A Huge Thrombus-Containing Pulmonary Artery Aneurysm

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Abstract
Pulmonary artery aneurysms are very rare entities that may be caused by several diseases. One of its causes is infection by Bilharziasis which is an endemic disease in Egypt. We report a case of a male patient presented by dyspnea and his chest x-ray showed a huge pulmonary artery as well as an atelectatic lung lobe. Final diagnosis was done using echocardiography that showed a huge pulmonary artery aneurysm containing a very large organized thrombus.

Keywords: Bilharziasis; Thrombosis; Pulmonary artery aneurysm

Introduction
Pulmonary artery aneurysms are very uncommon entities that may be caused by chest trauma, infections, and less commonly congenital or due to chronic pulmonary hypertension [1].

One of the infectious causes of pulmonary artery aneurysms is bilharzial or schistosomal infection, as Bilharziasis is endemic in our country Egypt, we are presenting a case of bilharzia-induced pulmonary artery aneurysm and thrombosis [2].

Case Report
A 55-year-old male patient presented to our facility complaining of dyspnea grade II and effort intolerance for several months. His medical history was unremarkable except for Bilharziasis since his childhood. On examination, he was hemodynamically stable and on auscultation accentuated P2 component of the second heart sound was heard with diastolic murmur over the pulmonary area indicating pulmonary regurgitation. His electrocardiogram showed sinus rhythm, right bundle branch block and right axis deviation. His chest X-ray showed a hugely dilated pulmonary artery as well as a large area of right lung wedge shaped infarction. Transthoracic echocardiography showed dilated right sided chambers with moderate tricuspid valve regurgitation showing a transvalvular peak systolic gradient of 57 mmHg. The pulmonary artery was hugely dilated measuring 120 mm in its maximal diameter and showing a huge thrombus measuring 83 mm x 47 mm in its maximal dimensions. Also, moderate pulmonary valve regurgitation was noted. The left ventricular systolic function was normal with a paradoxical septal motion coinciding with the right sided volume and pressure overload. Patient was put on anticoagulation in the form of Warfarin 4 mg for 2 months and he is showing improvement of his symptoms on follow-up, but the thrombus is still present.

Discussion
Pulmonary artery aneurysms (PAA) are rare and infrequently diagnosed and the ideal treatment of PAA remains uncertain because there are no clear guidelines for the best therapeutic approach, due to limited experience because of the rarity of the disease.

In our case, the most probable etiology is the bilharzial infection where the schistosomal eggs are frequently embolized through the hepatic vein to the inferior vena cava then to the pulmonary arteries where they produce a type of chronic granulomatous inflammation that later on causes the pulmonary hypertension and the pulmonary artery aneurysm [2] (Figures 1A-1D).

Still the management of pulmonary artery thrombus is only through proper anticoagulation and follow-up with very limited role for surgery [2].

Conclusion
Though very rare, Bilharziasis should still be considered as one of the causes of pulmonary artery aneurysms and core-pulmonale especially in endemic areas.

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Received November 07, 2017; Accepted November 17, 2017; Published November 20, 2017

doi: 10.4172/2329-9517.1000298

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