



Hitherto Unreported Pattern of Complex Obstructive Partial Anomalous Pulmonary Venous Drainage with Dual Drainage of Accessory Pulmonary Veins

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Indian J Radiol Imaging

Abstract

Keywords

- ▶ accessory pulmonary veins
- ▶ PAPVC
- ▶ dual drainage
- ▶ obstructive partial anomalous pulmonary venous drainage
- ▶ partial anomalous pulmonary venous drainage

Partial anomalous pulmonary venous drainage is a congenital cardiac disorder characterized by abnormal drainage of one or more pulmonary veins into the systemic circulation. It can be isolated or associated with other congenital cardiac anomalies, most commonly atrial septal defect and patent ductus arteriosus. The clinical presentation is variable and depends on the degree of shunting and associated cardiac anomalies. Many patients usually remain asymptomatic until late in life. In this article, we presented a complex case of obstructive partial anomalous pulmonary venous drainage with dual drainage of bilateral accessory pulmonary veins with intact interatrial septum in conjunction with a patent ductus arteriosus and a ventricular septal defect. This pattern is incredibly rare and to the best of our knowledge has not been previously reported. Computed tomography played a pivotal role in precisely elucidating the intricate anatomy in this case with a complex pattern of anomalous pulmonary venous drainage.

Introduction

Partial anomalous pulmonary venous connection (PAPVC) is a congenital cardiac anomaly characterized by the abnormal drainage of one or more pulmonary veins into the systemic venous circulation, likely due to the incomplete involution of primitive pulmonary venous connections.¹ The most common anomalous patterns are isolated drainage of the right superior pulmonary vein (RSPV) into the superior vena cava

(SVC) or right atrium (RA) and left superior pulmonary vein (LSPV) draining into the innominate vein or the coronary sinus.^{2,3} Patients with PAPVC are usually asymptomatic and can be incidentally detected. The severity of symptoms depends on the degree of shunting and coexistent cardiac defects. It is associated with atrial septal defect (ASD) in 90% of cases.⁴ Obstruction to the anomalous connection can result in elevated venous pressures, subsequently leading to pulmonary edema and respiratory distress. Obstruction is more commonly seen in infracardiac total anomalous pulmonary venous connection (TAPVC) cases and is rarely reported in supra cardiac PAPVC.⁵ In this article, we

* Both share the co-first authorship.

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