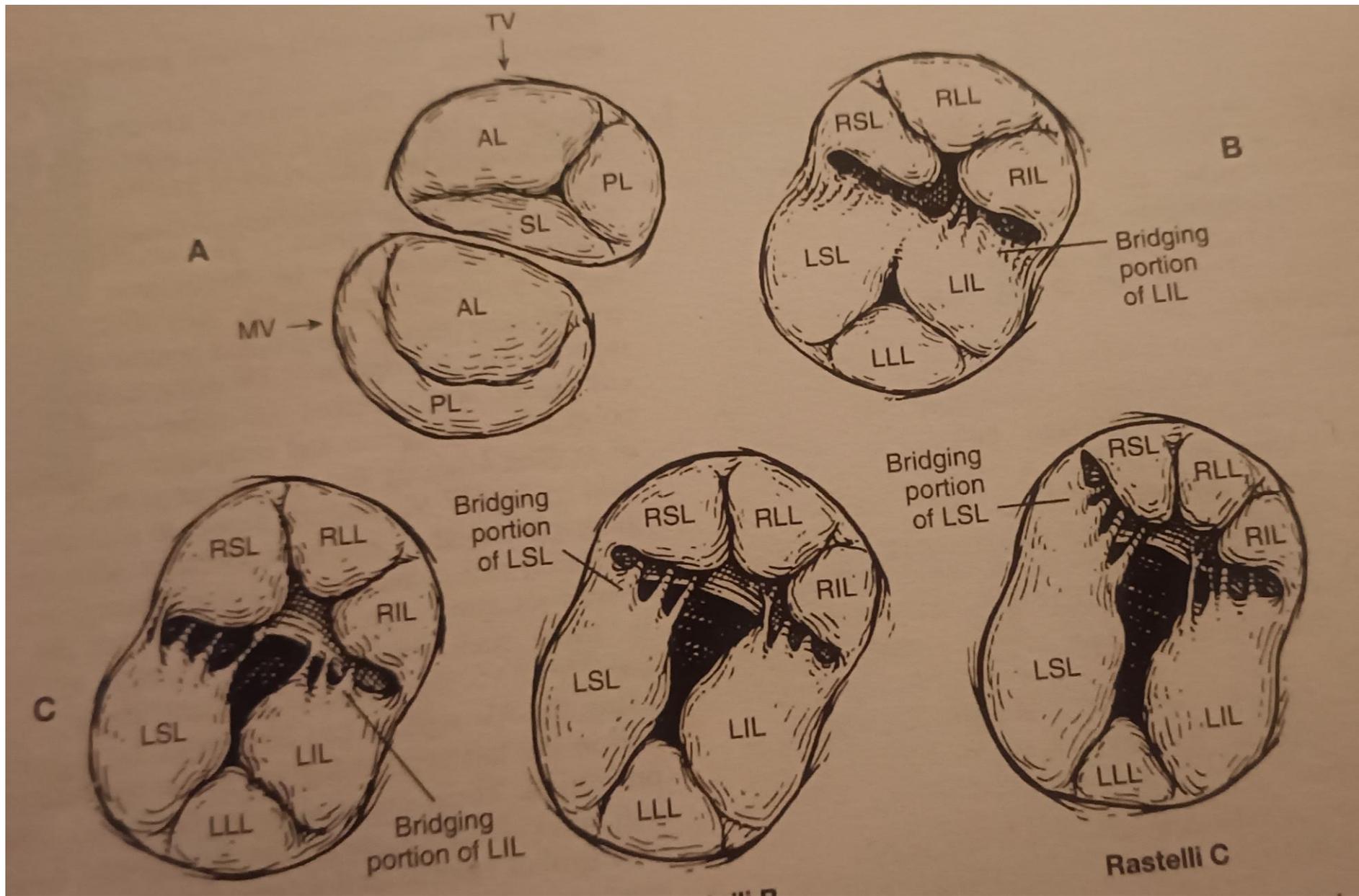


Surgical repair of Common Atrioventricular valve defects with complex leaflet arrangement

