

ORAL PRESENTATION

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# Impact of pleural integrity during mammary artery harvesting on short term outcome

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## Background

The aim of this retrospective study was to evaluate if the impact of pleural integrity during left internal mammary artery (LIMA) harvesting might influence short term outcome.

## Methods

From May 2012 to May 2013, 136 patients undergoing isolated CABG operation (with or without pump) were enrolled in the study. The mammary artery was always harvested in a skeletonized fashion. These patients were split in two groups: Group A (96 pts) with open pleura and Group B (40 pts) with intact pleura. The two groups were comparable regarding pre- and operative data.

## Results

There were no differences in mean values between Group A and Group B for: Age, BMI, LVEF, CPB time, Cross-clamp time, Number of anastomoses / patients. Group A and Group B were significantly different in terms of ventilation time ( 13,47±/-18,2 h vs 8,4±/-6,3h, p<0,001), bleeding within 12h (540,31±/-283,5 ml vs 392,25±/- 257,8ml, p<0,001), blood transfusion units (1,38±/-1,6 vs 0,6±/-1,4, p<0,001), and length of hospital stay ( 14,7±/-14,3 day vs 11,2±/-7, p<0,001).

## Conclusions

Our data showed that preservation of pleura integrity, when possible, during LIMA harvesting has a strong impact on post-operative course. Pleural integrity can reduce postoperative bleeding with a minor need of blood transfusion. Very likely these finding along with a

less time of ventilation might reduce the length of hospital stay.

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