

CASE REPORT

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# Endovascular repair with contralateral external-to-internal iliac artery bypass grafting: a case series

Yasuhiko Kobayashi<sup>1\*</sup>, Masayuki Sakaki<sup>1</sup>, Takashi Yasuoka<sup>1</sup>, Osamu Iida<sup>2</sup>, Tomoharu Dohi<sup>2</sup> and Masaaki Uematsu<sup>2</sup>

## Abstract

**Background:** To report a technique of keeping unilateral blood flow in the internal iliac artery in cases of an abdominal aortic aneurysm in achieving successful Endovascular abdominal aortic aneurysm repair using an external-to-internal artery bypass.

**Case presentation:** 6 Japanese patients with infra-renal abdominal aortic aneurysms were treated using the retroperitoneal approach via a left (right) paramedian incision followed by an external-to-internal artery bypass. Endovascular abdominal aortic aneurysm repair was conducted on mean postoperative day  $29 \pm 18$  and was performed because the contralateral internal iliac artery, which was not involved in the external-to-internal artery bypass, was treated with a coil embolization. No complications developed during the postoperative follow-up period ( $1.7 \pm 1.5$  months). In all 6 patients, patent grafts were evident on computed tomography angiography scans even after 1–3 months.

**Conclusions:** Endovascular abdominal aortic aneurysm repair with unilateral internal iliac artery embolization and contralateral external-to-internal artery bypass is feasible with a relatively low risk. It is a safe procedure and reduces the incidence of postoperative complications.

**Keywords:** Endovascular abdominal aortic aneurysm repair, Abdominal aortic aneurysm, Common iliac artery aneurysm, External-to-internal iliac artery bypass

## Background

Endovascular abdominal aortic aneurysm repair (EVAR) is an effective alternative therapy for abdominal aortic aneurysms (AAAs) in potentially high-risk patients such as the elderly, those requiring repeated open abdominal surgery, or those with various complications. However, in cases with a short common iliac artery (CIA) or insufficient landing zone, the stent-graft limb must be extended to the external iliac artery (EIA) for treatment. Various complications, such as buttock claudication (due to ischemia of the IIAs), impotence, and intestinal ischemia, arise [1–4] when blood flow to both internal iliac arteries (IIAs) is lost.

In this study, we report cases of 6 patients who underwent EVAR instead of abdominal surgery for the treatment

of AAA. EVAR was performed by maintaining unilateral blood flow in the IIA during external-to-internal artery (E-I) bypass.

## Case presentation

### Cases 1 and 2

An 80-year-old Japanese man was referred to our hospital for a urologic disease. Computed tomography (CT) examination of the abdomen showed bilateral CIA aneurysms with a maximal diameter of 40 mm (Figure 1).

A 78-year-old Japanese man was referred to our hospital for AAA. Follow-up was conducted with an annual CT. The patient underwent EVAR after the latest follow-up because the maximal diameter of the AAA was increasing in size and had reached approximately 40 mm, and bilateral CIA aneurysms had maximal diameters of 31–40 mm.

Both patients with bilateral CIA aneurysms that did not have a suitable landing zone for the standard iliac

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# Endovascular Repair With Contralateral External To Internal Iliac Artery Bypass Grafting A Case Series

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