Dr Brijesh P Kottayil

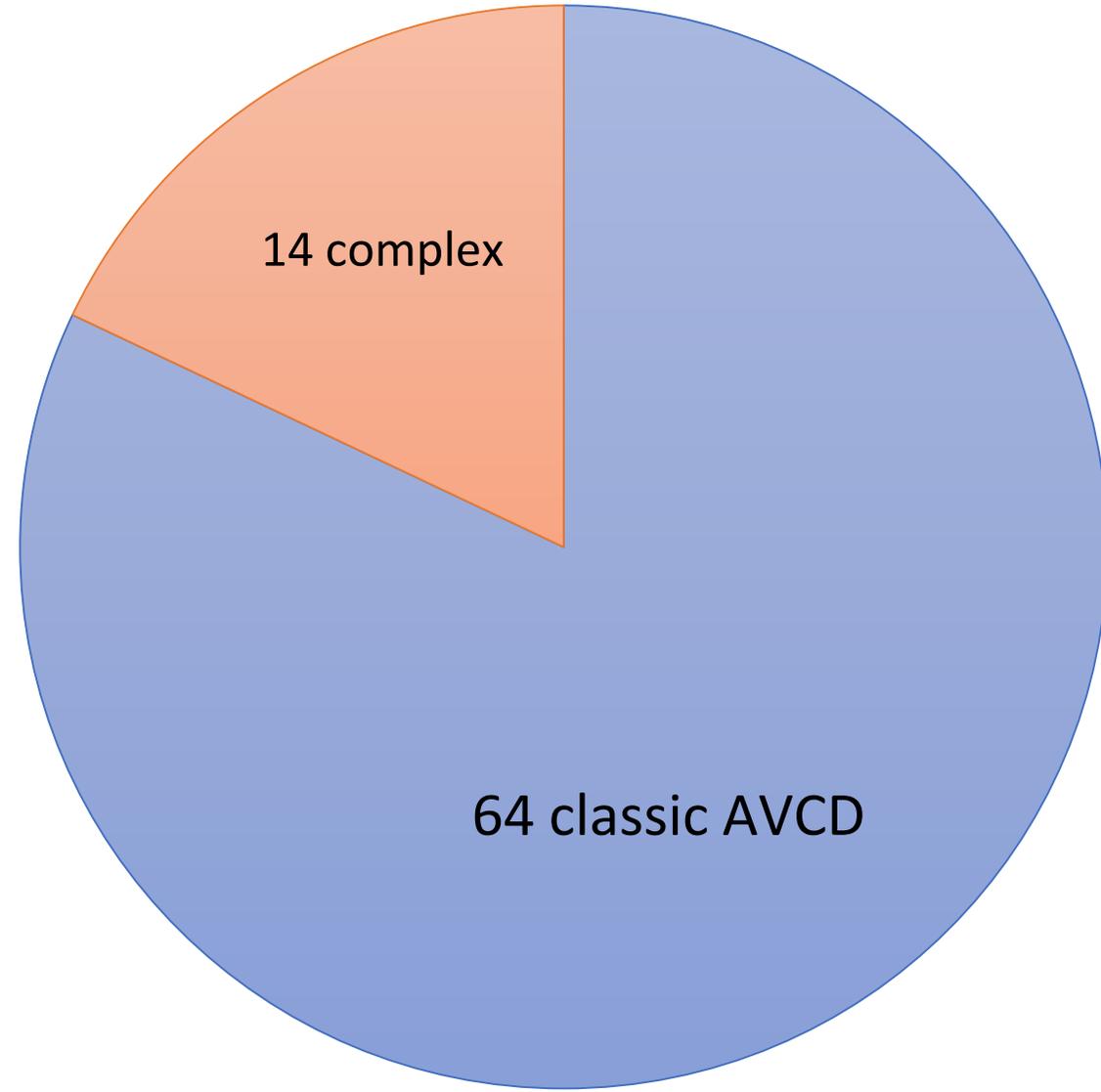
Department of Pediatric Cardiac Surgery

Amrita hospital ,Kochi, India

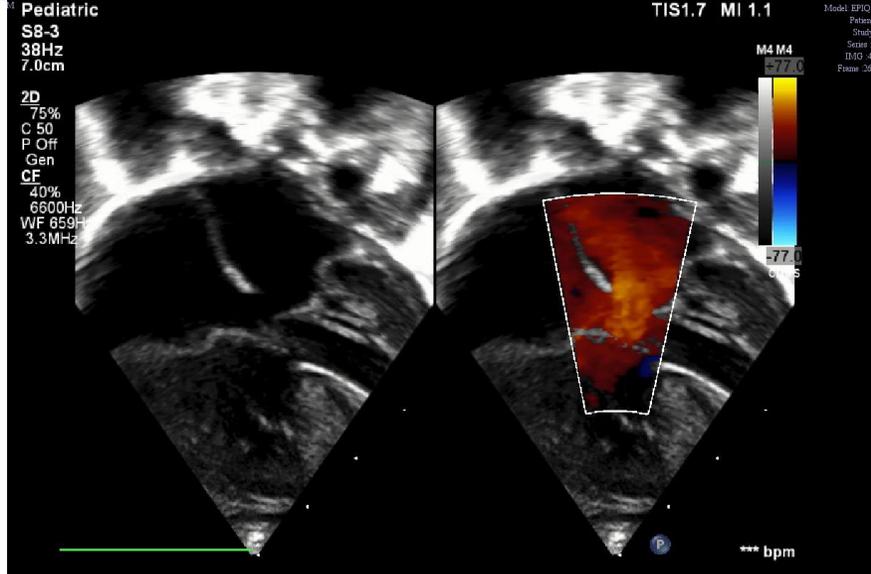
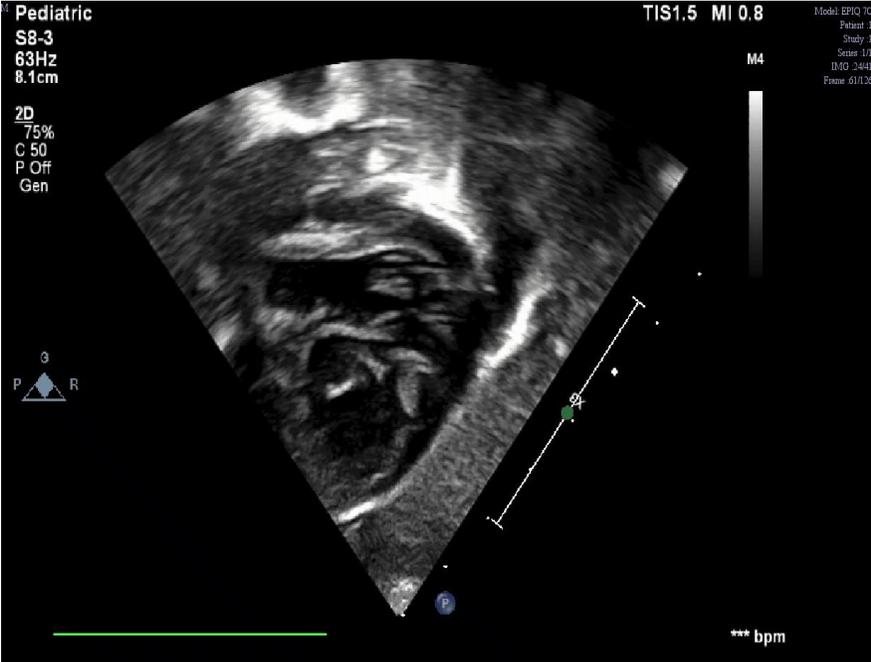
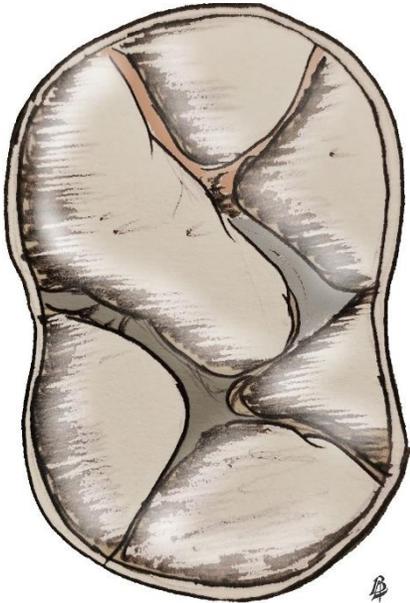


CAVCD

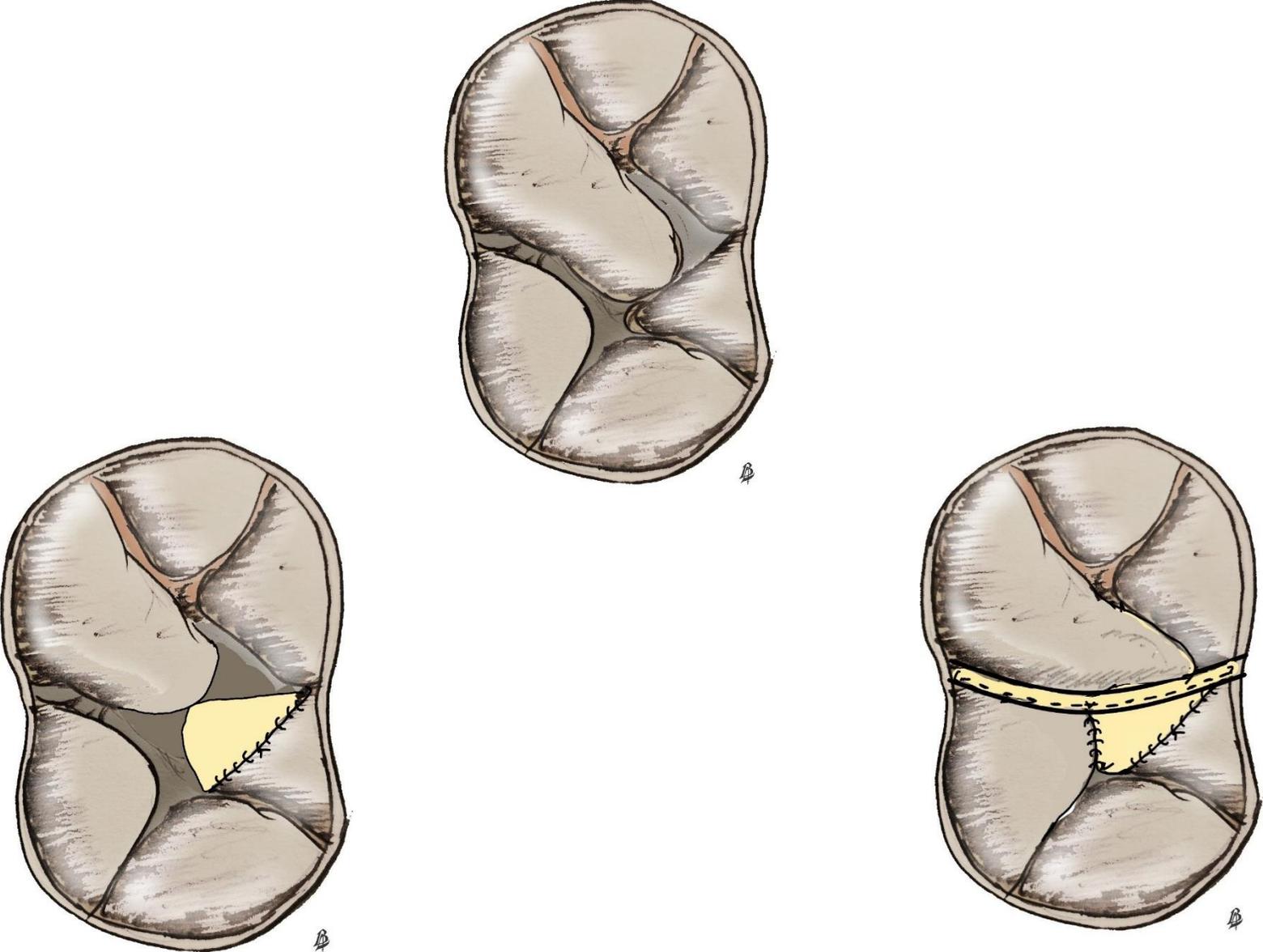
- 2014 to 2023
- 78 Children :-
 - 67 Isolated complete AVCD
 - 11 CAVCD with additional cardiac defects

