Reviewer’s report

Title: Severe Systemic Inflammatory Response Syndrome in Patients Following Total Aortic Arch Replacement with Deep Hypothermic Circulatory Arrest

Version: 0 Date: 04 Jul 2019

Reviewer: Gustavo Judas

Reviewer's report:

Congratulations on the study that addresses the inflammatory response after total arch repair surgery, a very important subject and little discussed in related publications.

Some considerations should be put:

1-As for the diagnostic Criteria for SIRS, due to the severity of the disease and its postoperative condition, many patients remain sedated on mechanical ventilation for a longer period of time (20.0 hours on average up to 45 h), how about the evaluation in these patients?

2-In the description of the technique used it would be important to inform the method of myocardial protection used as well as the cardiopulmonary bypass technical characteristics (for example if the tubes are coated) and the brands used.

3 - Neurological complications (Stroke and paraplegia) could be placed in a separate field since they are more related to the severity of the underlying disease than to SIRS itself.

Level of interest
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An article of importance in its field

Quality of written English
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