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**A giant right atrium aneurysm**

**Authors:**
M Hassan Abdelnabi¹, A Almaghraby², Y Saleh², O Abdelkarim², B Hammad², ¹Medical Research Institute, Alexandria University, Cardiology and Angiology Unit, Clinical and Experimental Internal Medicine Department - Alexandria - Egypt, ²Alexandria University, Department of Cardiology - Alexandria - Egypt,

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**Intro**

Giant right atrial aneurysm is an extremely rare cardiac condition that can be seen anytime in human life from childhood to elderly.

Many cases have no symptoms, others may develop arrhythmias such as atrial fibrillation, and sometimes thrombi may develop inside the right atrium with risk of pulmonary embolism as well as paradoxical embolism through a patent foramen ovale.

This condition can be caused by causes of cor-pulmonale, right ventricular disease, tricuspid valve diseases and -in extremely rare cases- if all these causes are excluded, it is considered idiopathic.

**Body Page**

A 62-year-old-male patient was referred for a pre-operative echocardiography before cataract surgery. He had a history of hypertension and chronic atrial fibrillation for which he was receiving digoxin and warfarin and he was totally asymptomatic.

Transthoracic echocardiography revealed a giant right atrial aneurysm that measures 160X140 mm in its dimensions with an estimated volume of 1450 ml, the giant right atrium was compressing the left atrium, left ventricle and the right pulmonary artery. The left ventricular systolic function was normal, the tricuspid valve was normal in morphology, the pulmonary valve and pulmonary artery were also normal in structure and dimensions.

Further multi-slice computed tomography (MSCT) confirmed the diagnosis.

As the patient was asymptomatic, the decision was to continue rate control of the atrial fibrillation and proper anti-coagulation.

**Conclusion**

Giant right atrial aneurysms are very rarely diagnosed, they may be asymptomatic or may present by arrhythmias.

Echocardiography is the main tool for the diagnosis and detection of the etiology of this condition.

Management usually depends on the patients’ symptoms as well as their clinical condition and it varies from conservative management to surgical resection.
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