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Name of Journal: *World Journal of Clinical Pediatrics*

ESPS Manuscript NO: 25696

Manuscript Type: MINIREVIEWS

### REVIEWERS COMMENTS

#### Reviewer 1:

The Reviewer's Comment: This review manuscript is on an interesting and important subject. It is clear and well written.

Author's Response to the Reviewer: I thank the reviewer for his/her kind comments about this paper.

The Reviewer's General comments: Some data should be added, may I suggest two references: - Muchao FP et al. Review article Advances in inhalation therapy in pediatrics. J Pediatr (Rio J). 2010;86(5):367-376 - Lannefors L. Inhalation therapy : practical considerations for nebulisation therapy. Physical Therapy Reviews 2006; 11: 21–27 that could help in adding such data.

Author's Response to the Reviewer: The papers were added to the paper as requested by the reviewer.

The Reviewer's Specific comments: The data are limited to spontaneous breathing subject and this should be added in the tittle, otherwise specific issues for inhalation during mechanical ventilation must be added.

Author's Response to the Reviewer: Since no interfaces used during mechanical ventilation, we changed the title as per the reviewer's suggestion. Thank you.

#### Reviewer 2:

The Reviewer's Comment: Thanks for the opportunity to look at this paper. It is a very nice narrative review of devices used in children for aerosol delivery of drug.

Author's Response to the Reviewer: Thank you for your comprehensive review and kind comments about this paper.

The Reviewer's Comment: However, for those making decisions on which device, a greater degree of information is needed as regards the specification of each device in a side by side comparable manner (and what information is missing).

Author's Response to the Reviewer: A table added describing each interface comparing them side by side.

The Reviewer's Comment: For the critical care group - an understanding of devices used in combination with ventilation circuits would be very useful.

Author's Response to the Reviewer: I appreciate the reviewer's suggestion. Since none of the drug delivery interfaces are used with mechanical ventilation, I could not add that section to the paper. I also changed the title as “

The Reviewer's Comment: There also needs to be a better description on devices included and the use of generic "knock-offs" which often don't work well and an expansion of the sections on utility of devices for parents. I would recommend that the paper is improved by a formal specification table on these issues and a methodology section to move the paper to the format of a systematic review rather than purely narrative. A meta-analysis would be inappropriate for this type of topic but the comparison table is essential for a quick and useful reference.

Author's Response to the Reviewer: I agree with the reviewer and believe that writing a systematic review about this subject would be better than a narrative review. However, writing a systematic review on drug delivery interfaces and coming up with some strong recommendations will be inappropriate due to lack of evidence in the literature.

**Reviewer 3:**

The Reviewer's Comment: Very well written and nice to read paper, well done Just a small thing, in page 6 “high-flow nasal cannula” should be “high-flow nasal cannula (HFNC)” so you can use HFNC later. Please find any abbreviation without full name to make the manuscript self explanatory.

Author's Response to the Reviewer: I really appreciate the reviewer's kind comments and made the changes as per his/her request. Thank you!