

ORAL PRESENTATION

Open Access

Endovascular stent-graft procedures in aorto-iliac pathologies: a single center experience

A Kucuker^{1*}, M Hidiroglu¹, M Canyigit², L Cetin¹, F Saglam¹, E Sener¹

From 23rd World Congress of the World Society of Cardio-Thoracic Surgeons
Split, Croatia. 12-15 September 2013

Background

We present our early results of endovascular treatments for the pathologies involving aorta and iliac arteries.

Methods

117 endovascular stent-graft procedures in 113 patients for thoracic, abdominal and iliac pathologies was performed at our institute between January 2009-April 2013. 94(83.1%) patients were male. Indications for endovascular interventions were as follows; 58 for abdominal aortic aneurysm, 14 for descending aortic aneurysm, 4 for both descending and abdominal aortic aneurysms, 2 for thoraco-abdominal aneurysm including visceral arteries, 22 for aortic dissection, 2 for penetrating ulcer, 6 for traumatic aortic rupture, 1 for intramural hematoma, 1 for bronchial artery aneurysm and 3 for common iliac artery aneurysm. Chimney and periscope techniques were used in 2 patients and iliac-branched endograft was placed in 2 patients.

Results

25 of the 113 cases were treated emergently while the rest were elective procedures. Postoperative 30-day mortality was 6.19% (n=7). 5 of them had acute aortic pathologies (3 contained rupture, 1 traumatic aortic rupture, 1 acute type-B dissection). The rest 2 patients died on the follow up period. Paraplegy occurred only in one patient(0.88%). Early endoleak rate was 21.2%, whereas late endoleak rate was 5.3%. 5 patients(4.2%) needed a second intervention. Visceral artery thrombosis was experienced in one patient during thoraco-abdominal aneurysm treatment with chimney technique, so the procedure was to be interrupted leaving abdominal aorta

repair to a second stage. The overall technical success was 99.1%. Conversion to open surgery was not required in any patient.

Conclusion

Endovascular aortic repair is an encouraging technique with low morbidity and mortality rates even in the emergency cases. Our early results of endovascular interventions correlate with the literature data.

Authors' details

¹Ataturk Training and Research Hospital, Cardiovascular Surgery Department, Karsiyaka-Izmir, Turkey. ²Ataturk Training and Research Hospital, Radiology Department, Karsiyaka-Izmir, Turkey.

Published: 11 September 2013

doi:10.1186/1749-8090-8-S1-O111

Cite this article as: Kucuker et al.: Endovascular stent-graft procedures in aorto-iliac pathologies: a single center experience. *Journal of Cardiothoracic Surgery* 2013 **8**(Suppl 1):O111.

Submit your next manuscript to BioMed Central
and take full advantage of:

- Convenient online submission
- Thorough peer review
- No space constraints or color figure charges
- Immediate publication on acceptance
- Inclusion in PubMed, CAS, Scopus and Google Scholar
- Research which is freely available for redistribution

Submit your manuscript at
www.biomedcentral.com/submit



* Correspondence: asliastan@yahoo.com

¹Ataturk Training and Research Hospital, Cardiovascular Surgery Department, Karsiyaka-Izmir, Turkey

Full list of author information is available at the end of the article