

ORAL PRESENTATION

Open Access

The comparison of the results of surgical treatment («elephant trunk» operation and hybrid technique with stent-graft implantation) of the thoracic aorta dissection type A

A Shket^{1*}, Y Astrousky², V Shumavec¹, U Andrushchuk¹, S Spirydonau¹, V Takunou¹

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

Background

The aim of this research was to compare the results of surgical treatment of the thoracic aorta dissection type A in patients who underwent «elephant trunk» operation and hybrid technique with stent-graft implantation.

Methods

94 patients (mean age 48,7, males – 79) patients with type A dissection of the thoracic aorta (DeBeckey 1) within the period from 2001 to May, 2013 were operated. The 59 patients underwent «elephant trunk» operation – group A, 35 were operated with hybrid technique (E-vita Open stent-graft implantation) – group B. Aortic valve sparing was used in 58 (61,7%) cases. Extra corporeal circulation through arteria subclavia dextra – venae cavae was performed. Cerebral and visceral protection were carried out with unilateral cerebral perfusion through arteria subclavia dextra and additional contour for perfusion of the lower body. Deep 18-28°C and moderate hypothermia till 28°C were used.

Results

Total hospital mortality was 25 patients (26,6%): group A 28,8% and group B 25,7%. 1- and 5-year survival rate are 88,1% and 76,2% in group A, 92,3% and 88,3% in group B accordingly. Such complications as bleeding (14%, 10%), brain edema (8,8%, 0%), spinal stroke (3,5%, 5,7%), renal failure occurred (17,9%, 17,5%) in both group A and B accordingly.

Conclusion

Stent-graft implantation in patients with type A dissection during open heart surgery is more effective in reconstruction of the aorta and the false lumen elimination in descend aorta in comparison with an «elephant trunk» operation.

Authors' details

¹Cardio-Surgery Department №2, RSPC "Cardiology", Minsk, Belarus.

²Laboratory of Heart Surgery, RSPC "Cardiology", Minsk, Belarus.

Published: 11 September 2013

doi:10.1186/1749-8090-8-S1-O38

Cite this article as: Shket *et al.*: The comparison of the results of surgical treatment («elephant trunk» operation and hybrid technique with stent-graft implantation) of the thoracic aorta dissection type A. *Journal of Cardiothoracic Surgery* 2013 **8**(Suppl 1):O38.

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: ravend13@mail.ru

¹Cardio-Surgery Department №2, RSPC "Cardiology", Minsk, Belarus
Full list of author information is available at the end of the article