Reviewer’s report

Title: Role of tube size and intranasal compression of the nasotracheal tube in respiratory pressure loss during nasotracheal intubation: a laboratory study

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Reviewer: Manabu Hashimoto

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Response to the BMC Anesthesiology research article: BANE-D-16-00280

Reviewer: Manabu Hashimoto, MD

Department of Anesthesia, St. Luke's Hospital, Tokyo, Japan

Title: 'Role of tube size and intranasal compression of the nasotracheal tube in respiratory pressure loss during nasotracheal intubation: a laboratory study'

Authors: Koichi Futagawa, Yoshihiro Takasugi, Takeharu Kobayashi, Satoshi Morishita and, Takahiko Okuda

The current article by Koichi Futagawa, et al. highlights the pressure loss during nasotracheal intubation. They measured the pressure loss with the simulation model based on actual measure of patients. And they demonstrated that the pressure loss increases as the size of tube decreasing.

Here are my comments that may help improve this article.

Major Compulsory Revisions:

A. Overall comments

1. Complex organization:

The content of this study is novel, unique, and interesting. However, the organization of the report is complex and difficult to understand. The presentation of information was confusing because the background, methods, and results of each experiment were not written in one continuous section. It may be easier to understand if the methods and results are grouped by each experiment.

B. Major comments
1. Methods

   a. In Experiment 2, you used pressure loss values from your previous report. However, you measured the pressure loss of REA tube, not same type. Would you explain why you did not use same type of tubes?

2. Results and discussion

   a. In the Figure 9, the pressure loss looks obviously larger in that of NTTs of small ID. Would you show the statistical significance?

Minor Essential Revisions:

The native English speaker could improve rhetorical manner.

References:


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:

Needs some language corrections before being published

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