

ABSTRACT NO. R22

INFREARENAL AND ILIAC ARTERY ANEURYSMORRHAPHY IN THE SETTING OF AN ECTOPIC KIDNEY

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Renal malformations during surgery for repair of abdominal and iliac artery aneurysms are uniquely rare and can create technical problems during the operation in terms of preservation and revascularization.

A 70 y/o African-American male was found to have a 6.6 cm maximal diameter infrarenal abdominal aortic aneurysm (AAA) on computer tomography angiography (CTA). This aneurysm was associated with tortuous proximal iliac arteries and a 3.4 cm aneurysm involving the right internal iliac artery. He had a large cystic right pelvic kidney with a right renal artery that arose from the distal aorta at the caudal aspect of the infrarenal aneurysm.

The patient underwent a AAA repair with a bifurcated graft, renal protection of the ectopic kidney and mobilization of the right pelvic kidney with reimplantation of the right renal artery using an interposition 6mm graft onto the aorto bi-iliac bifurcated graft.

Following the repair, the patient recovered well with no loss in renal function or complications. This case report explains how renal function can be preserved during these often difficult aortoiliac reconstructions.