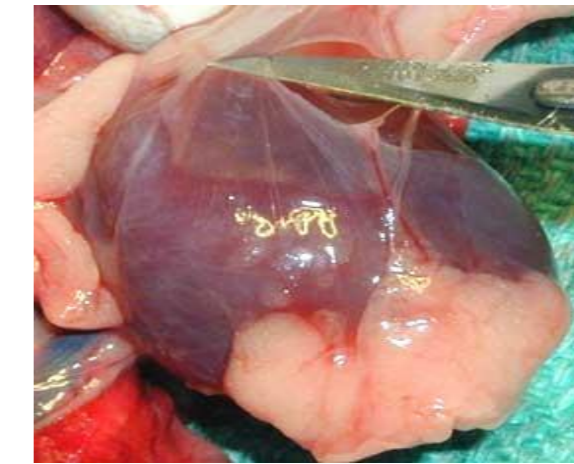
# Sizing Valve Leaflets



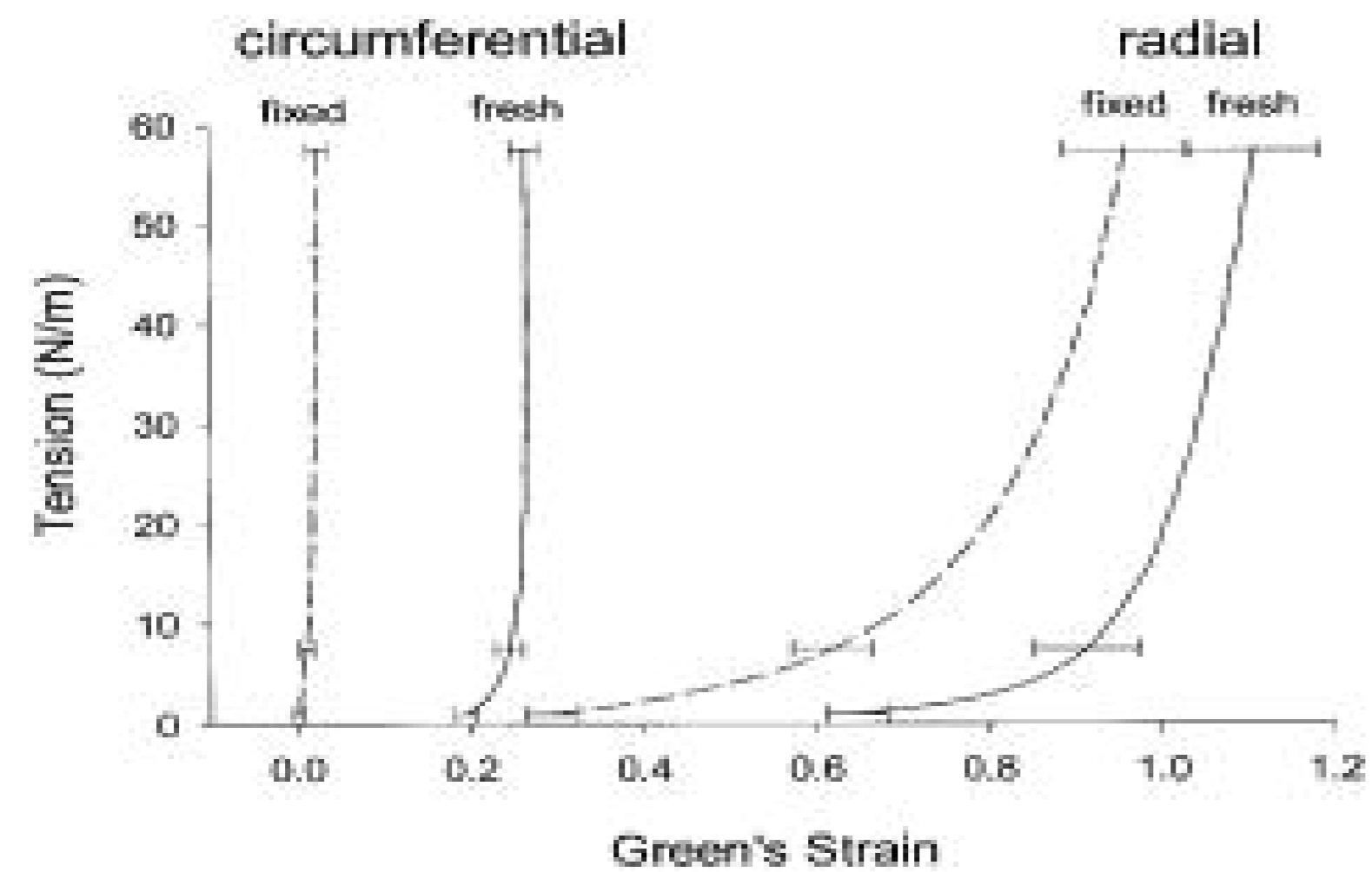
# Marking Templates



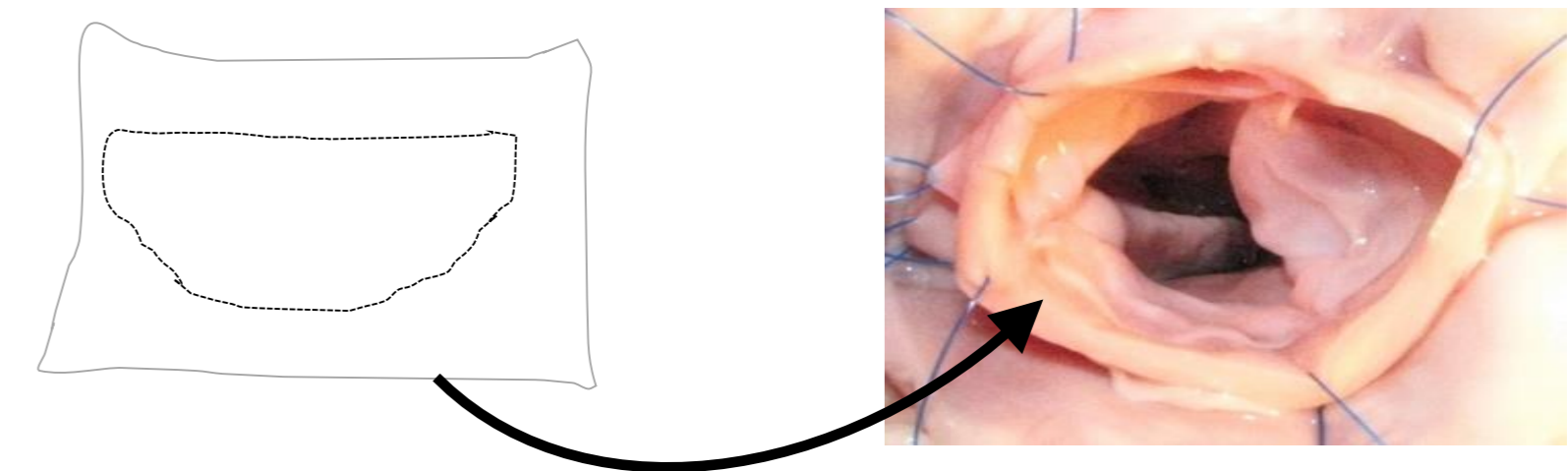
