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 infrarenal 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 digital angiography reveal the multiple hybrid coronary artery bypass grafting (Figures 1 and 2).

Conflicts of interest
None declared.

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

Fig. 2. Intraoperative digital angiography.