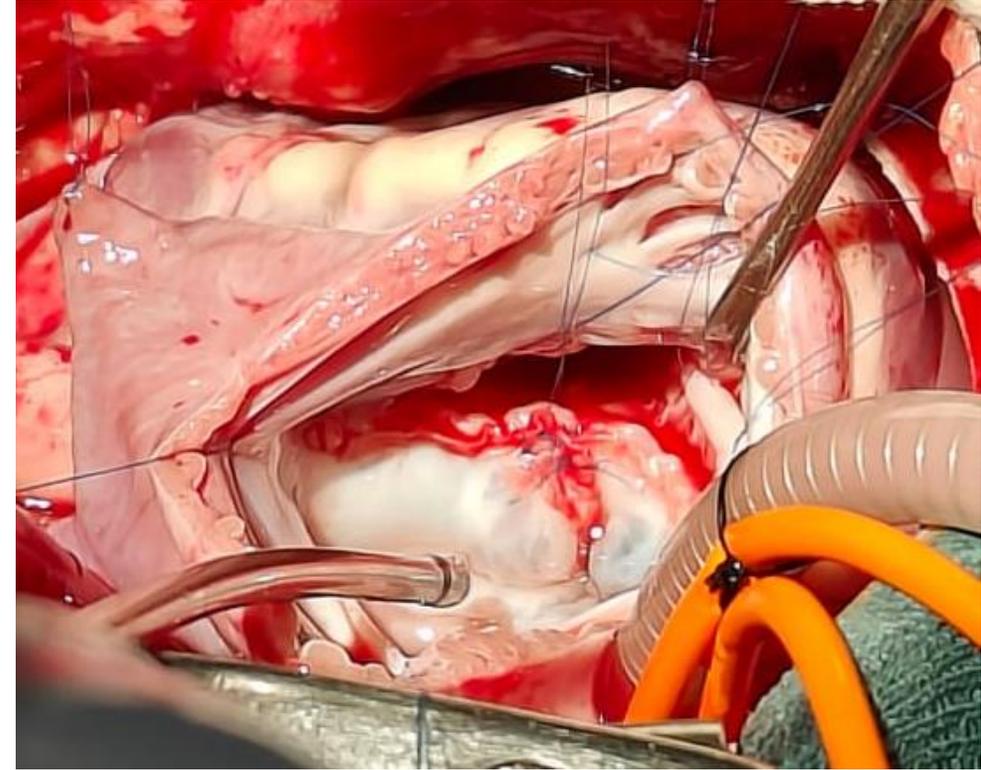
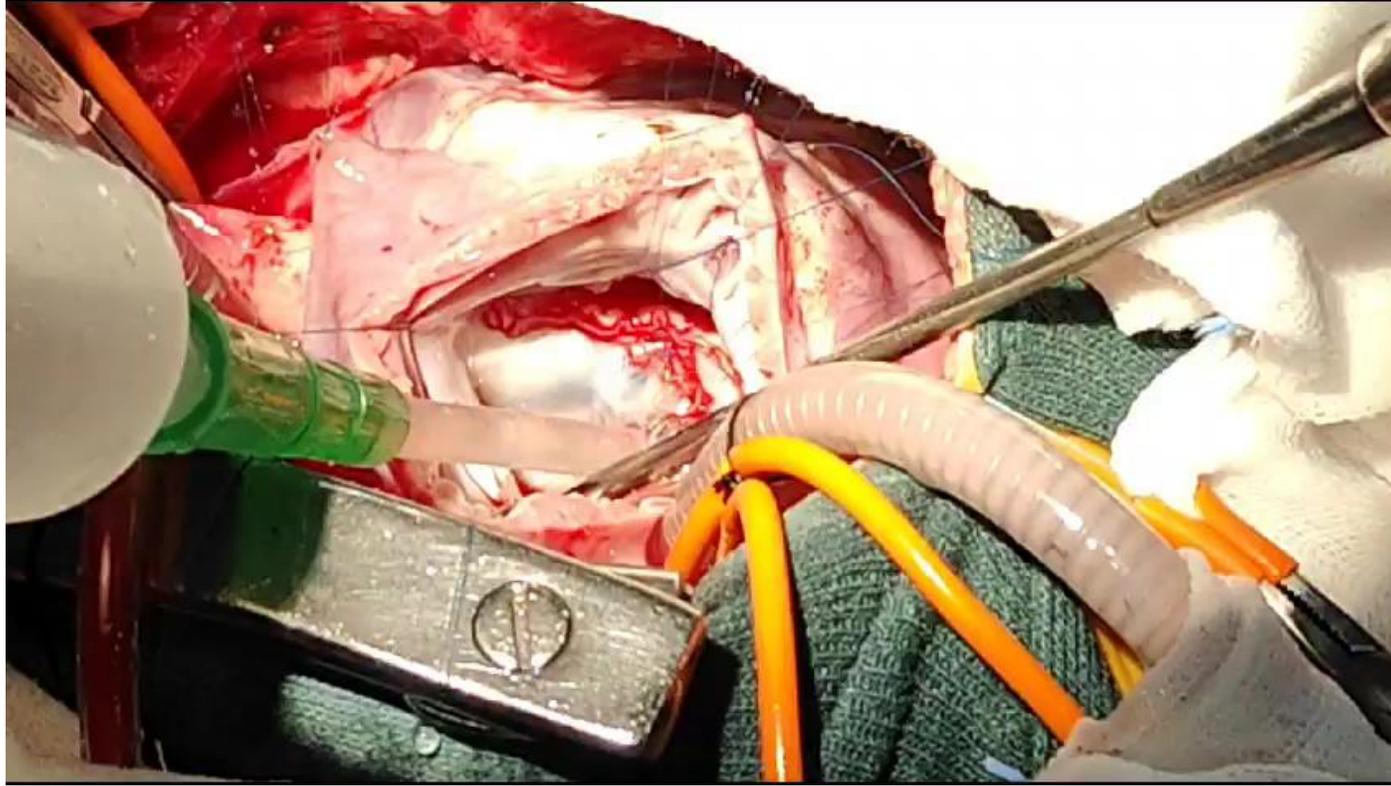


