



Multiple Congenital Peripheral Pulmonary Artery Stenoses

Konjenital Multipl Periferel Pulmoner Arter Darlığı

Hasan Güngör, Cemil Zencir, Sevil Önay

Adnan Menderes University Faculty of Medicine, Department of Cardiology, Aydın, Turkey

A 22-year-old male patient with a previous history of surgery for supra-valvular aortic stenosis in childhood was referred to our unit with a diagnosis of pulmonary hypertension for further assessment. Transthoracic echocardiography showed the presence of right ventricular dilatation, moderate tricuspid regurgitation and systolic arterial pressure of 70 mmHg. Right heart catheterization revealed a mean pulmonary artery pressure of 50 mmHg. Magnetic resonance angiography imaging showed bilateral multiple severe stenoses of the peripheral pulmonary artery (Figure 1). A diagnosis of pulmonary hypertension due to multiple peripheral pulmonary artery branch stenosis was made. Based on the previous history of surgery for supra-valvular aortic stenosis, the case was deemed to have a congenital condition.

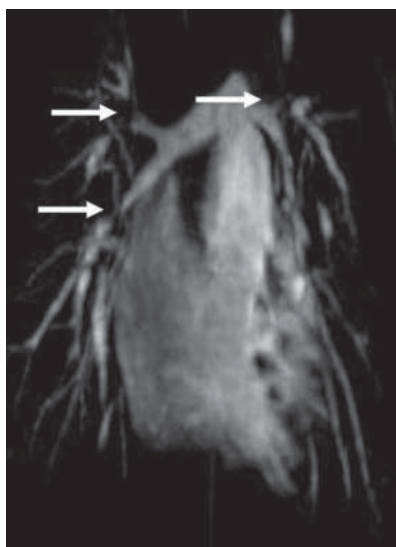


Figure 1. Bilateral multiple severe stenoses of the peripheral pulmonary artery (Arrows).

Peripheral pulmonary artery stenosis is defined as an obstruction of the pulmonary artery from the pulmonary trunk to the peripheral artery, and was first reported by Oppenheimer in 1938⁽¹⁾. Peripheral pulmonary artery stenosis has been a disease with limited treatment options. In contrast with our case, most congenital pulmonary artery stenoses are located in the main or proximal segmental pulmonary artery branches, and therefore surgery or balloon angioplasty may represent the treatment modalities of choice⁽²⁾.

REFERENCES

1. Oppenheimer EH. Partial atresia of main branches of pulmonary artery occurring in infancy and accompanied by calcification of pulmonary artery and aorta. Bull Johns Hopkins Hosp 1938;63:261.
2. Kreutzer J, Landzberg MJ, Preminger TJ, Mandell VS, Treves ST, Reid LM, et al. Isolated peripheral pulmonary stenoses in the adult. Circulation 1996;93:1417-23.

Correspondence

Hasan Güngör

E-mail: drgungorhasan@yahoo.com

Submitted: 05.10.2013

Accepted: 07.11.2013

@ Copyright 2015 by Koşuyolu Heart Journal.
Available on-line at
www.kosuyoluheartjournal.com