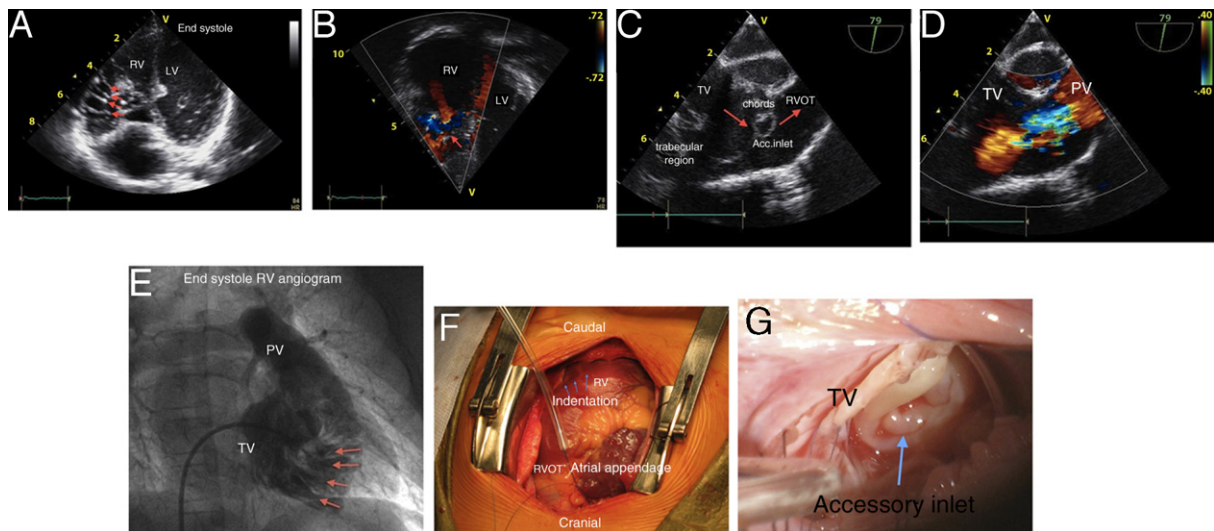


IMAGES IN CARDIOLOGY

An Unusual Case of Cyanosis in Right Ventricular Dysplasia in a Child

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A 6-year-old girl was seen for cardiac murmur, exercise intolerance, and oxygen desaturation with moderate exercise. Transthoracic (**A and B, red arrows**; Online Video 1) and transesophageal echocardiography (TEE) with color Doppler (**C and D, arrows indicate blood flow**; Online Videos 2 and 3) demonstrated excessive trabeculations, fibrous chords, and muscle bundles creating a circular accessory inlet with flow acceleration in a double-chamber right ventricle (RV). There was bidirectional shunting across a patent foramen ovale. Cardiac catheterization with angiography (**E, red arrows**) recorded a pressure gradient of 20 mm Hg across the accessory inlet and confirmed the findings. Intraoperatively, there was an indentation on the external surface of the RV (**F, arrows**) caused by traction from the thick fibromuscular accessory inlet (**G, arrow**). Post-operative TEE showed a complete resection of the accessory tissue (Online Video 4). This case demonstrated right-to-left shunting across the atrial septum during exercise in a dysplastic right ventricular myocardium. LV = left ventricle; PV = pulmonary vein; RVOT = right ventricular outflow tract; TV = tricuspid valve.