Reviewer’s report

Title: Supreme™ Laryngeal Mask Airway Use in General Anesthesia for Category 2 and 3 Cesarean Delivery: A Prospective Cohort Study

Version: 0 Date: 08 Aug 2017

Reviewer: Ross Hofmeyr

Reviewer's report:

Thank you for the privilege of reviewing this interesting and important work.

I am of the opinion that the study was well conceived and performed to a good standard.

I note that the entry on clinical trials.gov has not been updated since the registration of the study ion 2013. While this is not necessary for publication, it would be good practice to update the entry to reflect that the study has been completed.

The very high insertion success rate is impressive. While I am comfortable to believe that this reflects a high degree of local experience and skill in the practitioners performing the study, it may raise queries. I would suggest making note of the fact that the study population is fairly homogeneous with respect to BMI (due to the selection criteria) and phenotype. Populations with very varied ethnic backgrounds or where selection of the patients for LMA use is less stringent may not have the same results.

Perhaps worth of discussion is the fact that insertion success was very high despite the use of cricoid pressure. Some authors (myself included) advocate release of cricoid pressure on insertion of an LMA, to allow the tip to enter the postcricoid hypoparyngeal space. Your very high insertion success rates (and success of gastric tube insertion) despite cricoid pressure being maintained call this practice into question, which is very interesting. This might be a feature of the relative rigidity of the SLMA relative to other devices which are softer in the tip (such as the PLMA), and may be of relevance to the reader if the devices used in their centre are different.

Congratulations on your useful addition to the literature on this subject.

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

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