Deficient Mitral leaflet component

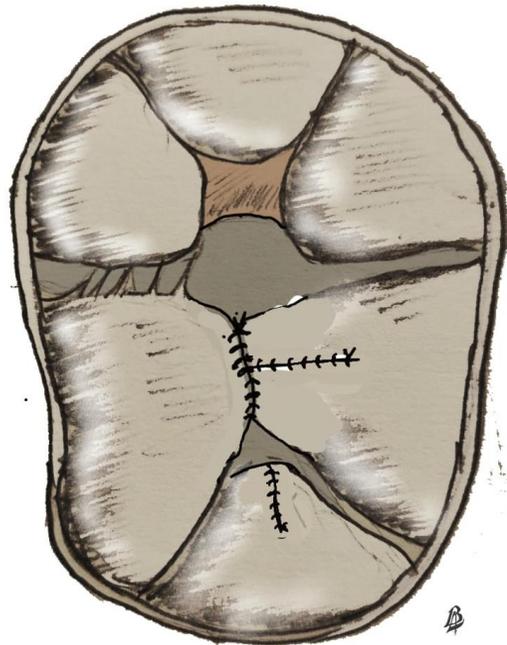
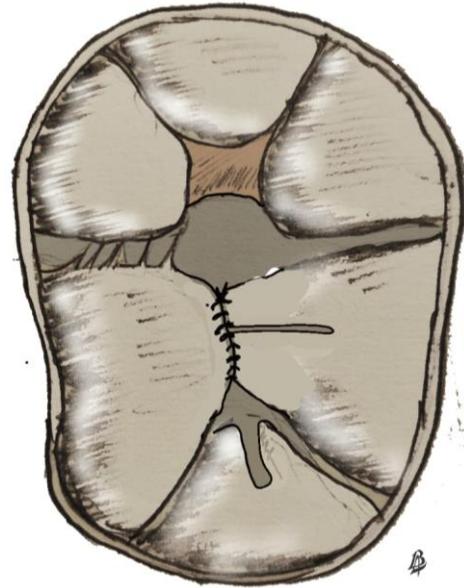
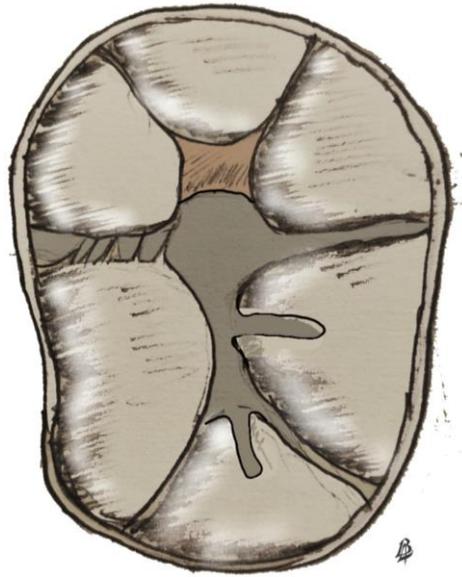


Leaflet Augmentation

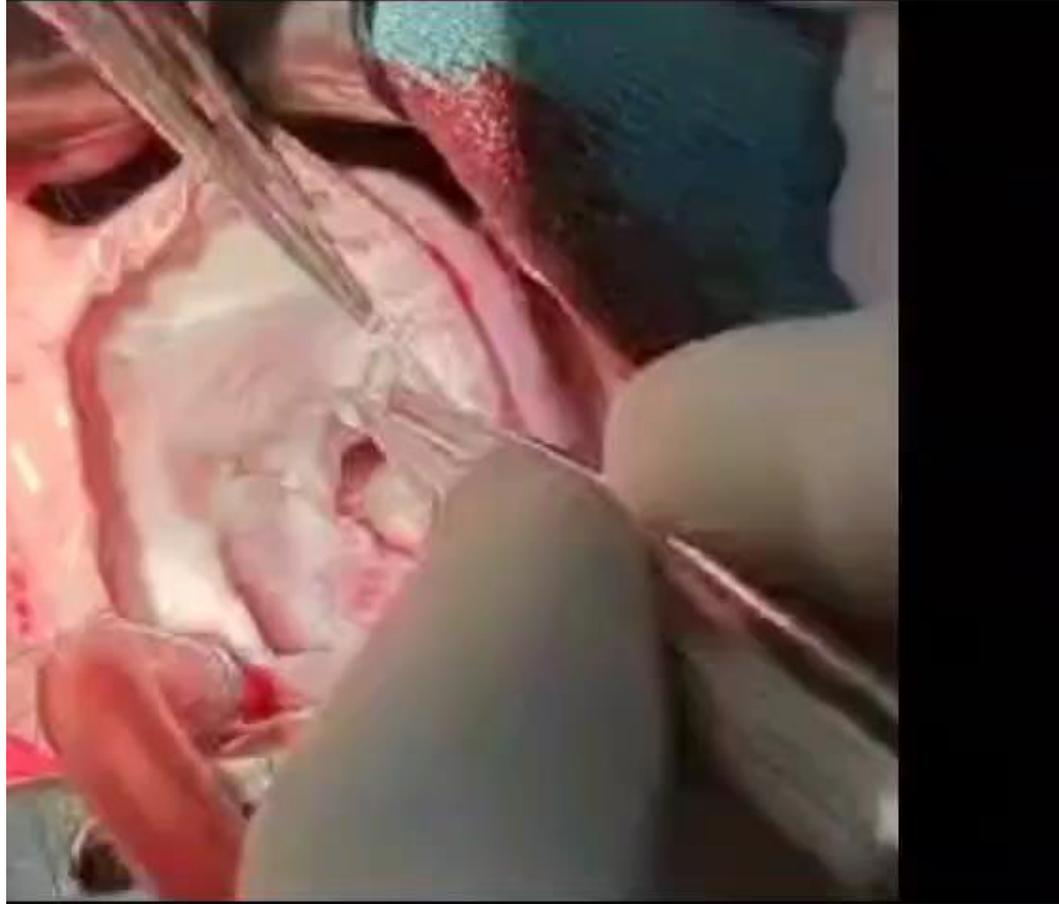
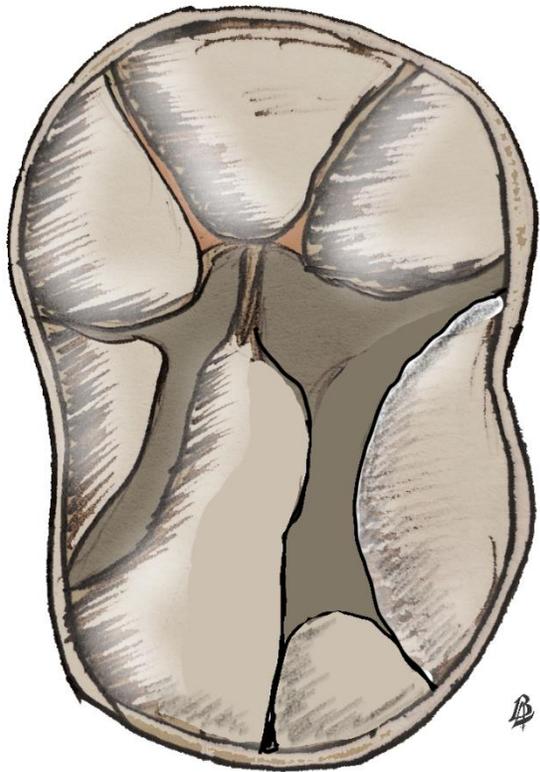




