Reviewer's report

Title: Succinylcholine's impact on malignant hyperthermia

Version: 2

Date: 20 December 2013

Reviewer: Joseph Tobin

Reviewer's report:

Major revisions:

Experimental conditions: The last sentence of this section details the conditions of diagnosis of an MH episode. The authors state there are six conditions, but I only see five (unless the fifth is a compound condition requiring both elements). Later in the Results section, under hemodynamic data, the SaO2 is mentioned, not PaCO2. This has not been previously introduced as a condition of diagnosis. The SaO2 is mentioned in two paragraphs. This is very confusing and may just be an oversight in editing, but this needs to be addressed or explained.

The authors should point out to the reader why the groups were not of equal size. Is this because the genetics of the animals were performed following the experiments? Or is there another explanation?

Discussion: 4th paragraph: second last sentence - if the observation is an 'increase' in parameters, then BE should be replaced by BD.

Fifth paragraph: second sentence - please place a comma after the word 'injection'. Fifth sentence - please place a comma after the word 'thresholds'.

Sixth paragraph: The word synergistic implies possibly more than additive effects. Although the data suggest a truly synergistic effect in the severity of the presentation of the MH episode, was this tested statistically? If not, I would suggest stating: synergistic or additive.'

Seventh paragraph. I think I understand the meaning here, but this needs to be rewritten for clarity. Also, using shorter sentences may help.

I like figures 1 and 2, but I believe these should be optional as all the data are in the tables.

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

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.