Reviewer's report

Title: Right axillary and femoral artery perfusion with mild hypothermia for aortic arch replacement

Version: 2 Date: 20 January 2014

Reviewer: Giordano Tasca

Reviewer's report:

The authors has to be congratulate for the effort provided to this type of patients that paid off with excellent results.

I would argue about the high number of aortic arch replacement needed because so far no evidence of better results, with this aggressive approach, has been showed compared to those operated with the “open technique” only. Anyway, I would just ask the authors to comment on that, clarifying why they performed so many arch replacement.

This complex approach it seems reasonable in elective cases of arch replacement, where you have time to spent preparing 2 different vascular accesses. In case of acute aortic dissection it can be applied only in those patients with stable hemodynamics and with at least 2 senior surgeons (quite unusual) available. This is another limitation to add to the LIMITATION section.

I would remove from the section statistical analysis the part regarding the definition and put this part in a new section called DEFINITIONS.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.