# Tissue substitute material



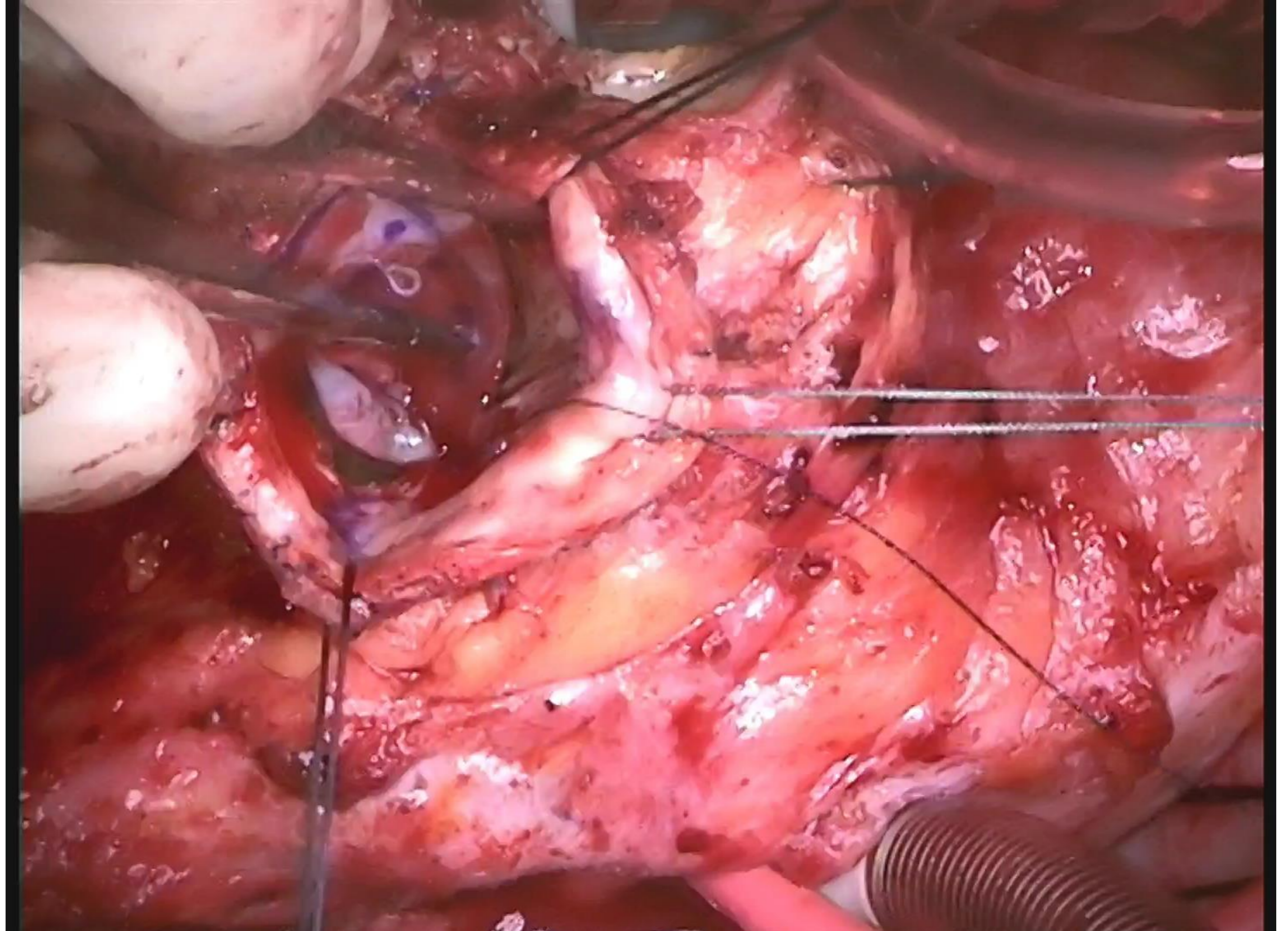
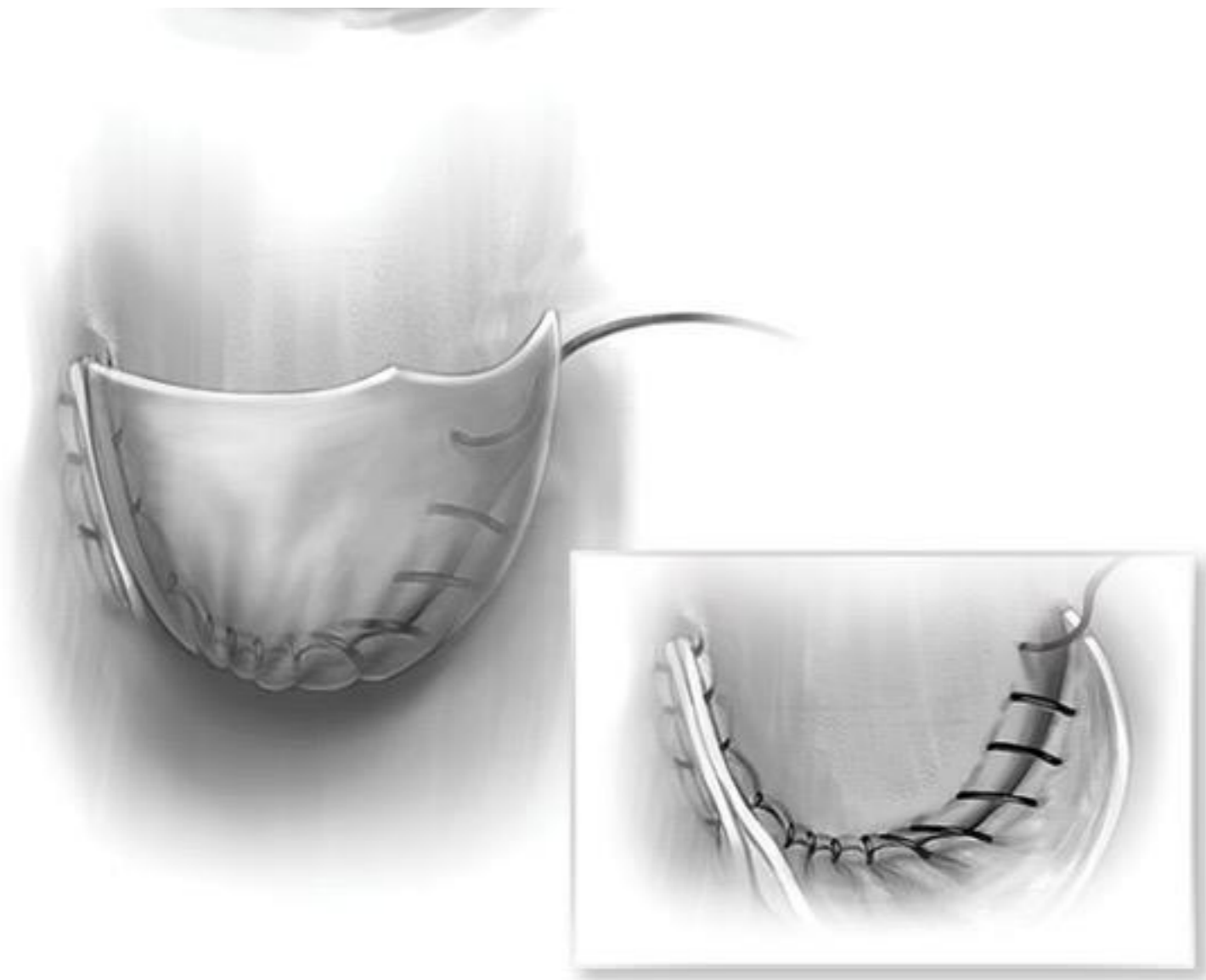
Pericardium