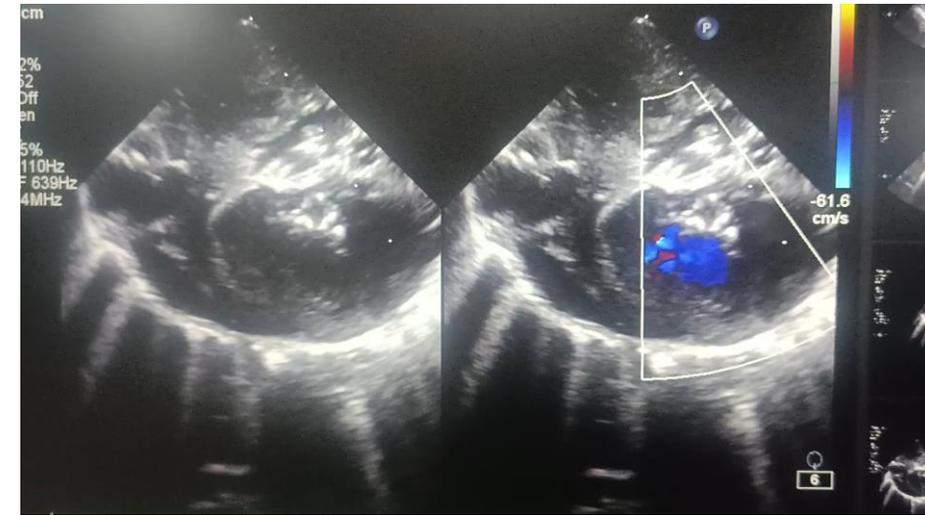
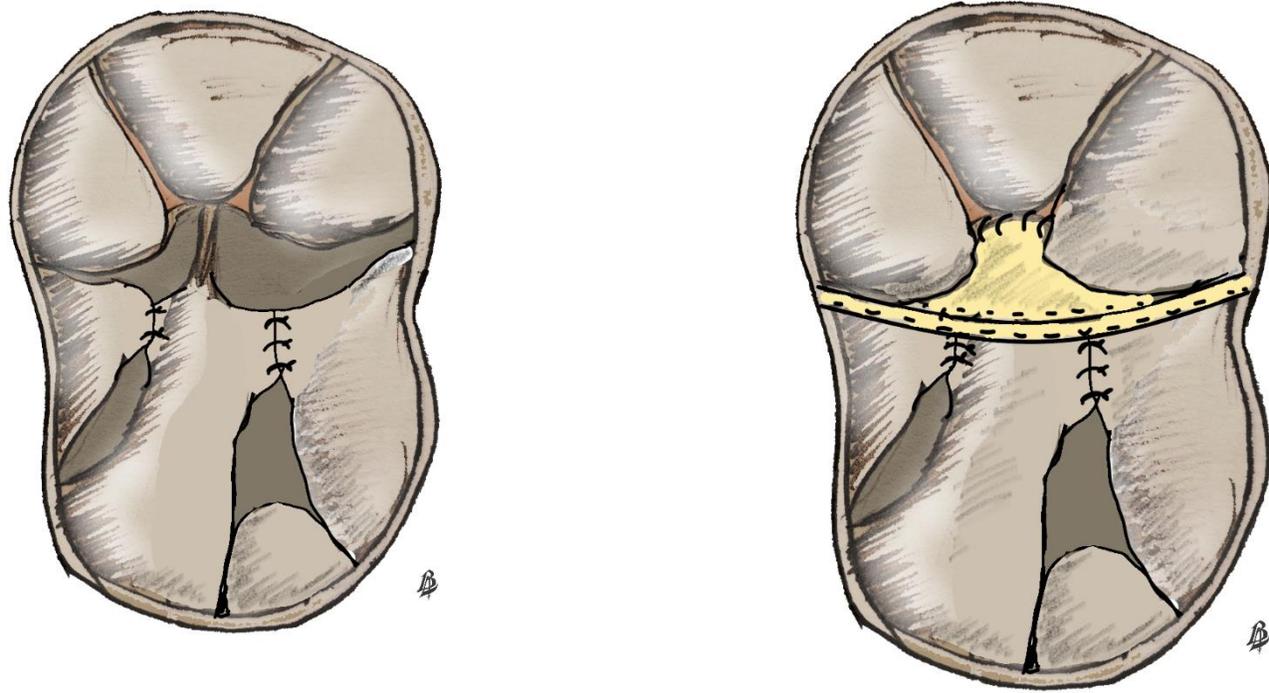
Multiple cleft



