

A pain in the buttock: Iliac branch devices versus internal iliac artery embolization during elective infrarenal EVAR

N.Chinai, E. Papworth, J.E. Coulston, P.S. Evers, T. Ward, K. Balasubramanium, A.H.R. Stewart, I. D. Hunter
Somerset and North Devon Regional Vascular Centre

Disclosure

Speaker name:

Natasha Chinai.....

I have the following potential conflicts of interest to report:

- Consulting
- Employment in industry
- Stockholder of a healthcare company
- Owner of a healthcare company
- Other(s): Financial support from COOK Medical to attend LINC 2016

- I do not have any potential conflict of interest

Background

- Suitability for successful EVAR depends on aneurysm morphology
- Ectatic or aneurysmal iliac arteries compromise the success of endovascular repair due to inadequate distal sealing
- Embolisation of the internal iliac artery (IIA) is associated with morbidity and disability

Objective

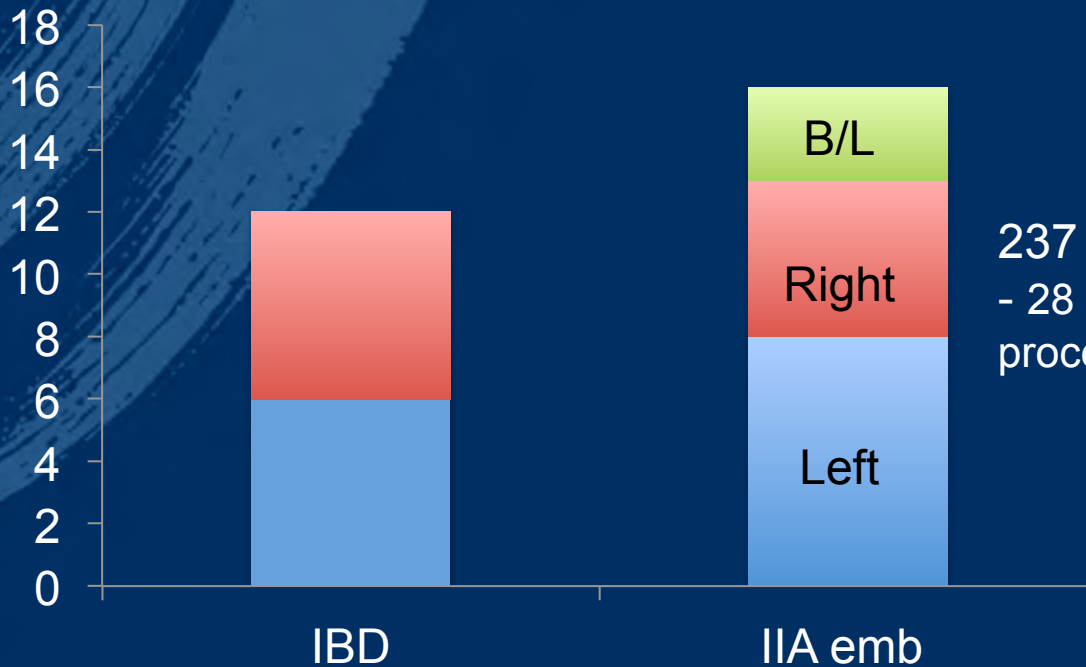
- Aim: To compare Iliac Branch Device and internal iliac artery embolization in patients undergoing EVAR
- Outcomes: morbidity and quality of life



Methods

- All patients undergoing EVAR with internal iliac adjunct over a 4-year period were identified from prospective local and national databases
- Case notes and procedural images were reviewed
- Telephone follow up to assess post-operative symptoms and impact on quality of life (QoL)
 - QoL scores: Walking Impairment Questionnaire, SF-12 and EQ5D

