

ORAL PRESENTATION

Open Access

Single center experience of endovascular abdominal aortic aneurysms repair

R Akchurin*, T Imaev, P Lepilin, A Kolegaev, A Komlev, I Pokidkin

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

Background

To present own results of endovascular repair of abdominal aortic aneurysms (EVAR AAA) using different techniques in patients with challenging anatomy and a wide range of different comorbidities being therefore unfit for open surgery due to high perioperative risk value.

Methods

Since May 2010 51 patients with a median age of 69 years were included. Among them there were 32 (89%) men and 4 (11%) women. 28 (78%) patients had infrarenal localization of abdominal aortic aneurysms, 8 (22%) patients had juxtarenal localization of AAA. In 34 patients (94%) abdominal aortic aneurysms were etiologically atherosclerotic and in 2 patients (6%) it was Marfan syndrome to be the definite reason for aneurysmatic disease.

The maximum dimensions of the abdominal aorta averaged 59 ± 18 mm. All patients had challenging anatomy: short and severely angulated and/or conic proximal aortic neck, unsuitable distal "landing zone", thrombus, calcification and complicated morphology, complex aneurysms and dissections of iliac and femoral arteries.

Results

All patients got epidural/spinal anesthesia. 4 patients with juxtarenal AAA were operated on with fenestrated endoprostheses and in 4 patients- "chimney" technique was used (including 1 patient with "sandwich" technique). In cases of complicated morphology of iliac arteries subclavian/axillary access was used. Also we made femoro-femoral or femoro-popliteal bypass in 3 patients with need of lower extremities revascularization. Still 2 patients revealed acute in-stent thrombosis due to dissection of distal part of external iliac artery and due to

crushed chimney-stent successfully managed with balloon angioplasty and supplementary stent implantation. Hospital mortality was 2,8% (1 patient died due to acute MI on 5 day after procedure). 30-day's mortality was 2,8% as well.

Conclusion

EVAR is the promising alternative to conventional open aortic repair.

Published: 11 September 2013

doi:10.1186/1749-8090-8-S1-O7

Cite this article as: Akchurin et al.: Single center experience of endovascular abdominal aortic aneurysms repair. *Journal of Cardiothoracic Surgery* 2013 **8**(Suppl 1):O7.

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: cardio@nm.ru

Cardiovascular Surgery, Russian Cardiology Research Center Moscow, Russian Federation