

Treatment of a Recurrent Renal Artery Stenosis and Stent Fracture Using a Drug Eluting Stent in a Pediatric Patient

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Abstract

Renal arteries obstructions are not common in the pediatric population; reason why they are a great challenge for their diagnosis and treatment for the clinician when they present. The case of an 8 y/o female who presented with severe arterial hypertension is discussed. Initially, the patient was evaluated and up to 5 antihypertensive medications were started. After complete evaluation, she was found to have severe right renal artery's ostial and proximal stenosis. For these, she underwent recurrent angioplasties and then a bare metal stent (BMS) implantation, due to recurrence of the stenosis. Later the BMS developed a circumferential fracture, so, another stent was implanted. But the second stent used was a drug eluting stent (DES). Since the last intervention she has been stable for 8 years, although, on 2 antihypertensive medications. Renal artery stenosis is rare in the pediatric population. Angioplasty and surgery have been used to treat it. Stent implantation has been used more often in adults for its treatment, too. The use of BMS and DES may add another tool in the armamentarium of the pediatric interventionist to treat these children with recurrent stenosis that fail to angioplasty.

Biography:

Born in San Germán, Puerto Rico (USA). Doctorate degree from the San Juan Bautista School of Medicine, PR. Specialties in Internal Medicine & Pediatrics. Pediatric Cardiology fellowship and Sub-fellowship in Interventional Cardiology from the Children's Hospital of Michigan. Currently is the Director of Cardiology of the San Jorge Children's Hospital, and Associate Professor of Medicine and Pediatrics at the San Juan Bautista School of Medicine, PR, USA. Has published over 20 articles in peer review journals and many specialty opinions by editors'

request. His interests are in the areas of heart failure, structural heart diseases, and difficult venous accesses. Special interest in chronic total venous occlusions (CTVO).

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