Results

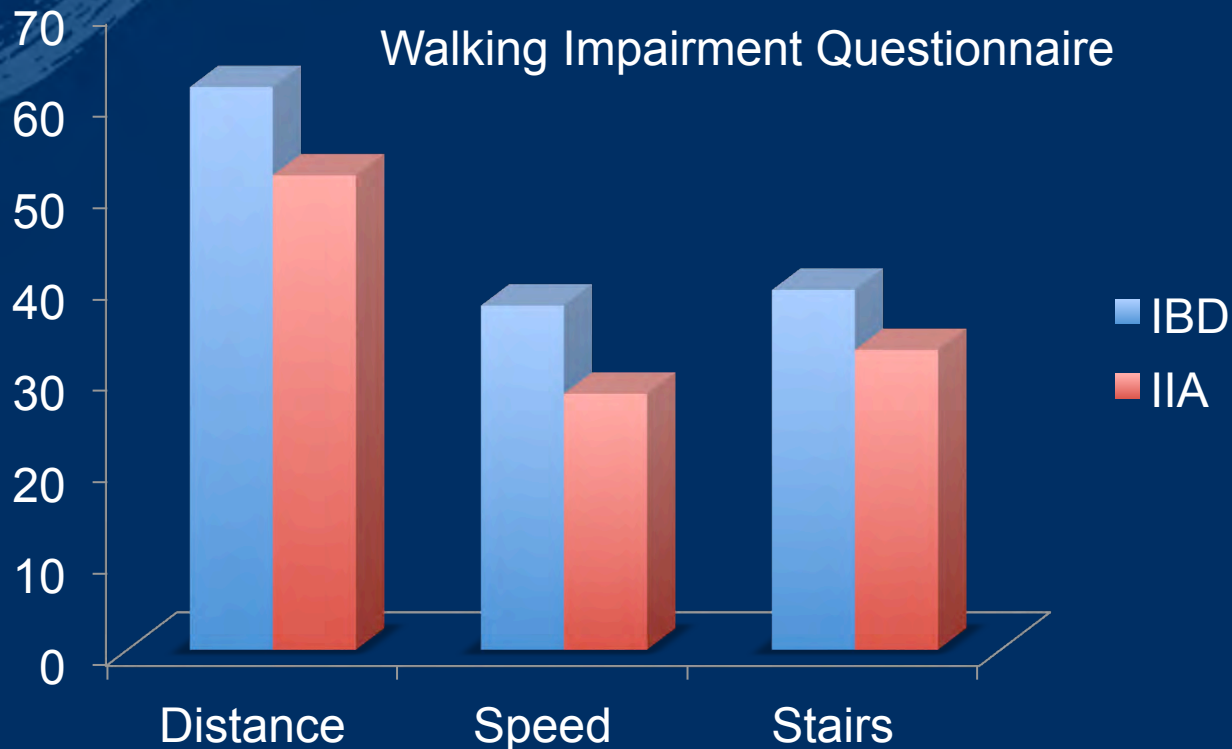


237 infrarenal EVARs
 - 28 patients had adjunctive procedure to IIA

	IBD group	IIA emb group
Age (years)	71.5±7.2	80.1±6.2
Male (n)	12	15

Morbidity

Complication	IBD group	IIA emb group	<i>P</i>
New Erectile dysfunction	0	4	0.06
Ipsilateral buttock claudication	1	8	0.03



Quality of Life – EQ5D



Conclusions

- Sacrificing the internal iliac artery is associated with disabling buttock claudication
- Preserving pelvic perfusion with the successful deployment of an IBD is effective in reducing morbidity
- IBDs provide a safe and effective alternative to treating patients with aorto-iliac aneurysms

A pain in the buttock: Iliac branch devices versus internal iliac artery embolization during elective infrarenal EVAR

N.Chinai, E. Papworth, J.E. Coulston, P.S. Evers, T. Ward, K. Balasubramanium, A.H.R. Stewart, I. D. Hunter
Somerset and North Devon Regional Vascular Centre