Reviewer's report

Title: Microembolic signals and strategy to prevent gas embolism during extracorporeal membrane oxygenation

Version: 4 Date: 8 November 2009

Reviewer: Piero Di Pasquale

Reviewer's report:

This is an very interesting small observational study on cerebral microemboli detection through the transcranial Doppler monitoring during ECMO.

The question posed by authors is well defined.
Methods are appropriate and well described.
Data are easy to understand.
The manuscript adheres to the relevant standards for reporting and data deposition.
Discussion and conclusions are well balanced and adequately supported by the data.
Title and abstract accurately convey what has been found.
The writing is acceptable..
Discretionary Revisions: the length of the video movie could be reduced.

Level of interest: An article of importance in its field

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