A case of ostial stenosis with the PAS-Port proximal anastomosis system in off-pump coronary artery bypass grafting

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Abstract

The use of an automatic aortic connector device for proximal saphenous vein graft anastomoses eliminates the need for aortic clamping during off-pump coronary artery bypass grafting and may reduce the incidence of stroke in the elderly and in patients with severe aortic atherosclerosis. The PAS-Port proximal anastomotic system is a recently developed sutureless automatic saphenous vein graft anastomosis device. We used the system in thirteen patients. Overall handling, feasibility and safety of the device were satisfactory in our limited experience. However, one patient developed severe ostial and proximal graft stenosis in four months postoperative angiogram.

Keywords: Off-pump; Coronary artery bypass surgery; Device; Saphenous vein