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Giant aneurism of ascending thoracic aorta

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Giant ascending aorta aneurysms (AAA) with greatly enlarged aortic root, has rarely been reported. We present the case of a giant AAA of about 8,7 cm diameter in a 68-year-old man who was successfully operated on for ascending aorta and aortic root replacement under modified Bentall technique using composite mechanical conduit with coronary reimplantation

Giant ascending aorta aneurysm (AAA) is a rare condition, because of early diagnosis incidence appears to be increasing as a result of routine screening, increased clinical awareness and improved imaging modalities. Etiology of aneurysms involving the aortic root and ascending aorta can be genetically triggered, degenerative, or atherosclerotic, inflammatory, or can result from infection diseases. (1,2,3) According to many studies for ascending aortic aneurysms larger than 6 cm the risk of rupture, dissection, or deaths was 15.6, making it a large life threatening aneurysm. (4,5). About technique choosing for repairing of the aortic root, using the composite graft replacement, for patients in whom an aortic valve sparing root repair is not suitable, Modified Bentall (7) technique is the technique of choice, with excellent results. In this case, the aortic valve leaflets may be normal, but there is a loss of the Sino tubular junction because of the dilation of the aorta. This may lead to insufficient coaptation of the leaflets and therefore cause valve-regurgitation.

Preoperative assessment of patients requiring aortic root and ascending surgery generally includes a transthoracic echocardiography, and an angio CT-scan imaging to obtain all necessary information on the entire thoracic aorta. Proper description of the aortic dilation is necessary to optimally plan the procedure, especially the level of the distal anastomosis. In patients younger than 40 years angiography is not performed.

Biography

Andi Kacani has more than 17 years of experience as a cardiologist and is affiliated with Mother Teresa University Hospital Centre. Dr. Andi Kacani's passion is Cardiovascular surgery.

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