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Fontan in older age group; results from pakistan

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Introduction: Pakistan has a prevalence of 50,000 children born with CHD (coronary artery disease) per year. untreated single ventricle carries a poor prognosis. The Fontan procedure creates a direct connection between the vena cava and the pulmonary arteries. The median age surgery for the Fontan procedure in developed centers is 1.5–4 years.

Objectives: This study assesses the outcome of the Fontan operation at the Aga Khan University (AKU) and compares to the international literature.

Methodology: This is a retrospective case series of Fontan procedures performed at the AKU, between October 2014 and September 2018. The data is analyzed using SPSS version 20.

Results: Of the 24 patients 18 (75%) were males. Mean age at operation was 8.5 years (2.5-21 years). 8 underwent multistage palliation (stage I and II), 12 had prior Glenn shunt and 4 had primary single stage Fontan. RHC data; PVR of 1.2 woods unit, mean PA pressures 13 mmHg and an LVEDP 10 mmHg. All patients were in sinus rhythm. Mean bypass time was 147 minutes, Aortic cross clamp time (7 patients) 30 minutes and the mean operation time was 5 hours. Fenestration was performed in 18 patients. There was prolonged drainage of pleural effusions in 75% of the patients. Mean pre-operative oxygen saturations increased from 73% to 83% post-operatively. Operative mortality was 0%.

Conclusions: The median age of our patients is significantly higher (7.5 years). Nearly 80% had graft fenestration and with a higher ventilation and ICU duration. Despite these differences our results show that the Fontan procedure is performed safely at the Aga Khan University Hospital.

Biography

Muneer Amanullah has done his FRCS in the field of General Surgery at Edinburgh (UK). He was a Fellow Researcher in the Department of Congenital and Pediatric Cardiac Surgery in UK London. Currently, he is an Interim Associate Dean and also an Associate Professor for Congenital and Pediatric Cardiothoracic Surgery at Aga Khan University, Pakistan.

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