

SHORT REPORT

# A New Surgical Approach for Exclusion of Renal Artery Aneurysms Avoiding Organ Ischemia

R. Trunfio, MD <sup>a</sup>, S. Demertzis, MD, PhD <sup>a,\*</sup>, J. Van den Berg, MD <sup>b</sup>,  
F. Siclari, MD, PhD <sup>a</sup>

<sup>a</sup> Department of Cardiac Surgery, Cardiocentro Ticino, Via Tesserete 48, 6900 Lugano, Switzerland

<sup>b</sup> Department of Radiology, EOC, Ospedale Civico Lugano, 6900 Lugano, Switzerland

Submitted 26 March 2008; accepted 14 June 2008

**Abstract Introduction:** Surgical treatment of renal artery aneurysms is inevitably associated with temporary renal artery occlusion and risk of ischemic injury. We present a technique for renal artery grafting and aneurysm exclusion without interrupting renal blood flow.

**Report:** A symptomatic renal artery aneurysm was bypassed with a venous graft between the abdominal aorta and the very distal renal artery utilizing a distal anastomotic device without interruption of renal blood flow. The aneurysm was then excluded by means of hemostatic clips.

**Conclusion:** The presented surgical technique offers the major advantage of avoiding organ ischemia and accelerating the surgical procedure.

<sup>a</sup> 2008 European Society for Vascular Surgery. Published by Elsevier Ltd. All rights reserved.