

Aortic Root Surgery through Right Anterolateral Minithoracotomy: Initial Experience

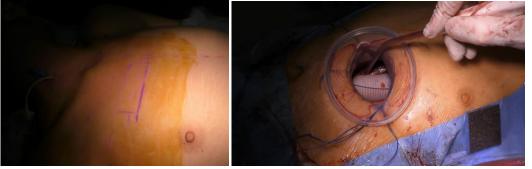
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Objective:

• The purpose of this study is to evaluate the immediate outcomes of aortic root surgeries performed using the right anterolateral mini-thoracotomy approach

Methods:



Selection Criteria	Contraindications
The ascending aorta at the level of the	Previous cardiac surgeries
pulmonary artery trunk is located to the right	
of the sternum by more than 50%	
The distance between the ascending aorta	Calcification of the ascending
and the sternum is less than 10 cm	aorta
The distance between the plane of the	History of pleuritis
annulus and the skin access is less than 16	
cm	
The angle between the median line and the	Stenotic pathology of the
axis of the aorta is more than 45 degrees	femoral arteries

	Valve-sparing (n=5)			Valve-replacing (n=2)		
Patient	Intervention	CPB Time (min)	Aortic Occlusion (min)	ICU (days)	Hospital Stay (days)	Complications
M 67	BioBentall de-bono + hemiarch	265	148	6	23	Left-sided pneumothorax
M 37	David	223	186	2	14	None
F 32	David	185	150	1	15	None
M 40	David	218	177	1	27	Small branch PTE; pneumonia
M 25	David	470	228	-	-	Death*
M 39	Bentall de-Bono	155	110	1	7	None
F 42	Commissuroplasty + Supracoronary prosthesis+hemiarch	154	80	1 *intraopera	20 ative right co	None pronary artery dissectio

Results:

thoracotomy can be safely and effectively performed

However, this approach requires a longer learning curve and preparation time for surgeons