Reviewer's report

Title: Bacterial Contamination of Home Nebulizers in Children with Cystic Fibrosis and Clinical Implication on the Number of Pulmonary Exacerbations

Version: 1 Date: 17 Sep 2019
Reviewer: John David Aubert

Reviewer's report:

Overall the authors have nicely answered the comments and queries from the reviewers, both on methodology and results. The addition of antibiotic testing for Ps aeruginosa in nebulizer and sputum samples is definite plus of the study.

I have three minor remarks:

I do not understand the use and significance of Odds Ratio applied to the Chi-square analysis for bacterial culture: in my opinion the p value is enough: " The overall correlation of sputum and nebulizer cultures was 93% (P <0.001, OR=20.95)."

The new paragraph and table 4 on hygiene protocol and maintenance is confusing: it is said that only ~50% of the patients washed their nebulizers but in the next sentence that all the patients did the cleaning procedure properly. Obviously one of the affirmation is incorrect, unless the second one applies only to the 50% who did the procedure ? Please clarify

Table 1 : keep the same number of decimals between the results (nb of daily inhalation) and the SD

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:

Acceptable

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