**Reviewer's report**

**Title:** Assessing anesthesiology residents' out-of-the-operating-room (OOOR) emergent airway management

**Version:** 0  **Date:** 28 Mar 2017

**Reviewer:** Ruediger Noppens

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This is an interesting manuscript! Thank you very much for doing this important study! For me, it underlines that residents are not qualified for ODOR airway management and clinical teaching as well as training are still insufficient.

1.) Out-of-the-OR airway management has been found to be the most challenging field in medicine. The incidence of difficult intubations are much higher than in the OR, why should a resident perform airway management in the most difficult setting? It seems that this would require the best-trained anesthesiologist with as much experience as possible to act in this kind of environment. It would be great if the authors could address this issue in the manuscript.

2.) Comparing "junior" vs. "senior" residents has a limitation. It does not measure the actual experience in difficult airway management or experience in ODOR airway management. Please address this in the manuscript.

3.) It seems to me that most residents studied the ASA algorithm and therefore felt confident to use this approach. However, the present data put the ASA algorithm in question because the residents had trouble following this method. Maybe a different, more simplified algorithm is needed? Please include this in the discussion of the manuscript.

4.) Another limitation of a study like this are the clinical teachers of residents! If daily clinical teaching is not addressing multiple aspects of airway management simulation alone can not make up for it. Please discuss this aspect in the discussion section.
5.) Is it a bad thing not to follow precisely an algorithm? I guess it is the outcome that matters. What is wrong with a different approach if oxygenation can be achieved in a crisis without following every single step of an algorithm? Please address this issue 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.
Not relevant to this manuscript

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