

ORAL PRESENTATION

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# Perfusion and visceral organ protection in patients with thoraco-abdominal aneurysm repair – our experiences

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## Background

We report our experience with 8 patients with thoraco-abdominal aneurysm repair in period of 30 months (June 2010 till December 2012), in MAGDALENA - Clinic for Cardiovascular Diseases, Medical University of Osijek.

## Methods

We conducted a retrospective observational analysis of our experience with different approaches and perfusion techniques in patients with thoraco-abdominal aneurysm.

- Group 1: 3 patients: aortic cross-clamp, with left heart bypass, without selective organ perfusion
- Group 2: 2 patients: aortic cross-clamp, without left heart bypass, selective organ perfusion
- Group 3: 1 patient: aortic cross-clamp, with left heart bypass, selective organ perfusion
- Group 4: 2 patients: aortic cross-clamp, without left heart bypass, without selective organ perfusion

## Results

Between June 2010 and December 2012, we performed 8 patients with zero mortality and one late post-operative complication, paraplegia after 48 hours. Left heart bypass duration  $57 \pm 14$  minutes, aortic cross-clamp time duration  $48 \pm 13$  minutes, median ICU stay was 95 hours, average hospital stay was  $12 \pm 3$  days.

## Conclusions

Thoraco-abdominal aneurysm repair with appropriate choice of operative technique and possibility of using left

heart bypass and/or selective organ protection provides good results by means of no mortality and low rate of postoperative complications and morbidity.

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