

**Pulmonary arteriovenous malformation embolization with occluder device.**

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Objectives: to present the case of embolization of the pulmonary arteriovenous malformation (PAVM) with occluder device.

Methods: A 13-years-old boy was admitted with tachypnea, mild cyanosis during physical activity. He underwent chest X-ray that shown nonhomogeneous shadow in the right lung (fig. A, B). CT scan revealed a large PAVM (35x28 mm) in the middle lobe of the right lung (fig. C, D) and patient was admitted to the cath lab (fig. E). Amplatzer vascular plug II 10 mm was placed 7 mm proximally to the aneurysm and distally to the pulmonary arteries. Embolization of PAVM was successfully performed without residual shunt (fig. F).

Results: Postoperative period was uneventful and patient was discharged on the 2nd postoperative day without any clinical signs. He was admitted after 3 months for examination. Boy was presented in the good state without symptoms, the right ventricular pressure was not elevated according to transthoracic echocardiography.

Conclusions: endovascular method of PAVM closure with occluder device is a safe and effective procedure. Amplatzer vascular plug has shown a good result of embolization.



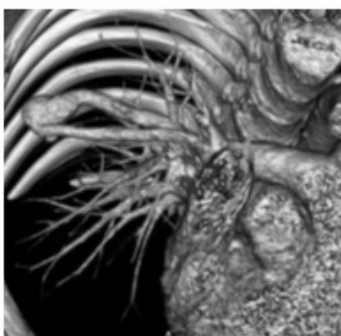
A) Frontal X-ray



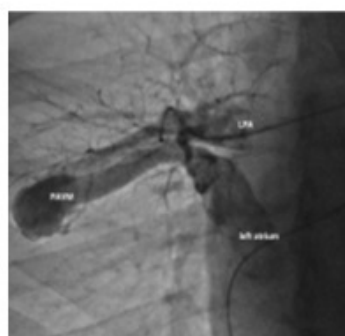
B) lateral chest



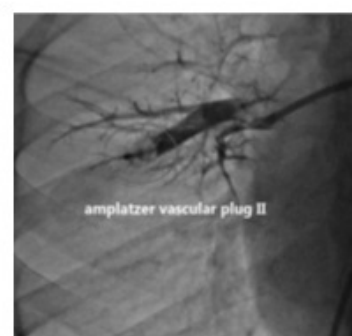
C) CT native image



D) 3D reconstruction CT image



E) Angiogram showing large, single PAVM in the right lobe with a single artery.



F) Final angiography after device placement showing complete occlusion of PAVM.