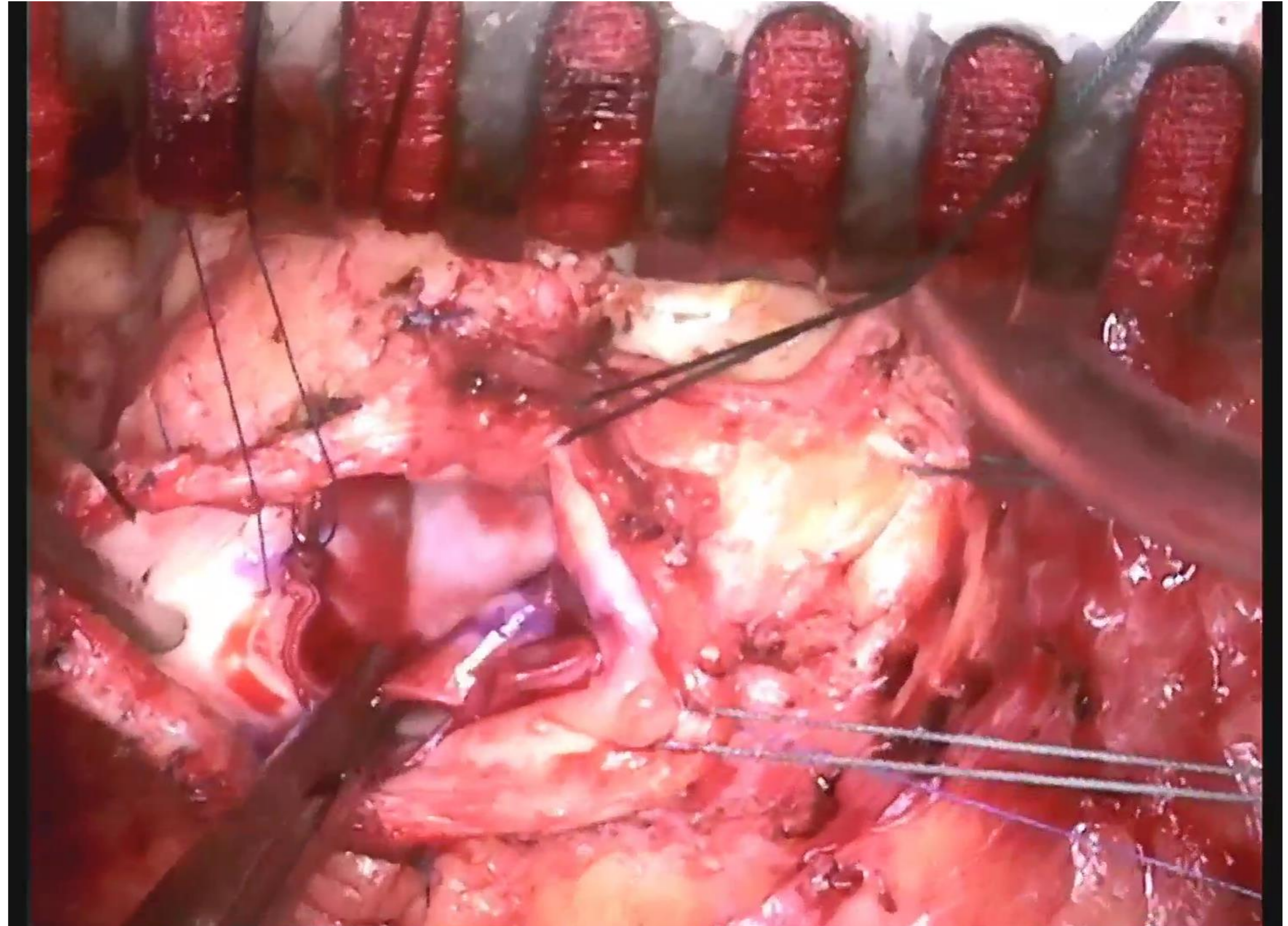
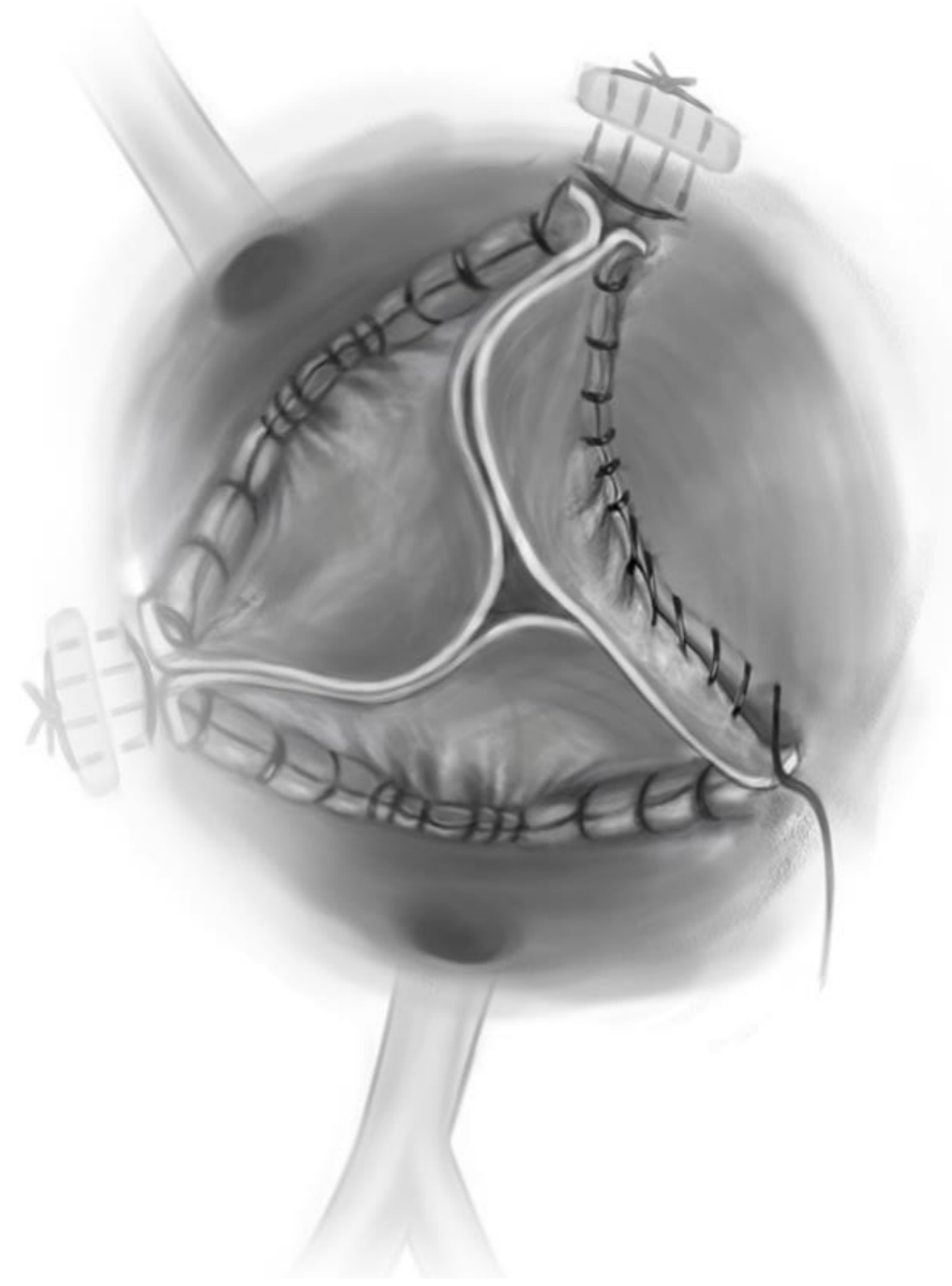
(a)

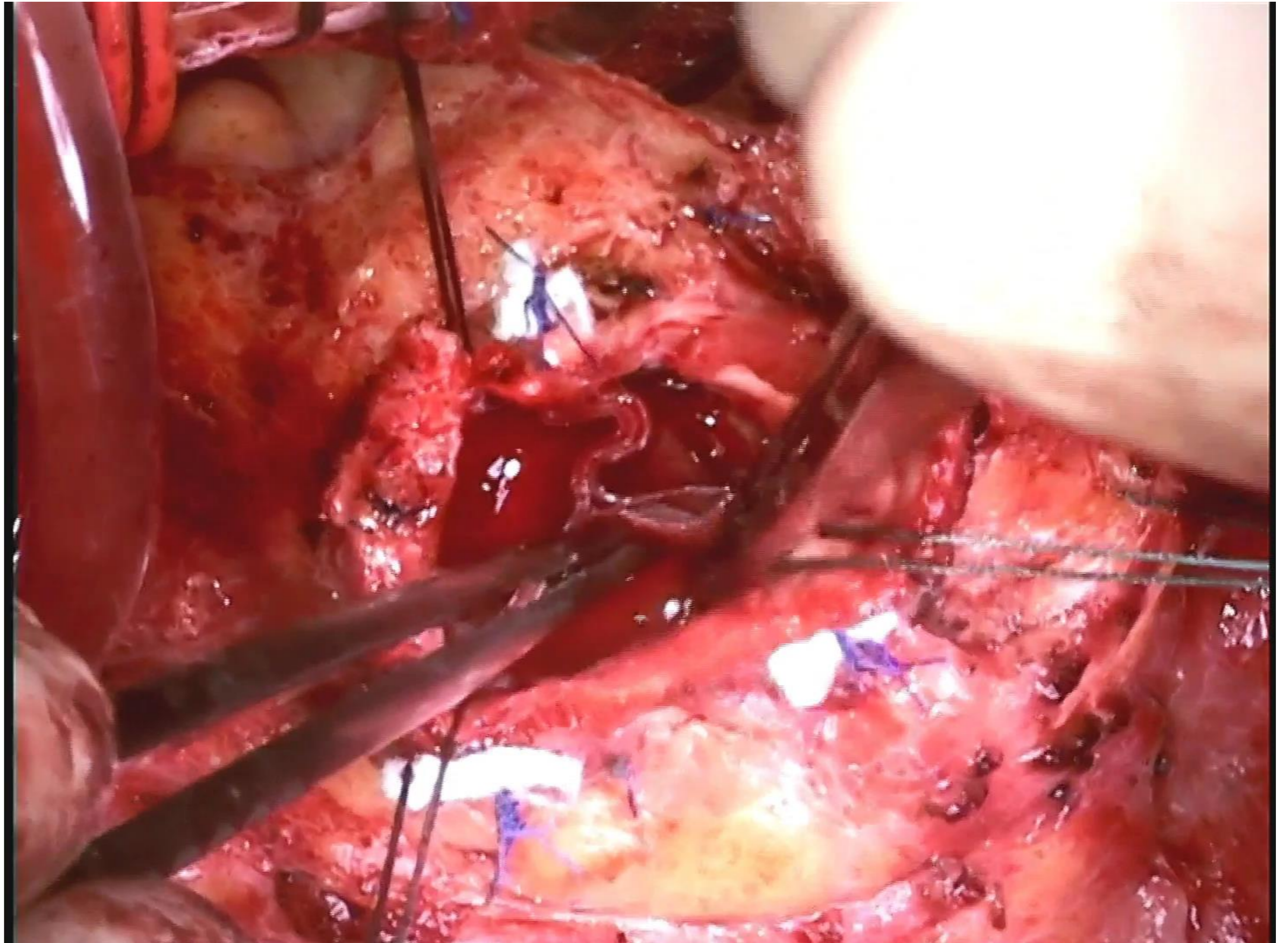
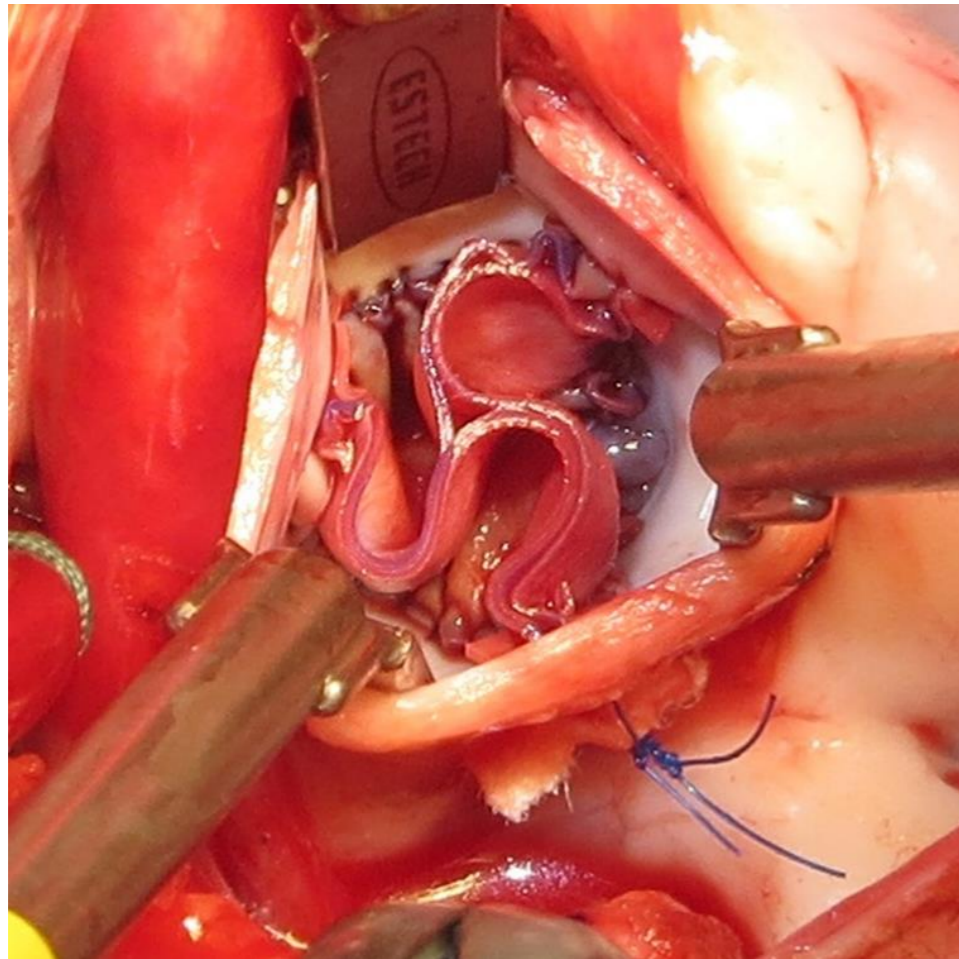


