12-Year Experience With The Cook IBD Show Its Effectiveness And Durability: How To Improve The Poor Results Of Others When There Are Associated Hypogastric Aneurysms: From The pELVIS Registry

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Iliac artery aneurysms (IAA)
- 30% of abdominal aortic aneurysms (AAA) extend to the iliacs
- Most IAA are treated in a concomittant fashion when treating AAA
- Until recently, there have been only single-center studies

Recent publications (selection)

pELVIS Registry
- Large experience: Greatest patient collective in the literature
- Long experience: Follow up duration up to 10 years
- Inclusion of challenging morphology of the iliac vessels treated (CIA, EIA, IIA)
- Large experience with different indications and bridging stent-grafts

Involvement of the Internal Iliac Artery
- Absence of distal landing zone
- Higher rates of dislocation and thus endoleak/rupture
**Principles of excluding the IIA**

- No other option patients
- Implantation of a self-expandable stent-graft into the relevant branch of IIA (mostly posterior division)
- Embolization and sacrifice of other branches

**Results**

- Technical success rate 100%
- Primary patency rate 95.3% at 24 mo
- 0 type I or III endoleaks
- 9.5% type II endoleaks
- No patient suffered from buttock claudication
- 4.8% erectile dysfunction

_Austermann et al | J Vasc Surg 2013_
Conclusions

Internal Iliac Artery involvement has higher risk of type Ib endoleaks and pelvic ischemia.

With the right technique, extending into hypogastric branches, complication rates can be significantly reduced.