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Intermediate results of the anatomic repair for congenitally corrected transposition

Chiemmongkoltip P.
Ilbawi MN, Ocampo CB,
Allen BS, Barth MJ,
Roberson DA, and Arcilla RA.
University of IIIiniois at Chicago
The Heart Institute for Children
Hope Children's Hospital
Oak Lawn, IIIinois

To evaluate the intermediate results of anatomic repair of congenitally corrected transposition of the great arteries, the data on 12 pts who underwent the procedure between 1/89 and 6/00 were retrospectively reviewed. Associated lesions were ventricular septal defect (VSD) in 12 pts, pulmonary stenosis in 10 pts, and moderate to severe tricuspid valve regurgitation (TVR) in 4 pts. Age at operation ranged between 6-14 mos mean (9+3.6). All patients underwent venous switch Mustard procedure. Tunneling of the morphologic left ventricle (LV) through the VSD to the aorta with insertion of right ventricular to pulmonary artery (RV-PA) conduit was performed in 10 pts, and arterial switch operation in two. Concomitant tricuspid valvuloplasty was done in 2 patients and VSD enlargement in one. There was one hospital death (9 %) in a patient who needed VSD enlargement. Complications included AV block requiring pacemaker insertion in 1 patient (9 %), and superior vena caval obstruction in 1 patient (9%). Clinical and echocardiographic followup is available on all patients 0.5-10 yrs (mean 7.6 ± 3.1 yrs). All patients are asymptomatic. Exercise test on the three oldest patients was normal. Bradytachyarrhythmias developed in 4 pts (36 %) and required pacemaker insertion in 1. Mild-moderate TVR persisted in 2 patients. Systemic LV fractional shortening was 36-47 % (mean $39 \pm 4.6 \%$), and ejection fraction 49-70 % (mean $60.8 \pm 7.9 \%$). The double switch operation can be performed safely with minimal intermediate/long term complications. It provides the patient with excellent systemic ventricular function.