Reviewer’s report

Title: Comparative bench study evaluation of different infant interfaces for Non-Invasive Ventilation.

Version: 1 Date: 25 Mar 2018

Reviewer: Juan Mayordomo-Colunga

Reviewer’s report:

I would like to thank the authors for including most of changes suggested. I would like them to consider some other minor modifications:

* I think that the abstract should include that NIV mode was not used in the present bench study, and also that leaks were nearly zero. I consider that these points are crucial and thus included in the abstract, so that a reader can have a closer idea of the type of study performed here.

* Please check the abstract length, as many words are stuck together.

* Please clarify whether the simulated infant was 3.5 or 5.5 kg (3.5 in the abstract and 5.5 in Methods).

* Results. 2nd sentence. Please provide more information about the trend "toward an increase of the delivered VT during Respireo NIV compared to the FPM". Figure 3 does not allow the reader to know the VT delivered with each interface. And please provide the VT per kg with each interface.

* Discussion. "The VT delivered to the mannequin was between 6-8 ml/Kg, although, during ET, VT showed a trend toward an increase compared during NIV…” Is Respireo missing there (compared during Respireo NIV)?

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.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:
Acceptable

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