

**P88. Does Aortic Cusp Repair Influence The Outcome Of Valve Sparing Aortic Root Replacement?**

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**OBJECTIVES:** Outcome of the patients who underwent aortic root replacement with valve sparing procedure concomitant cusp repair was evaluated.

**METHODS:** Between October 1999 and February 2009, valve sparing aortic root replacement were performed in 62 patients. Isolated valve sparing procedure was performed in 38 patients (control) and concomitant cusp repair was performed 24 in patients (AVP). Cusp prolapse was corrected by placcation of Arantius body (n =13), cusp perforations were closed by pericardial patch (n=6) or reinforcement of freemargin (n=6).

**RESULTS:** No patient died during the hospital stay and no thromboembolic events occurred in the follow up. Pre-operative grade of aortic insufficiency was  $3.0 \pm 0.9$  in AVP group vs.  $2.5 \pm 1.3$  in control (ns). There was no significant difference between both groups regarding age, cardiac function and preoperative aortic root diameter. However, eccentric jet by preoperative TEE was more often in group AVP than in control ( $P < 0.01$ ). Five patients underwent reoperation because of recurrent AR or hemolysis. Postoperative AR grade were similar in both groups ( $0.9 \pm 0.5$  vs  $0.5 \pm 0.6$ ). ?During follow up, the 5 year freedom form re-operation (AVR) was  $85.1 \pm 8.2\%$  in AVP and  $94.0 \pm 4.1\%$  in control (ns). 5 years survival was 100% and  $95.0 \pm 4.9\%$ (ns), respectively.

**CONCLUSIONS:** In conclusions, valve sparing aortic root replacement with concomitant cusp repair provides satisfactory midterm result.