# Suturing 1<sup>st</sup> leaflet

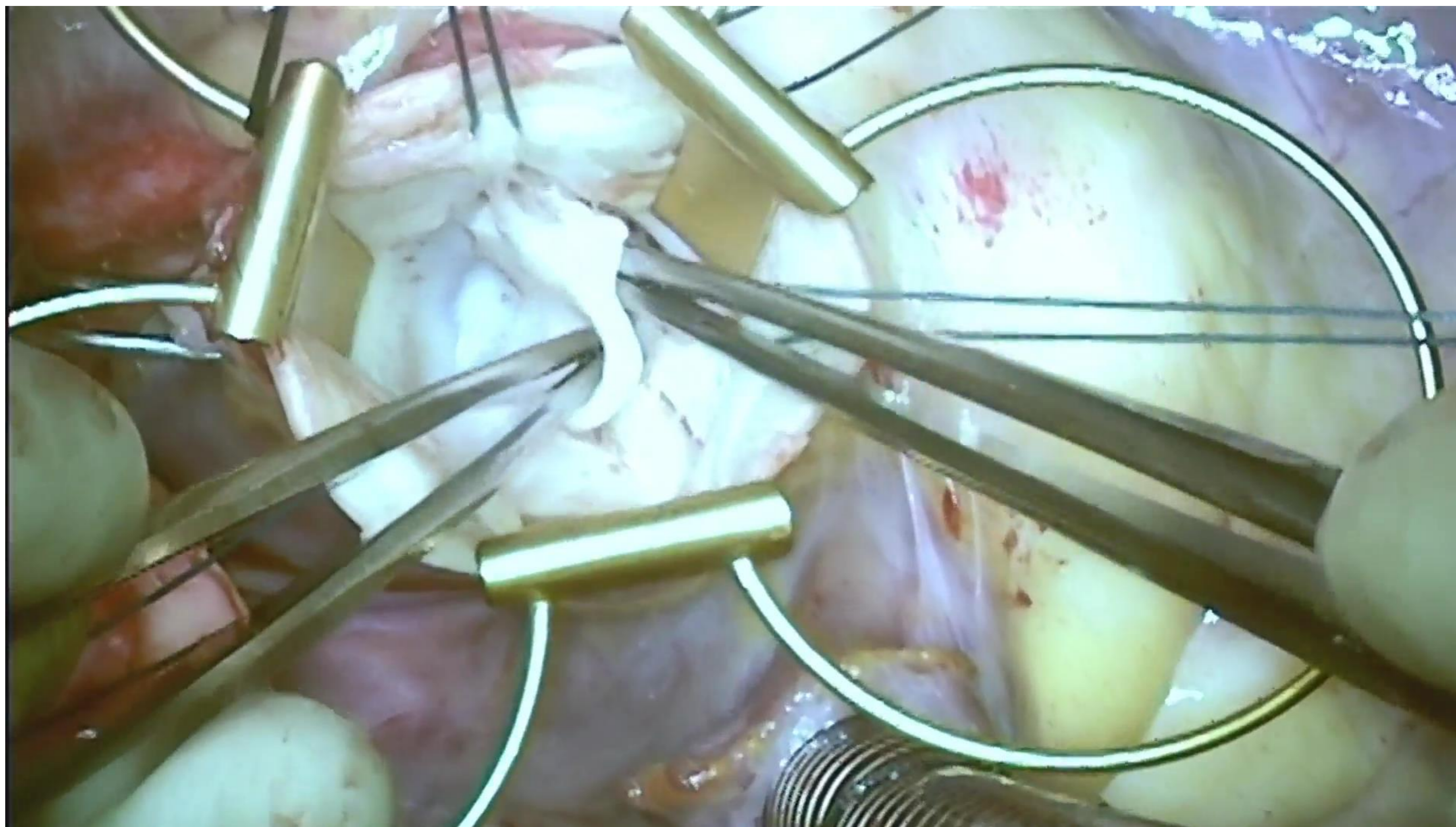


# Second leaflet

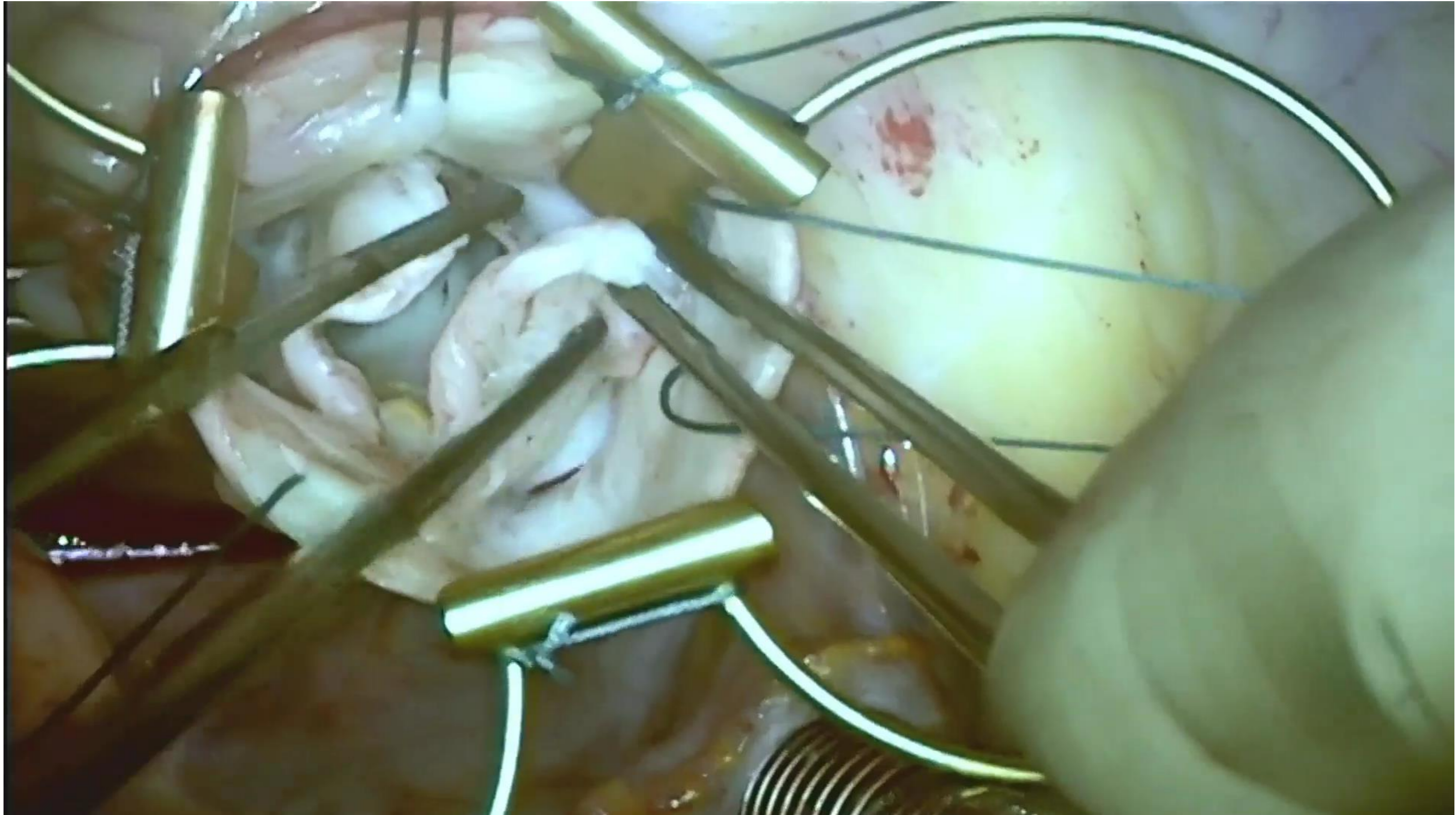