CAVCD with Double orifice Mitral component

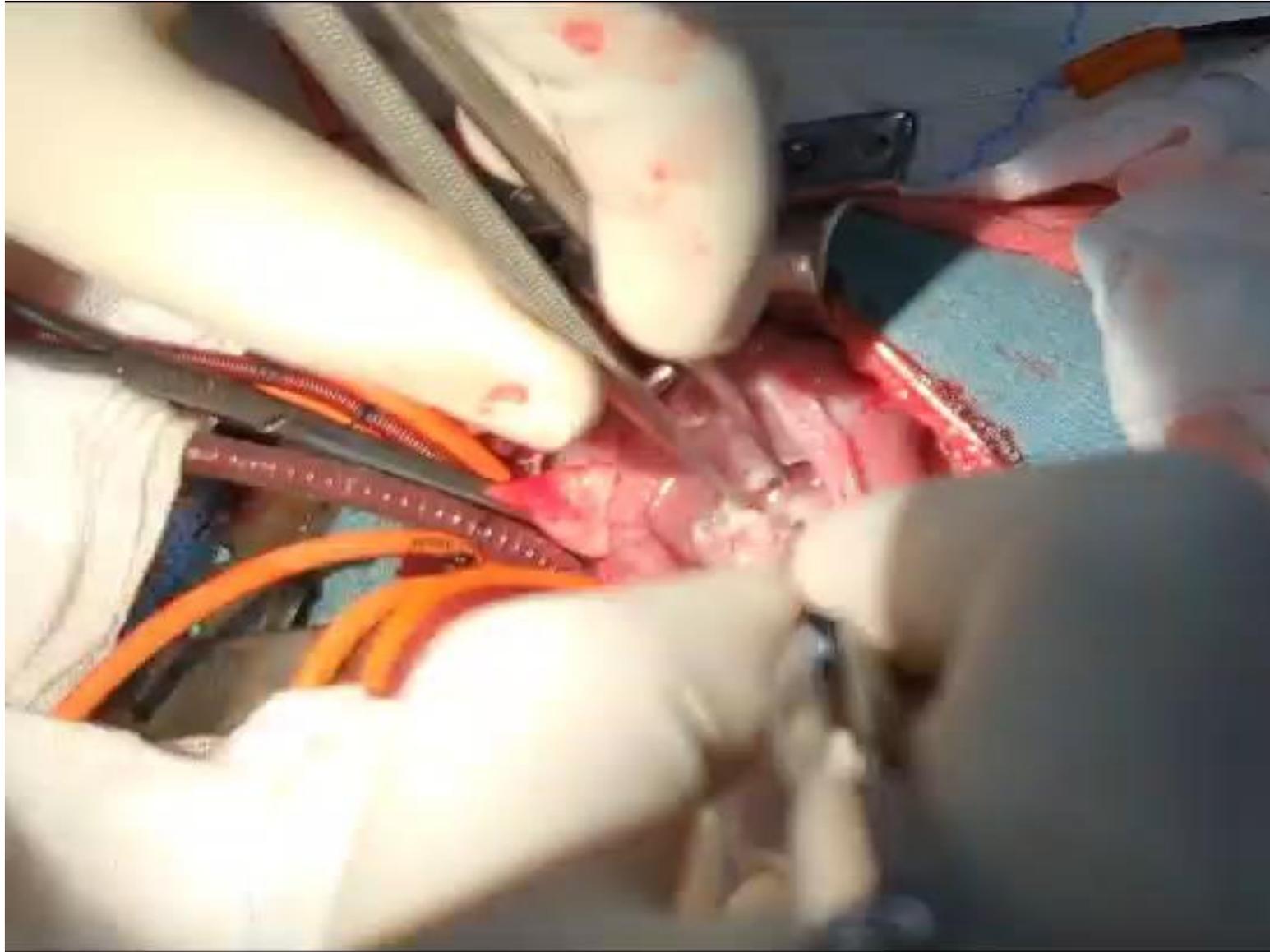


CAVCD with Double orifice mitral component

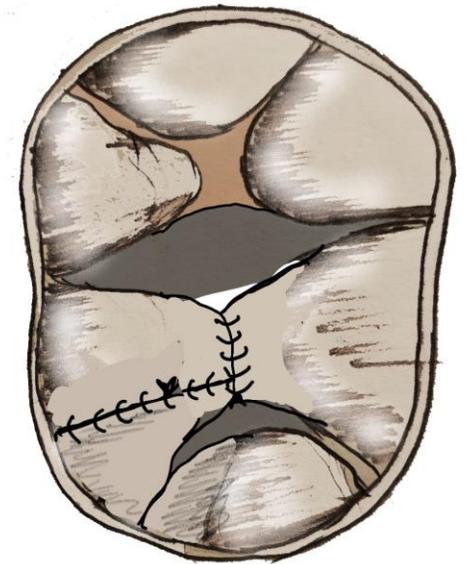
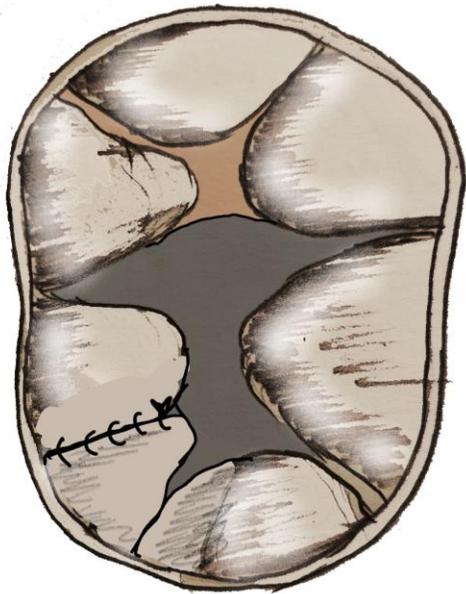
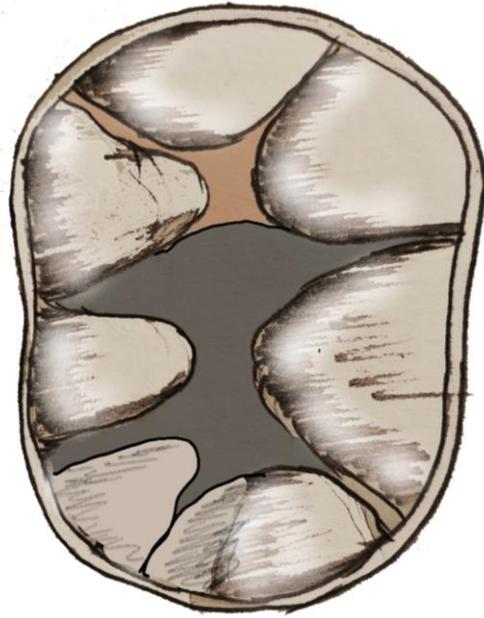


