Reviewer’s report

Title: Photoacoustic gas monitoring for anesthetic gas pollution measurements and its crosssensitivity to alcoholic disinfectants

Version: 1 Date: 21 Jul 2019

Reviewer: Evan G. Pivalizza

Reviewer's report:

Thank you for a thorough revision. Only minor recommendations remain

Abstract:

Conclusion - change to understand: .... one third falsely high measured mean gas ..... 

Methods: PA gas monitoring: Clarify if 'Reproducibility is 1%' is with prior reports or with your own results - seems almost unbelievably narrow

Results: Baseline values: Why IQR only added for Sevo?

Volatile add interfering: Consistently probably better that 'always'

Approach to eliminate cross-sensitivity:

Sevo exposure in surgeon breathing zone (n = 20) did not differ .......

To overcome ..... drawn for logarithmic data with recovery time marked. A straight ..... 

Discussion:

1st paragraph:

.... it may attract attention and help reduce ..... 

... aimed to investigate this phenomenon ....
2nd: .... manufacturer advises that ...

... approach can be quickly performed ..... 

Limitations: ..... larger amounts are usually used in clinical routine.

Conclusions: delete 'powerful'

Figure legends:

4: After logarithmic presentation of the data ..... 

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:

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