# Single leaflet tear

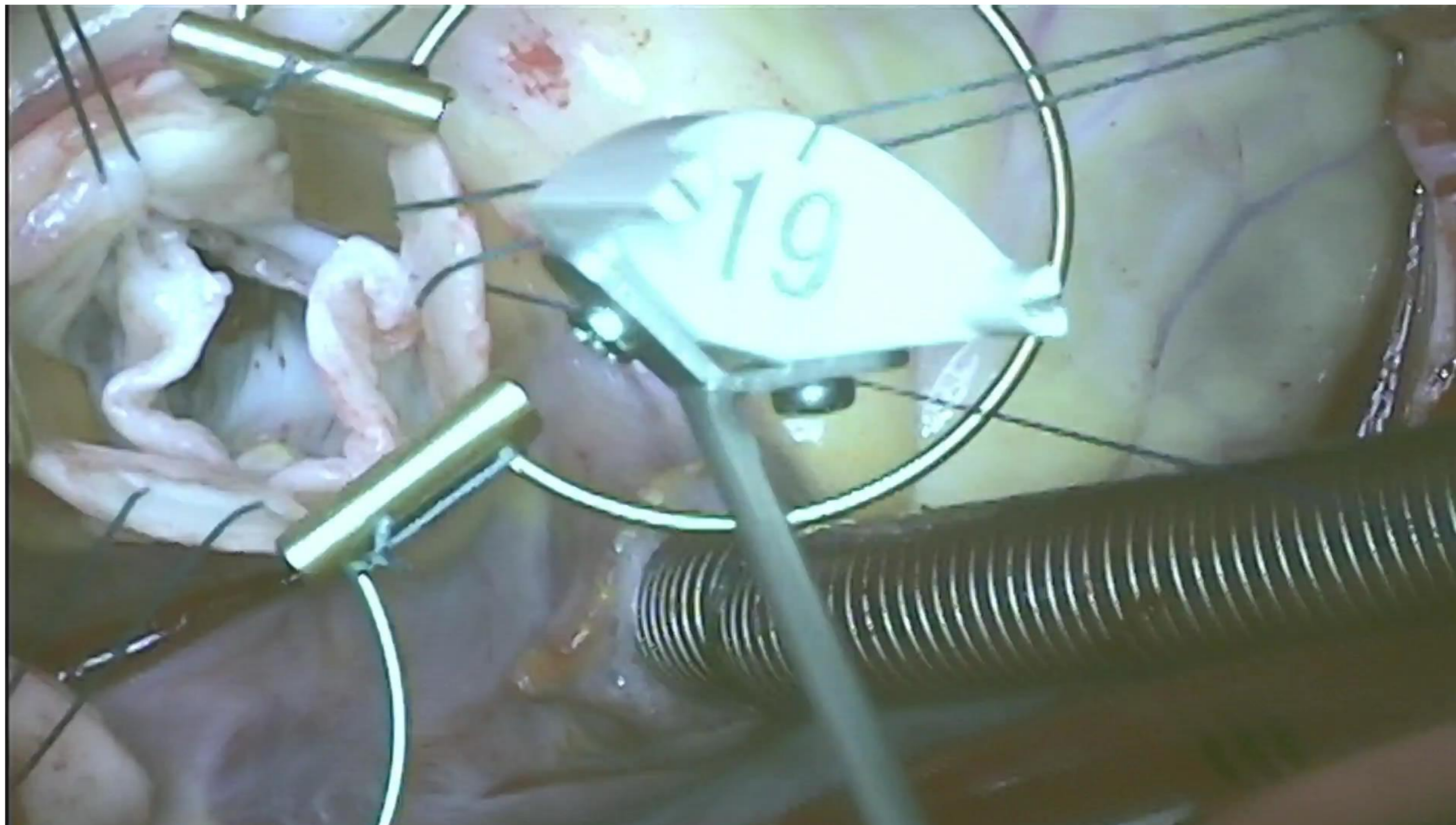


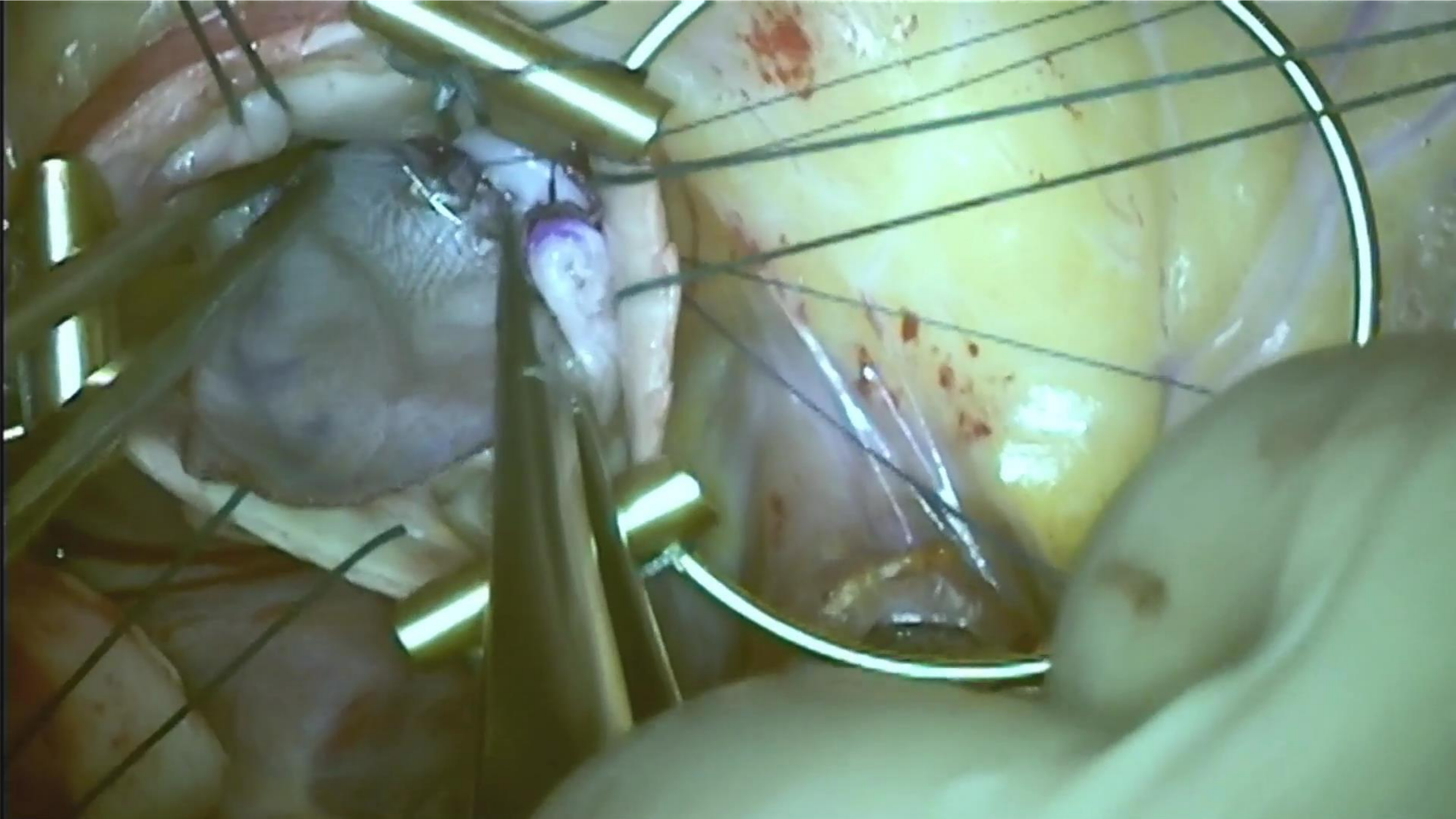
# Suspending Non-coronary Leaflet





# Sizing