

## 1: Tirone E. David | Revolv

*Aortic valve sparing operations have now been performed for over two decades in our institution (). There are basically 2 types of aortic valve sparing operations: reimplantation of the aortic valve and remodeling of the aortic root (2,3).*

Full table Results There were 5 deaths within the first 90 days 4 patients had reimplantation and 1 had remodeling. There were 32 late deaths 18 had reimplantation and 14 had remodeling. The overall survival at 10, 15 and 20 years was Figure 1 shows the survival estimates following reimplantation and remodeling procedures. Age by increments of 5 years was the only predictor of mortality from any cause. Survival after reimplantation and remodeling procedures Three patients developed infective endocarditis: The patient with aortic valve endocarditis developed an aortic root abscess and was treated with antibiotics and aortic root replacement with an aortic homograft. One patient with mitral valve endocarditis was successfully treated with antibiotics alone and the other also required mitral valve repair because of severe mitral regurgitation. All 3 patients survived. Including perioperative events 14 patients suffered thromboembolic complications: Twenty-nine patients were taking oral anticoagulation at the last follow-up contact because of previous thromboembolic complications or atrial fibrillation. Four patients suffered major hemorrhagic complications, but none was fatal. Seven patients have undergone reoperation on the aortic valve, 3 in the reimplantation and 4 in the remodeling group. The aortic valve was re-repaired in one and replaced in 6. The indication for surgery was aortic insufficiency in 6 and endocarditis in 1. The overall freedom from reoperation in the aortic valve at 10, 15 and 20 years were Figure 2 shows the estimates of freedom from reoperation in the aortic valve after reimplantation and remodeling procedures. Freedom from reoperation on the aortic valve after aortic valve sparing operations; B. Freedom from reoperation after reimplantation and remodeling procedures Thirteen patients developed moderate aortic insufficiency AI and 6 developed severe AI during follow-up. Five of these 19 patients had bicuspid aortic valve disease. The freedom from moderate or severe AI in all patients and after reimplantation and remodeling procedures is shown in Table 3. Remodeling of the aortic root was associated with a higher risk of AI than reimplantation of the aortic valve but the difference did not reach statistical significance by log rank analysis. Age by increments of 5 years, bicuspid aortic valve and hypertension were associated with increased risk of developing moderate or severe AI by univariate analysis but only age by 5 years increments was an independent predictor of AI. Marfan syndrome, moderate or severe AI before surgery, cusp plication and cusp reinforcement with expanded polytetrafluoroethylene suture were not associated with increased risk of postoperative AI by univariate or multivariate analyses. Table 3 Freedom from moderate or severe aortic insufficiency.

## 2: Aortic valve sparing operations: outcomes at 20 years - David- Annals of Cardiothoracic Surgery

*The fear of aortic rupture or dissection expressed by the Wall Street Journal writer is common among patients diagnosed with aneurysms, 1 x 1 Helliker, K. A time bomb near my heart.*

## 3: Cardiovascular Valve Symposium

*Dr. David proposed a technique for a valve-sparing treatment for aortic insufficiency, due to dilatation of Valsalva sinuses. Dr. David's current research interests are centered on clinical outcomes of surgical treatment of aortic and mitral valve diseases, aortic root aneurysm, and connective disorders of the heart and great vessels.*

## 4: Valve-sparing aortic root replacement - Wikipedia

*Hancock II Bioprosthesis for Aortic Valve Replacement: The Gold Standard of Bioprosthetic Valves Durability? Tirone E. David, MD, Susan Armstrong, MS, and Manjula Maganti, MS.*

## 5: Tirone E. David - Wikipedia

*Chapter Aortic Valve Repair and Aortic Valve-Sparing Operations by Tirone E. David in Cardiac Surgery in the Adult Honored with Antoine Marfan Award for innovative and outstanding contributions to the development of cardiovascular surgery and the surgical care of people with the Marfan syndrome.*

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