Reviewer’s report

Title: Computer-controlled closed-loop drug infusion system for automated hemodynamic resuscitation in endotoxin-induced shock

Version: 1 Date: 17 Sep 2017

Reviewer: Joseph Rinehart

Reviewer's report:

Much better reporting of the results of the study after the author's revision. Thank you. I have just a few minor suggestions:

P5L19 - Did the authors mean Vaso[constrictor]?

P13L9 - please remove 'the' from the first sentence: "…in all 8 animals…"

P13L45 - P14L37 - The individual descriptions of animals from group A and group B are not as strong as the group reporting in P14L38 - P15L24. I would personally recommend moving these sections (P13L45-P14L37) to the end of the current results, putting them after the summary results of the full cohort and the comparisons between group A and group B.

P16L4 - Please report the p-value and coefficient for this correlation here in the results

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 am able to assess the statistics
Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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UCI holds several patents on closed-loop fluid administration which I am listed as co-inventor on and from which I have the potential to receive royalties, and I am an owner of Sironis, Inc. which develops medical device closed-loop technologies. I am a paid consultant for Edwards Lifesciences which is marketing an assisted-fluid management device in Europe and holds sublicenses on IP I may receive royalties on. I have previously published on closed-loop vasopressor administration in simulation.

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