Reviewer’s report

Title: Levosimendan Combined with Epinephrine Improves Rescue Outcomes in a Rat Model of Lipid-based Resuscitation from Bupivacaine-induced Cardiac Arrest

Version: 0 Date: 30 May 2017

Reviewer: Richard Applegate

Reviewer's report:

Summary: the authors used an animal model to study resuscitation from bupivacaine induced cardiac arrest. They report better results in animals given levosimendan plus epinephrine with lipid resuscitation. This study could have important implications for clinical care.

Major issues:

Methods

Page 8 line 6: please clarify the method by which chest compressions were delivered - was this an automated compression device? if so in what manner was it timed to ventilation? How were animals secured to ensure appropriate compressions were consistently delivered to each animal? This is an important point since the differences in resuscitation and acid-base balance between groups could be magnified if equivalent CPR was not provided to all animals

Page 9 line 28: survival was calculated at 40 minutes; why this time as opposed to 60 minutes or perhaps 1 day?

Minor issues: numerous spelling and grammatical errors are present in the manuscript
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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