

Hybrid Treatment in Complex Vascular Reconstruction

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Techniques used for hybrid treatments, combining open surgery with endovascular procedures, were developed to treat complex cases of peripheral vascular disease. Images show the treatment outcome in a 66-year-old patient, hypertensive and ex-smoker, with a history of aortobifemoral replacement with Dacron patch due to Leriche syndrome 20 years before; he required left sequential iliofemoral prosthetic bypass due to obstruction of the left prosthetic iliac branch. In 2012, above the Dacron patch, an infra-

renal aortic aneurysm of 6.5 cm was diagnosed and treated with endovascular therapy. At 3-month follow up, the patient presented with obstruction of the right prosthetic iliac branch, which was resolved by angioplasty with iliac stent-graft plus a right iliofemoral “extra-anatomic” bypass through the obturator foramen with a polytetrafluoroethylene (PTFE) ringed prosthesis.

The 128-slice multidetector 3D CT angiography and the intraoperative angiography reveal the multiple hybrid coronary artery bypass grafting (Figures 1 and 2).

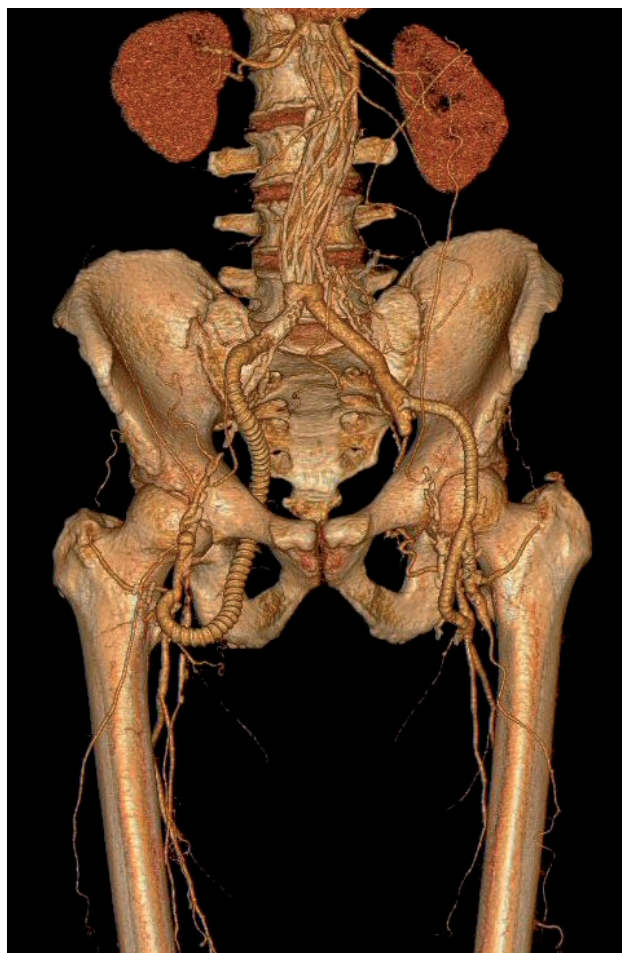


Fig. 1. CT angiography in patient undergoing hybrid therapy.

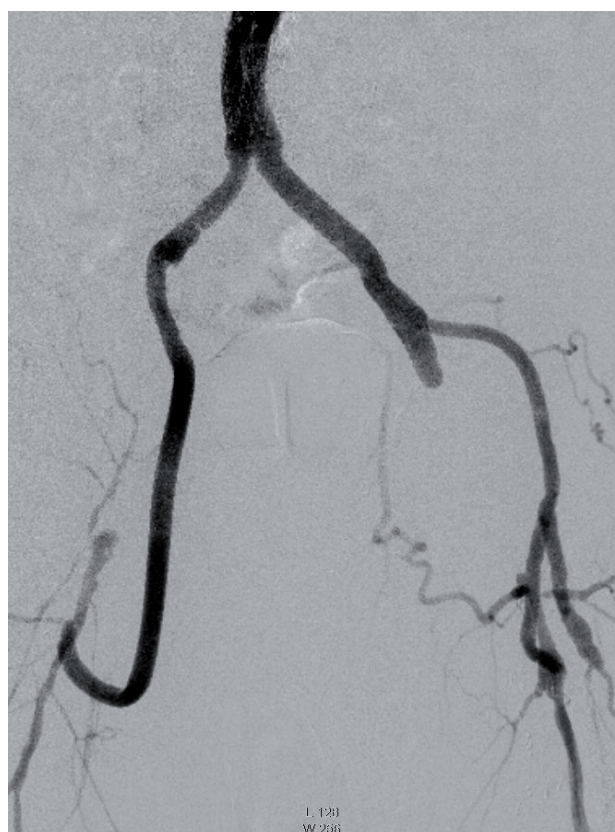


Fig. 2. Intraoperative digital angiography.