Anterior Leaflet

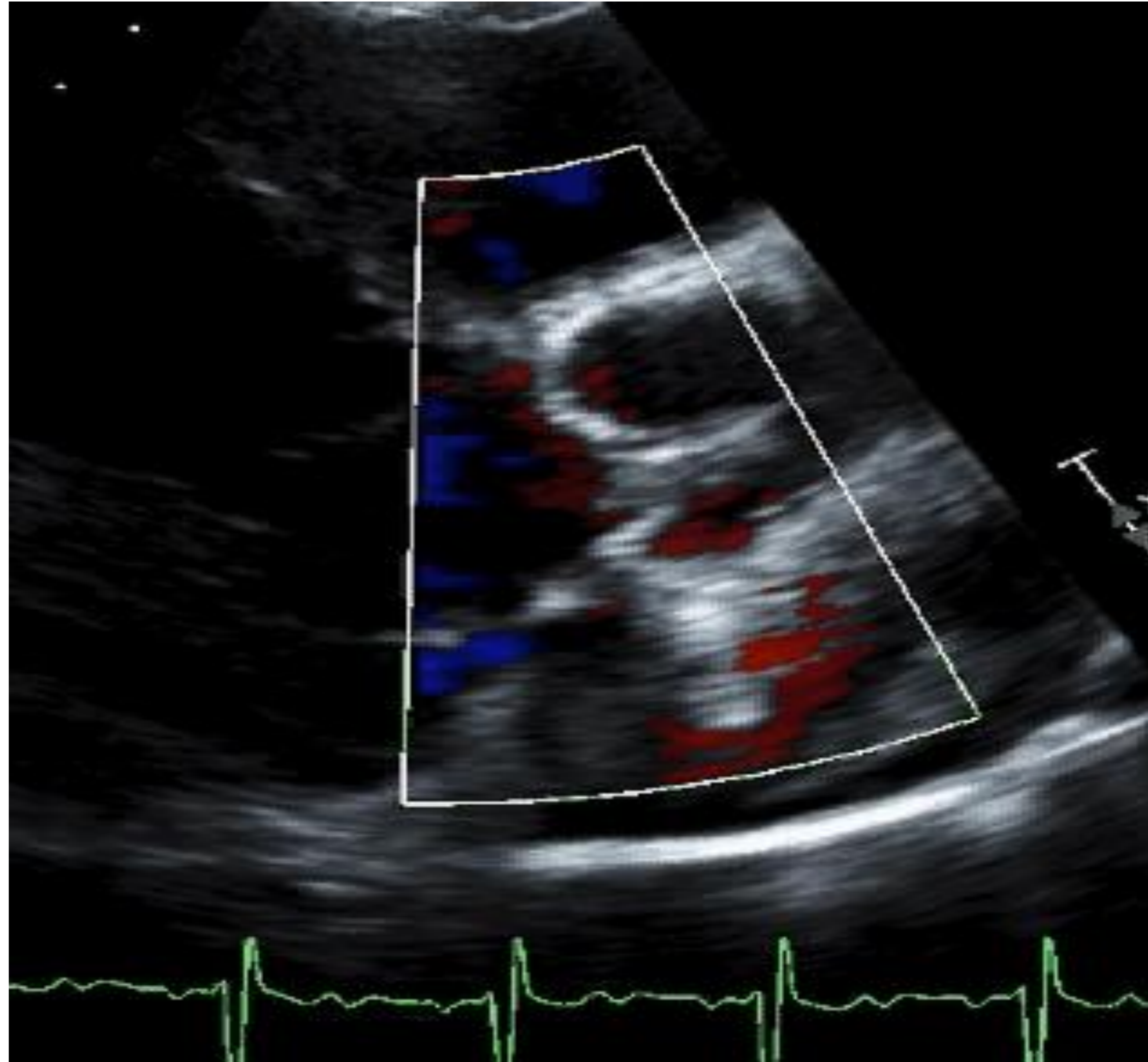




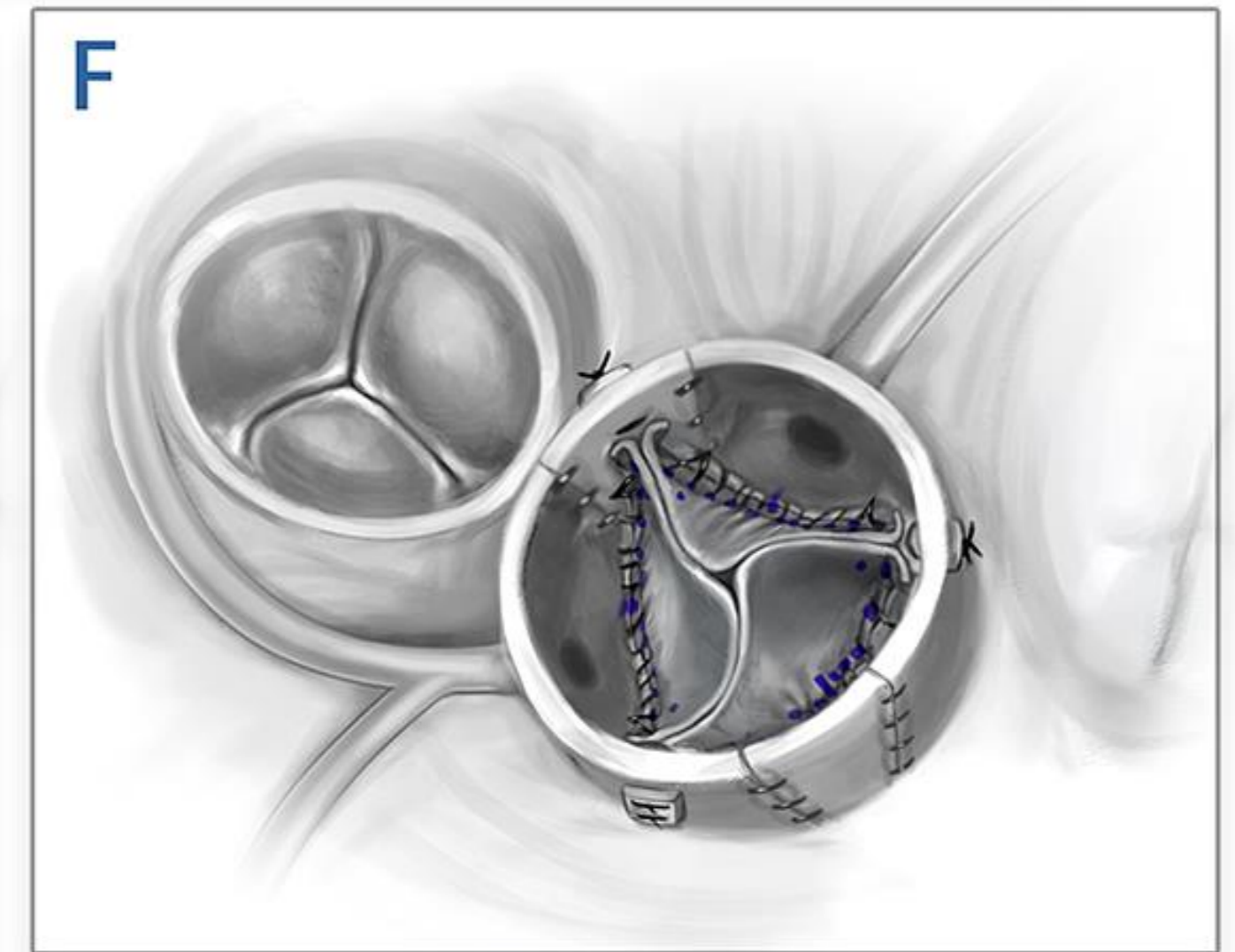
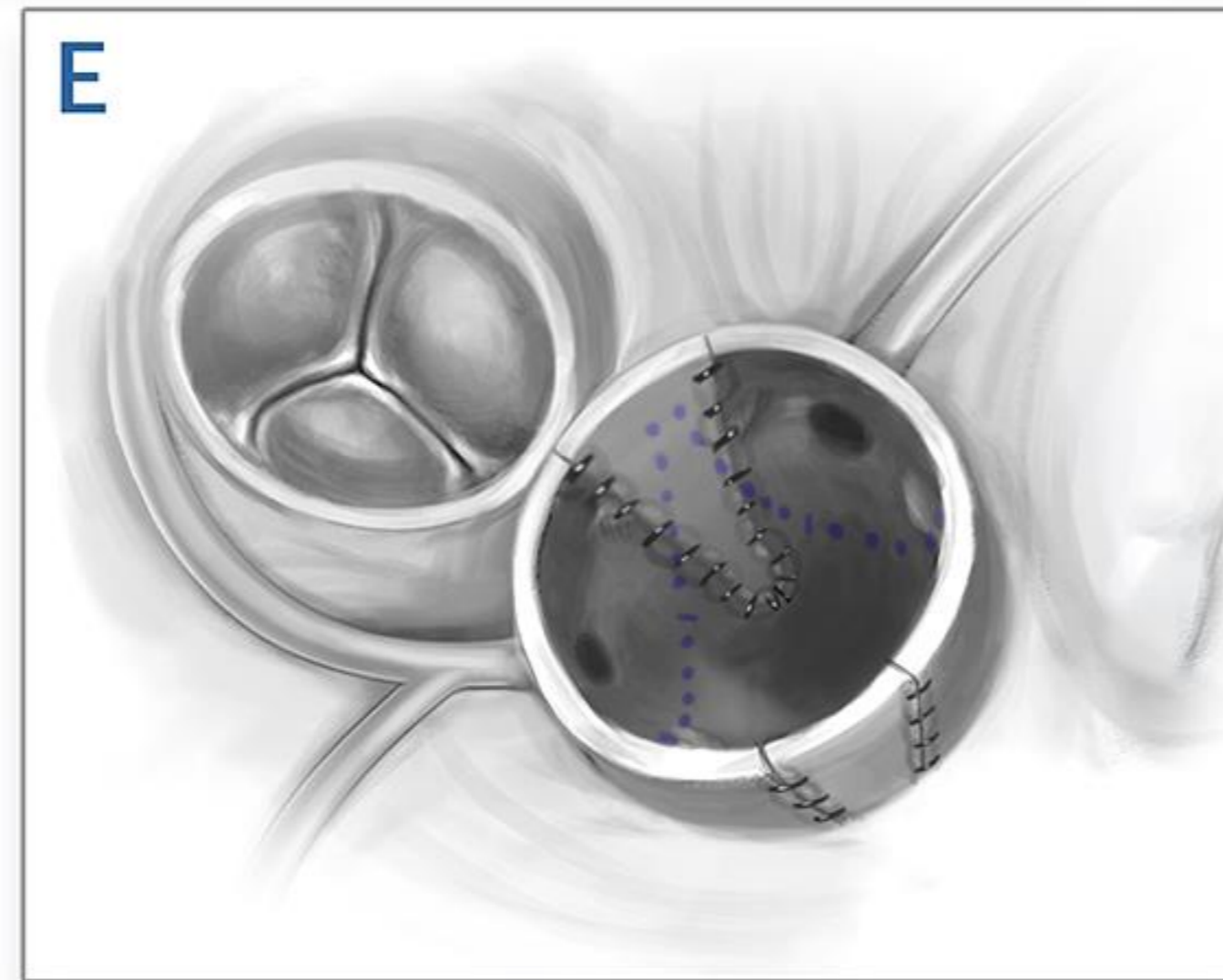
