

P38. Homograft Replacement Of The Mitral Valve: Eight Year Results

Aldo Giovannelli; Andrea Perrotti; Francesco Nappi; Cristophe Acar; Alain Pavie; Iradj Gandjibakhch
La Pitiè Salpetriere Hospital, Paris, France

OBJECTIVES: Objective of this study was to assess whether the mitral homograft represents a valuable alternative for complete or partial mitral valve replacement

METHODS: Since 1993, 104 patients underwent mitral homograft replacement surgery. Aetiology of mitral valve disease was: rheumatic disease (76), infective endocarditis (24), others (4). All patients had an anatomical contraindication for valve repair. 24 patients had undergone previous mitral valve surgery (21 valve repairs, 3 valve replacements). 65 of these procedures were total homografts while 39 were partial homografts: hemivalve replacements centred on a commissure (29), anterior leaflet reconstruction with homograft patching (10)

RESULTS: Mean follow up was 52+35 months. Overall peri-operative mortality was 4 (3.8%) and was 2.5% versus 8.7% for non-endocarditis and endocarditis patients respectively ($p < 0.19$). 9 late deaths (cardiac: 4). 5 early (<3 months) and 10 late reoperations. Of the remaining 77 patients, 4 patients suffered endocarditis. Reoperation free survival was 71.6% at 8 years (partial: 81% vs total 63% $p < 0.19$). Among patients with a total homograft, reoperation free survival was 61.9% and 85.8% in patients below and above 40 years of age respectively ($p = 0.09$). Echography showed: no or grade 1 MI (60), grade 2 (9) and grade 3 (2). 5 patients had mild mitral stenosis with a valve surface below 1.5 cm² and 66 patients had no stenosis. The mean gradient across the valve was 5.6 + 2.4 mmHg and a mean surface area of 1.7 + 0.4 cm²

CONCLUSIONS: The partial homograft technique significantly enhances the possibilities of valve repair and offers good durability. The mitral homograft carries a risk of early failure, however overall eight year results are comparable to those of bioprostheses in the same age group.