Partial cleft closure with papillary muscle splitting

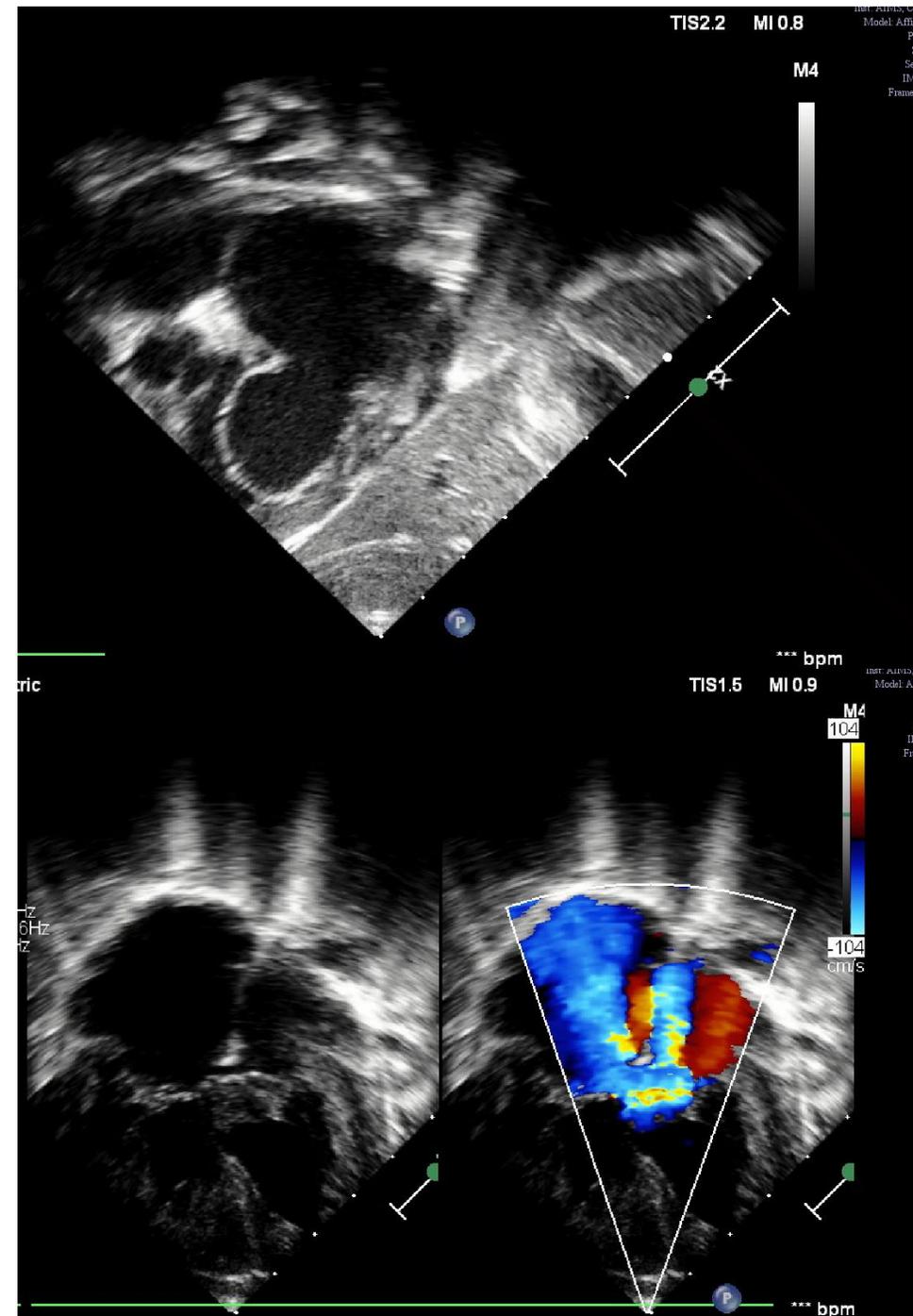
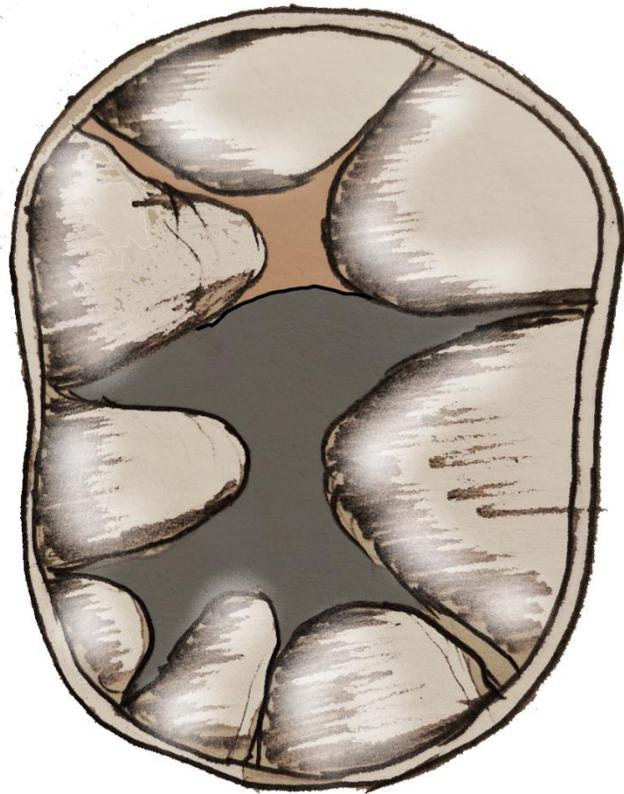
AVCD with multiple leaflet



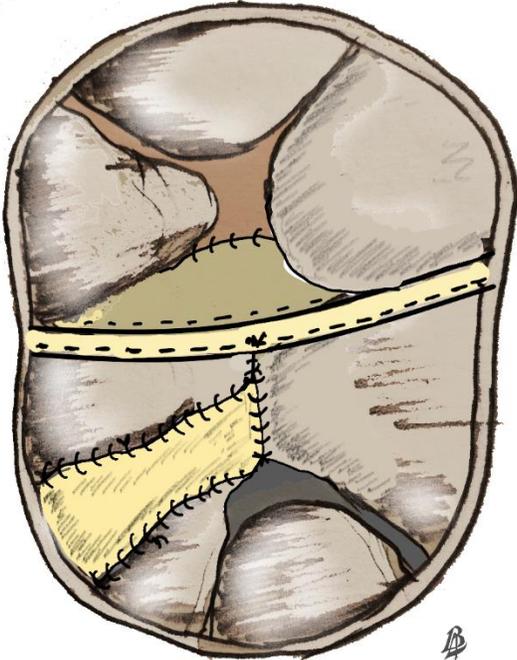
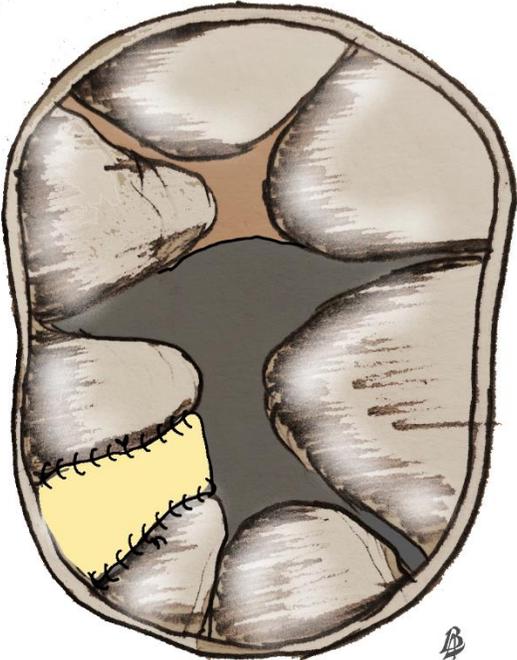
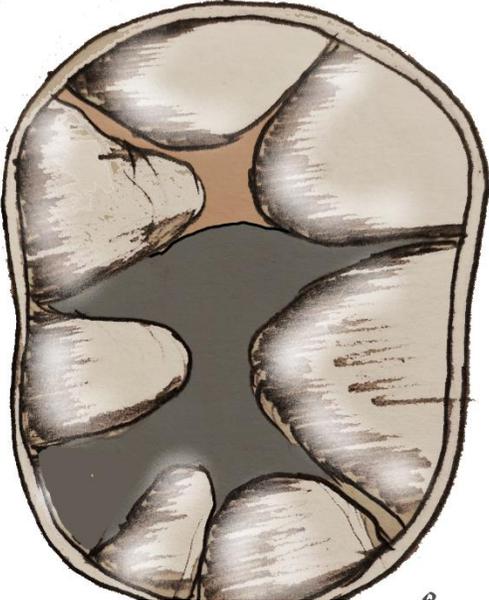
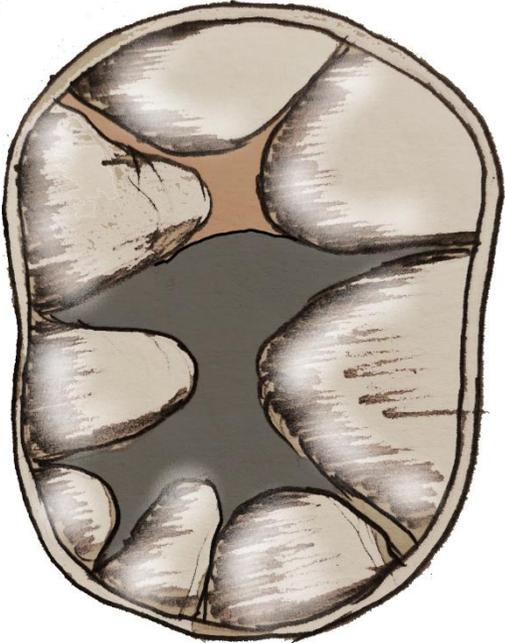
Leaflet Amalgamation



