Reviewer’s report

Title: The predictive value of diaphragm ultrasound for weaning outcomes in critically ill children

Version: 1 Date: 07 Oct 2019

Reviewer: Andrew Gill

Reviewer's report:

Thank you for the invitation to re-review this paper on diaphragmatic ultrasound and extubation success in children.

The authors have incorporated many of the changes suggested at initial review. In particular standardisation of measurements to weights has significantly improved the interpretation of the data.

The resubmitted document does not appear to obtain Table 1. I assume it is unchanged from the original submission.

Some of the additional text has produced a clumsy phraseology and could be revised (page 9).

I am still concerned that the conclusion that "Diaphragmatic ultrasound has great value in predicting the weaning outcome of critically ill children" is an overstatement of the results of this study. The authors have certainly shown a close association between the results of the SBT and TDF, they have not however shown that ultrasound has superiority over their "gold standard" predictor, SBT, or shown that ultrasound can further enhance the accuracy of SBT. I would wish to see this evidence before introducing diaphragmatic ultrasound into clinical practice, and suggest that this claim is diluted to "potential value".

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?
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No
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:

Needs some language corrections before being published

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