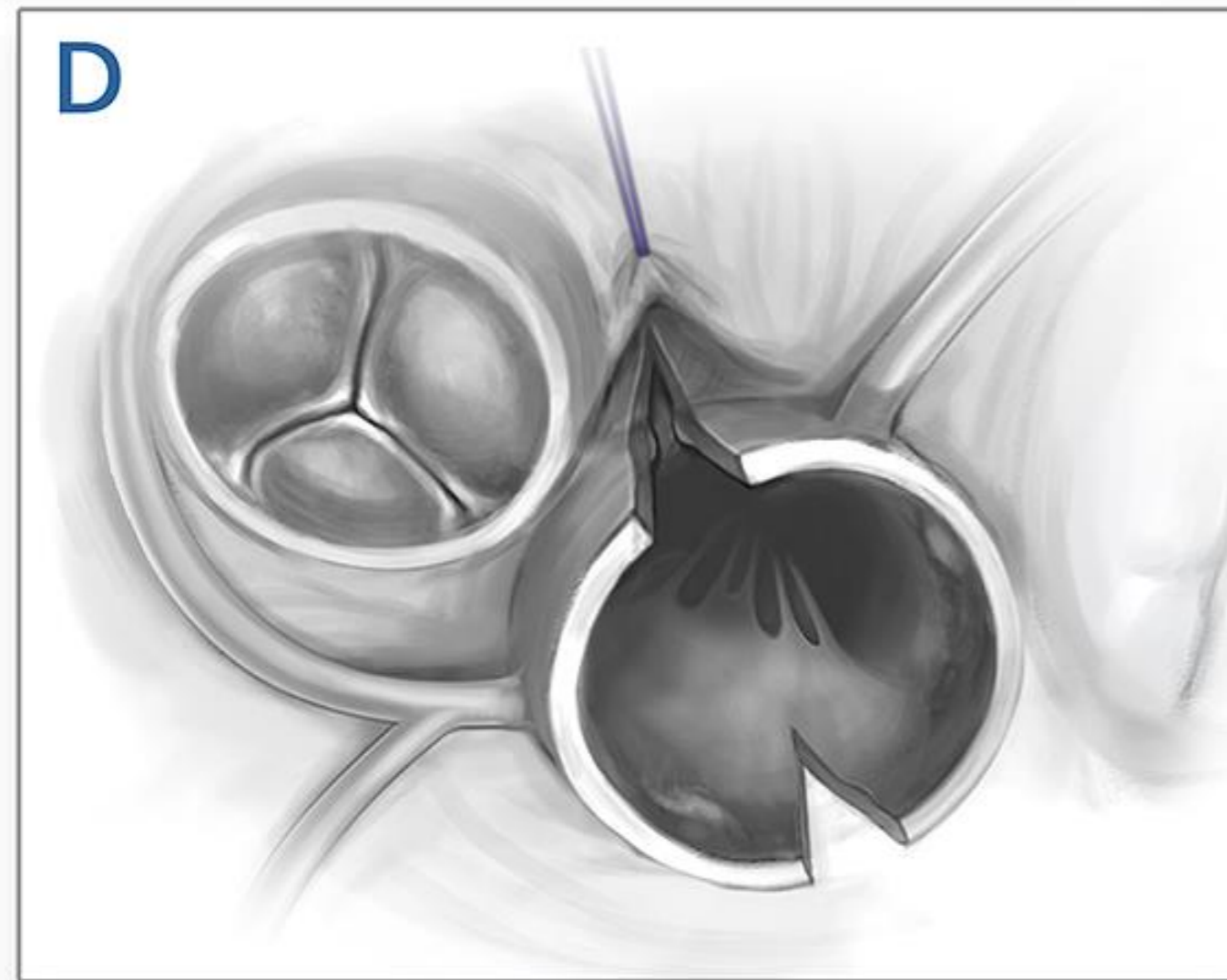
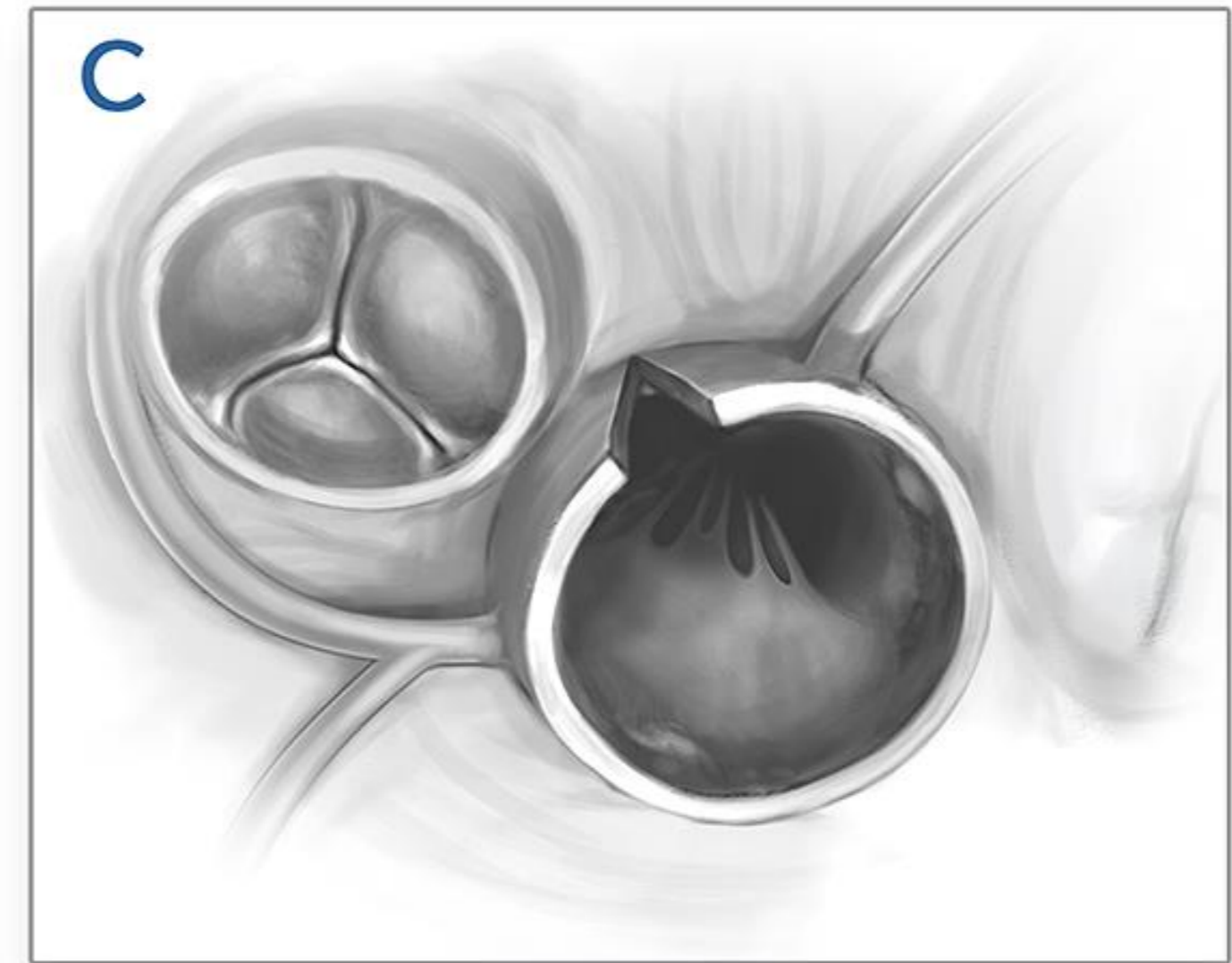
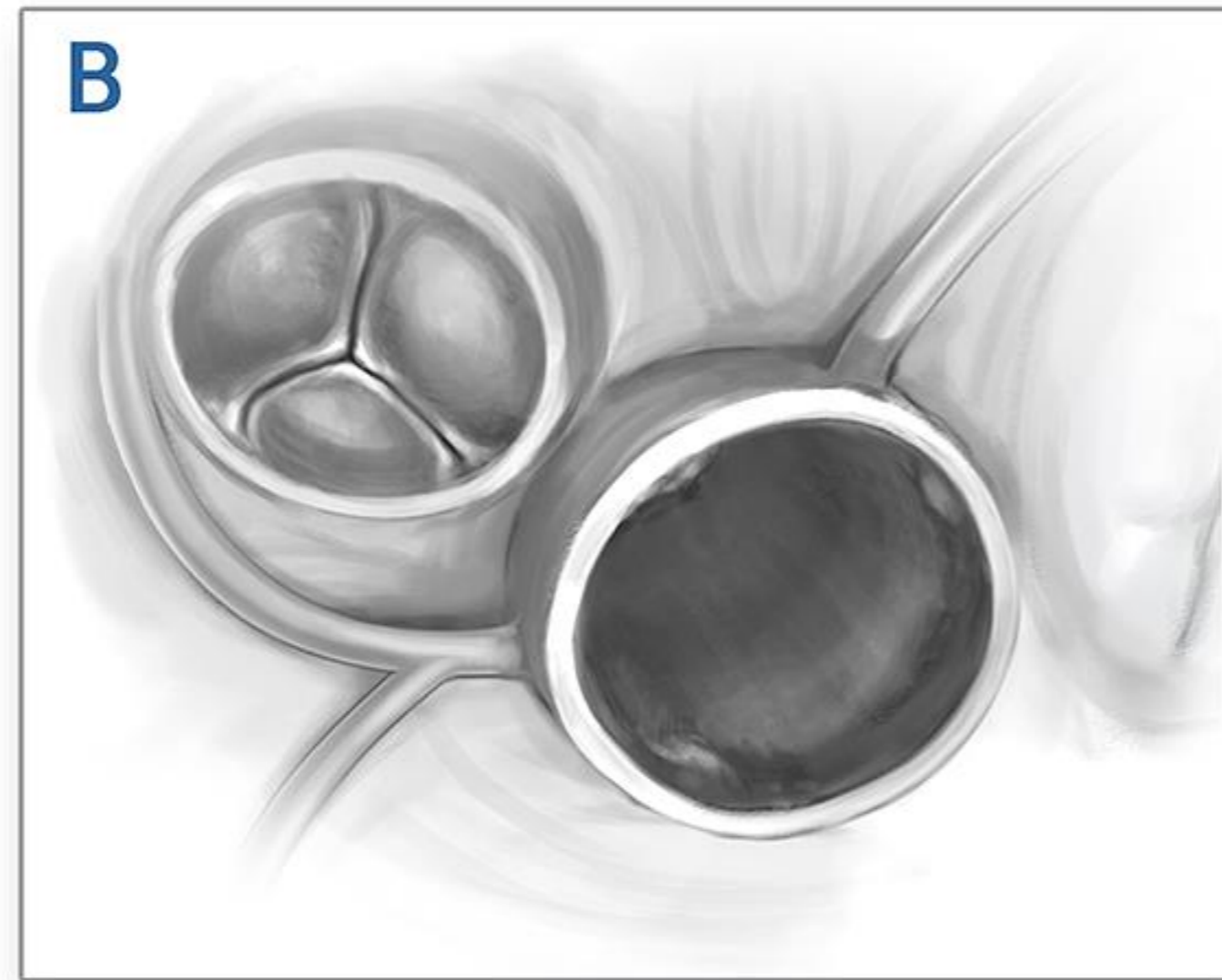
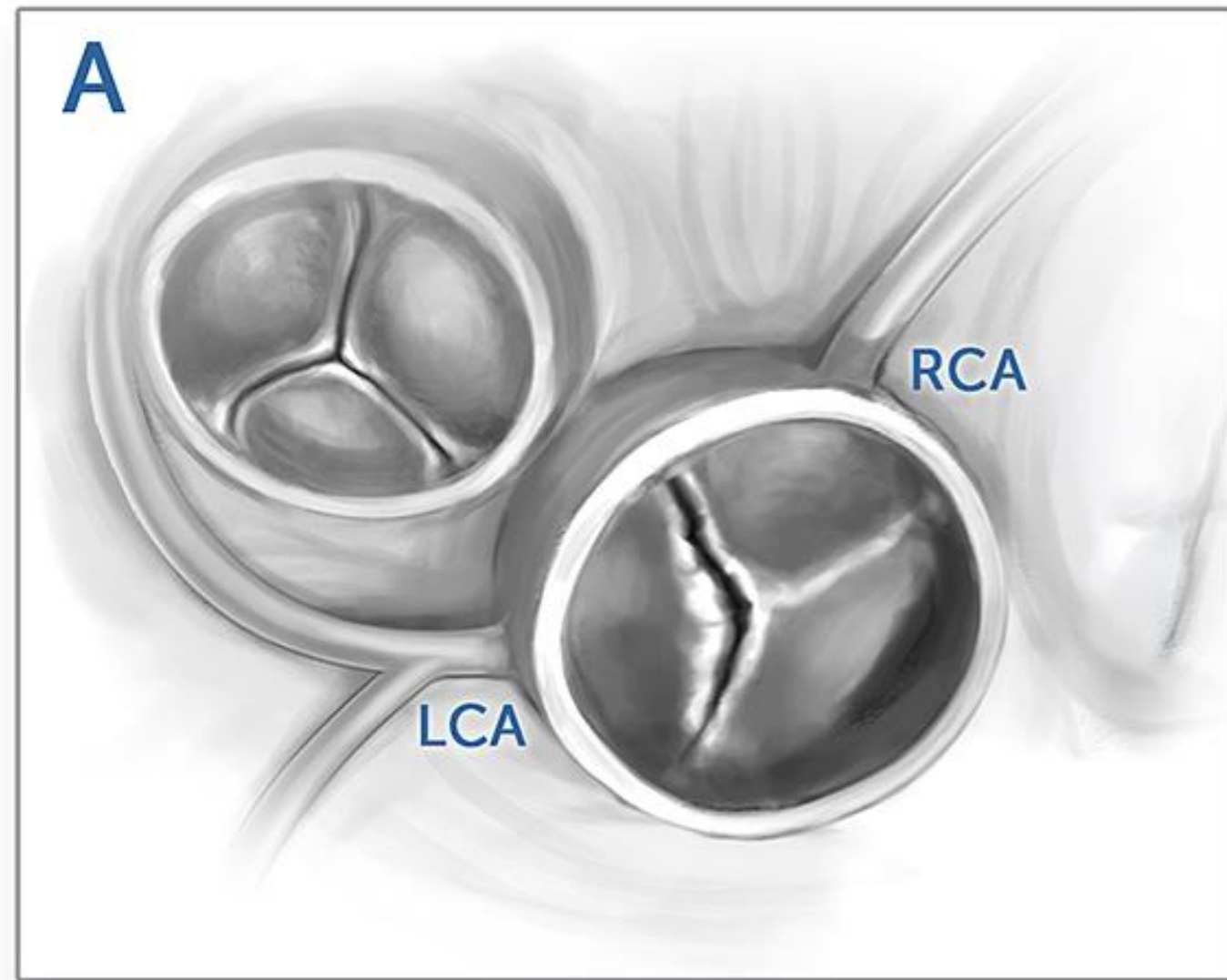
# Final Inspection and Trimming



# Post-operative Echo



# Root enlargement- Konno and Manougian procedures



**Thank you**