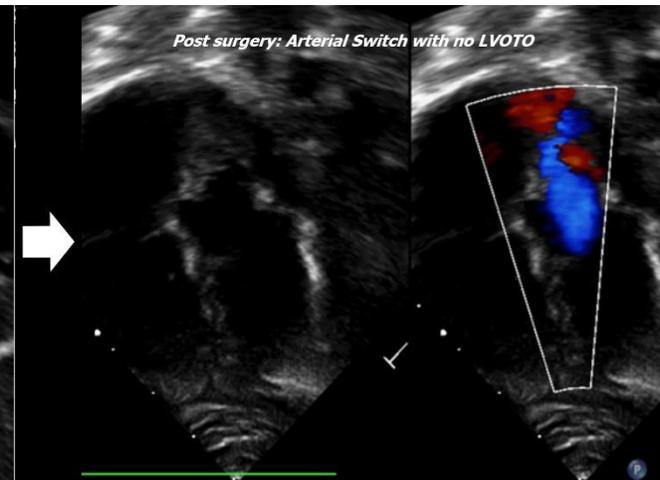
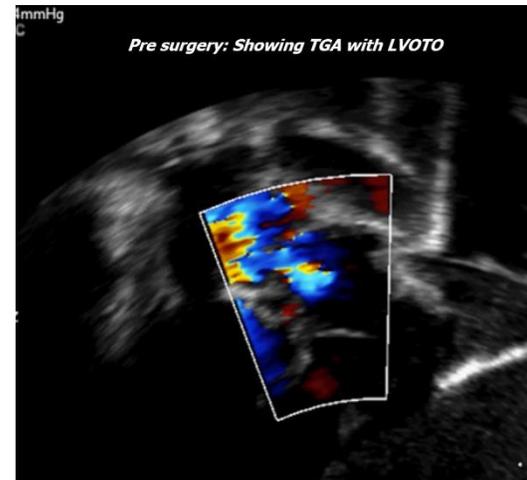
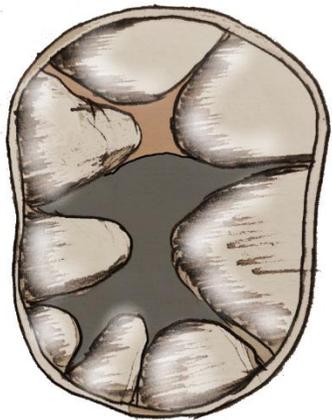
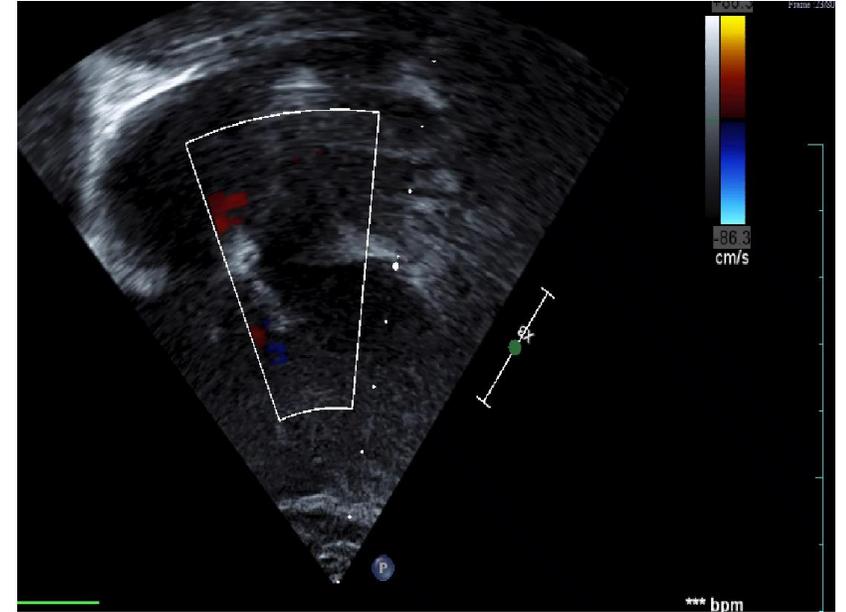
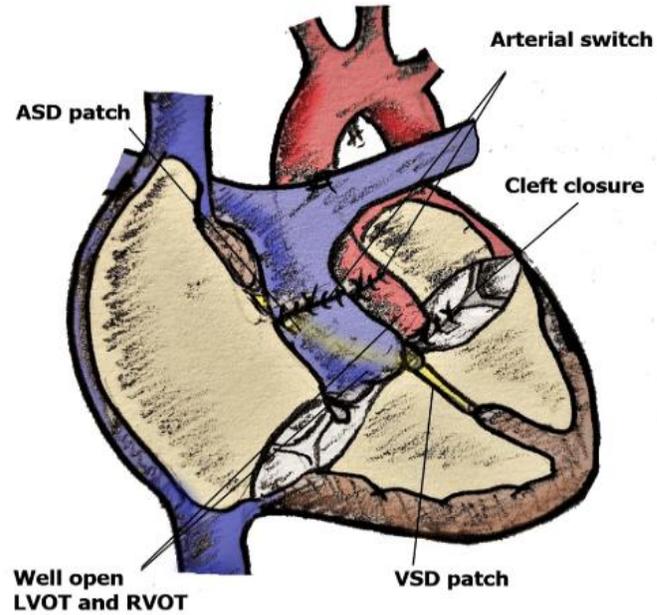
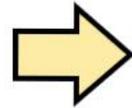
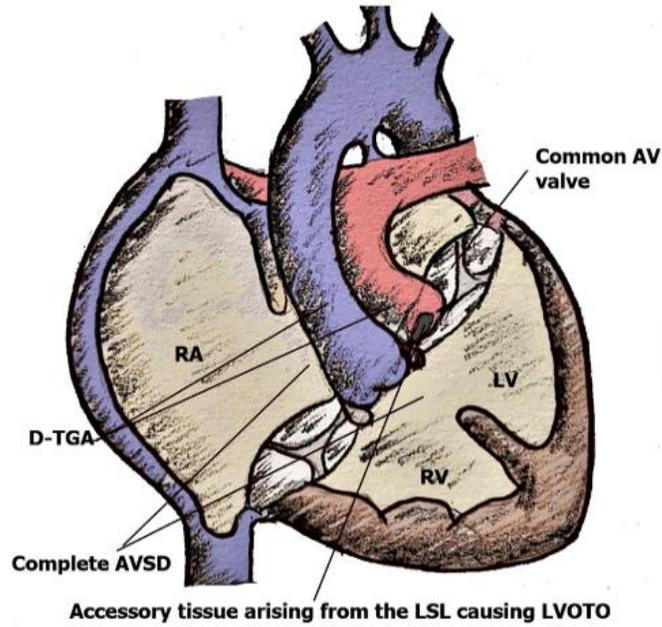
DORV, CAVCD, LVOTO



Leaflet supplementation



D-TGA, CAVCD, LVOTO



Results

- Complex leaflet orientation is seen with CAVCD with associated other cardiac defects and in Non downs
- Median follow up – 42 months
- In hospital mortality :-
 - Simple CAVCD 2 significant tracheomalacia
 - Complex CAVCD Nil
- Late mortality :- 2 { Simple CAVCD }

Results

- Complex CAVCD
 - Moderate MR { 1 }
 - Mild MR { 7 }
 - No MR { 6 }

- Moderate MR was seen with partial cleft closure

Conclusion

- *Systematic and tailored surgical approach depending on anatomy of complex leaflet arrangement in common atrioventricular defect can give gratifying results*