43 Long term results of annuloplasty for mitral regurgitation

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A series of 50 patients submitted to simple annuloplasty, without prosthetic rings, for mitral regurgitation (MR), from 1974 to 1984 was evaluated at late follow-up (min=5, max=15, m=8.4 years). Age range: 3.3 to 51 (m=26.7) years. Female sex=31, male=19. Etiology: rheumatic=84%, congenital=8%, mixoid=8%. Pre-op. functional class (NYHA): II=4%, III=52%, IV=44%.

Late mortality was 16% (8 cases): sudden (1), MR after acute carditis (1), late valve failure (1), endocarditis (2),

myocardial failure (2), unknown (1).

Residual late systolic murmur was present in 56% (28 cases), usually mild, and 24% (12) were reoperated at 1 to 10 (m=5.8) years p.o. Causes of reoperation: endocarditis, stenosis after carditis, aortic prosthesis failure and leaflet retraction (late MR).

At late evaluation, 82% were in class I or II, 12% in III and 6% in IV. Actuarial survival rate was $85\pm6\%$ at 7 years and $76\pm7\%$ at 15 years. Survival without reoperation was $71\pm7\%$ at 7 years and $45\pm8\%$ at 15 years p.o.

Simple mitral annuloplasty for MR in a young population, predominantly of female sex seems to be an efficient procedure to be considered as the preferential alternative in selected cases.

Therapy of post-transplantation tricuspid-valve insufficiency through annulus stabilisation

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Temporary right-heart insufficiency following orthotopic cardiac transplantation (Htx) is not seldom.

Tricuspid insufficiency (TI) is even in late follow-up not a rare complication. Htx has been carried out in Hamburg throughout the years till the end of 1989.

Out of the 25 patients still alive, only 5 have not developed TI. Ten patients have developed TI of grade II or

more

The type of myocardial protection, periods of ischemia or parameters of the donor do not play any role in he development of this insufficiency. The underlying factor in this development of postoperative insufficiency is possibly the shift in the axis of the plane of the tricuspid valve.

To avoid this complication the tricuspid annulus was stabilised with the Duran ring during the process of the

transplantation in our last 5 patients.

None of these patients developed TI, even in the late follow-up phase. In view of the fact that the implantation of Duran ring is an easy and a less time-consuming procedure, we urgently recommend this method as a measure to prevent post-transplantation tricuspid insufficiency.

45 Surgical treatment of acute aortic dissection with ringed intraluminal graft

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During the past 14 years, 135 patients with aortic dissection were treated medically and/or surgically at Tokal University Hospital. Ninety-eight dissections were categorized as acute (less than 2 weeks of onset) and 37 were chronic. Fifty-four dissections originated in the ascending aorta (DeBakey type 1, 2), and 81 involved the descending aorta (type 3).

Until 1983 when we preferred antihypertensive treament, the hospital mortality of acute type 1 dissections with medical treatment was 70% (7/10). The high mortality in early hours after the onset of aortic dissection was mainly due to cardiac tamponade, cerebral branch

struction or coronary occlusion.

After clinical application of the ringed intraluminal grace (RIG) vascular prostheses in 1984, emergent surgice procedure under cardiopulmonary bypass was performed at first in all cases of the acute type 1, 2 dissections which the site of entry and the active residual channel could be confirmed by cineangiography or CT scanning

Twenty of 25 acute type 1, 2 dissections underwent Ricoperation and the operative mortality decreased to 25 (5/20). The result of surgical treatment has improved significantly compared with that of the early period before the adoption of RIG operation.

Now, we are extending the indication for surgical treament with RIG in the cases of acute type 3 dissection, to

46 Percutaneous transluminal retriever of foreign body intrapulmonary artery

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There were eighteen cases suffering from intravasclar foreign body in past 10 years. They were siliconcatheter of IVH except only one case with atrio-cerebraventricular shunt catheter. There were located in the sperior vena cava or right atrium in fourteen cases and

the pulmonary artery in the four cases.

Foreign body was removed by way of the right femovein puncture approach. The shunt catheter without ray positive marker except only 1 cm of the top of it was located in the right pulmonary artery, was involved and pulled out into the right atrium by the pigtail type ventricular angiography catheter and removed by biliary stone removal basket forceps. The other forebodies which were located in the main pulmonary arter were removed by hand-made loop snare in one case by the cardiac biopsy forceps in two cases.

Removal of the foreign body intrapulmonary artery percutaneous transluminal method is difficult concern to snare them. By using many kinds of catheters and

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