

15th World Cardiac Surgery & Angiology Conference

December 08-09, 2016 Philadelphia, USA

Reconstructive surgery of hypoplasia of the aortic arch

Elnur Hasanov

Scientific Center of Surgery, Azerbaijan

Aim: Aim of this study is to evaluate the function of baroreceptors in patients after different types of surgical correction of hypo-plastic aortic arch.

Materials & Methods: In this prospective cohort study evaluated the results of surgical treatment of 54 patients who underwent surgical treatment for aortic coarctation. The patients were divided into two groups according to the method of correction of the defect: reconstruction with the use of a modified reverse plasty of LPA (group I, n=27) and reconstruction using the extended anastomosis (group II, n=27 patients).

Results: The postoperative period of observation was 25 (21-30) months. Spontaneous sensitivity of the baroreceptors differed between groups and was significantly higher in group II was 11.6 (10.5; 12.6) vs. 9.1 (8.2; 10.1) in group I, p=0.04. The velocity of pulse blood flow was also higher in group II 7.7 (5.8; 9) (m/s)-1 compared to 6.5 (5.4; 7.1) (m/s)-1 in group I and differed between groups P=0.04.

Conclusions: Reduced sensitivity of baroreceptors in patients after a modified reverse plastic of the left subclavian artery may be regarded as the method of choice in patients with coarctation and hypoplasia of the arch as a method of reducing the frequency of arterial hypertension in the late postoperative period.

Biography

Elnur Hasanov is the Head of Pediatric Cardiac Center in Scientific Center of Surgery named after M.A. Topchubashov, Azerbaijan. He holds a Master degree from Novosibirsk Research Institute of Circulation Path, Russia followed by a Post-graduation from Novosibirsk Research Institute of Circulation Path, Russia. He is extending his valuable service as a Cardiac Surgeon in Federal State Institution Academician E.N. Meshalkin Novosibirsk State Research Institute of Circulation Pathology Rusmedtechnology and has been a recipient of many award and grants.

elnur0707@gmail.com

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