Reviewer’s report

Title: Assessment of cerebral circulation in a porcine model of intravenously given E. coli induced fulminant sepsis

Version: 0 Date: 14 Nov 2016

Reviewer: Ashham Mansur

Reviewer’s report:

This manuscript represents a well-conducted study with interesting results.

Please explain why you have used three different statistical tests for continuous variables? why not just using Mann-Whitney Test (also safe when data is not normally distributed)?

Please discuss the possibility that the observed effect on cerebral vasoconstriction of arterioles may be specific to the used anesthetic drugs.

The author should also state that these results may not be verifiable in humans, since the animals were healthy and young in contrast to patients with sepsis, who represents a heterogeneous cohort of critically ill patients with co-morbidity and concomitant medications (eg anti-inflammatory drugs such like statins may counteract the observed vasoconstriction).

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review
Quality of written English
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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