

P79. Preliminary Clinical Experience And Early Results With A New Semi-rigid Mitral Anuloplasty Ring: The Sorin Memo 3D

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OBJECTIVES: The Sorin MEMO 3D is a new complete semi-rigid anuloplasty ring. We reported its clinical use, clinical and echocardiographic results to evaluate safety and efficacy in treating mitral regurgitation.

METHODS: We assessed the performance of this new device in 63 patients (63,5% male; mean age, 70,2 ± 10,3 years) who were operated on for mitral valve regurgitation between January 2007 and June 2008. Functional classification was normal leaflet motion (type I) in 1,6% of patients, leaflet prolapse (type II) in 66,7% of patients, and restricted leaflet motion (type III) in 31,7%. Valve disease was degenerative in 68,3%, ischemic in 25,4% and non ischemic dilated cardiomyopathy in 6.3%.

RESULTS: Early post-operative mortality (≤ 30 days) was 3,3% (2 patients). Late mortality (follow-up 11,2 ± 5,1 months) was 4,9% (3 patients), none of the deaths was device related. Freedom from thromboembolism was 96.7%, freedom from endocarditis was 98.4%, freedom from reoperation was 98.4%. Echocardiographic evaluations at 6 months showed MR to be grade 0/1 in 93.7% and grade 2+ in 6.4%. Left ventricular diameters and Pulmonary Arterial Pressure decreased significantly. LVEF increased significantly. 81% of patients were in NYHA class I, 14% were in NYHA class II.

CONCLUSIONS: These early results show that the Sorin Memo 3 D ring is a safe and effective device minimizing mitral regurgitation secondary to all causes. This device preserves mitral annular flexibility and function at 6 months follow-up.