OPEN PEER REVIEW

Open Peer Review (OPR)

As a new feature for progressing towards transparency, we decided to open a new window for all of our editors as well as authors titled "**Open Peer Review**". We hope by this new facility, our reviewers will be more motivated and authors will be more satisfied with the review process. We believe that publishing our peer review reports could make a transparent and clear environment for all our efforts within a journal, but not all reviewers tend to publish their comments.

What is "Open Peer Review" process?

An "Open Peer Review" process is making the details of all review process (including reviewers, associate editors, and EICs comments) as "Public" as it is agreed by EIC, Authors, and reviewers.

Advantages of "Open Peer Review" process

- More transparency, constructiveness and tactful comments of the peer review process: leads to an increase in the quality of reviews
- More motivations for all involved roles in the review process
- Authors' satisfactions from the review process: Increases honesty between authors and reviewers
- Education of both authors and new students
- Prevents reviewers from following their individual agendas and leading to the detection of reviewers' conflicts of interests

You can find out more at:
https://brieflands.com/briefland/knowledgebase/category/tree.html#opr.html

Iranian Journal of Pediatrics
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Peer Review Report for "Cardiorespiratory Parameters in Intermittent Positive Pressure Ventilation Versus Spontaneous Ventilation in Under One-Year-Old Pediatrics: A Randomized Trial"

Author(s): Ali Zare, Alireza Ghanbari, Arman Nasiri , Behrang Nooralishahi , Hamid Zaferani Arani

Review Timeline:

Submit Date: 16 Sep 2020
Revised Date: 30 Jan 2021
Accepted Date: 27 Apr 2021

Revision (0)

Here, you can see the **Reviewers**, **Associate Editors** and **EICs'** comments from the beginning to the end of the revision process.

Ana Dragoljub Mandras: Reviewer | **Revision** (0) 25 Oct 2020

Dear AE,
Thank you for submitting your manuscript. The idea is good but the manuscript needs major revision. I hope you will reconsider my suggestions.
General suggestions
English language needs to be corrected and checked again. There are some grammar issues that needs correction. My advice is to use short sentences, avoid conditional sentences, use simple tenses as well. Remember, the majority of readers are not native English speakers.
Writing style is also important. Since this is not a magazine but scientific and academic journal please do not use “everyday OR slang” such as : prep and drep or cath lab, plus this or that, ok? Use whole words, whole sentences, avoid abbreviations.
Article structure suggestions
Carefully read instructions for authors in IJP again there you will find CONSORT guidelines

that will help you to structure and standardize you manuscript.
Title and abstracts :
Please identify manuscript as randomized trial in the title. You might want to include in abstract inclusion and exclusion criteria.
Background:
What is your hypothesis? Since this is interventional study this means that you are comparing one protocol to another in order to prove H1 or not, right? So, you have to have clearly stated hypothesis.
Material and methods:
Please indicate eligibility criteria for patients both inclusion and exclusion, identify groups ex: group A, group B…etc and allocation ratio. State setting and location (ex: name of hospital, country, date…). Was your study performed in accordance to declaration of Helsinki? State that please. Hoe did you determine the sample size? What method did you use for randomization and allocation?
Results:
Use CONSORT flow chart to present the flow of participants in the study. Insert the table to show characteristics of patients (sex, age, body weight….etc.). You need this to show if there are some differences between groups that could have impact on the result. Tables you added are done improperly. Now, in the table, indicate groups, number of patients, variable and P.
Conslusion:
In conclusion, summarize what you have discovered in one short sentence. (example: in this study we have found that IPPV and spontaneous ventilation have the same effect….Both techniques can be used…..)
Thanks

Ali Dabbagh: Reviewer | **Revision** (0) 24 Nov 2020

Dear AE,
The manuscript deals with an important issue and is appropriate for publication.
Thanks

REFEREE: Associate Editor | **Revision** (0) 24 Nov 2020

Dear EIC,
The manuscript is studied, and there are some comments which should be addressed by the author. According to the comments, the document needs major revision.
Kind regards,

REFEREE: EIC | **Revision** (0) 24 Nov 2020

Dear Authors,
Thank you for submitting your manuscript to Iran J Pediatr. Your manuscript has now been reviewed by two reviewers and an Associate Editor. I now have the reports of the Referees, which suggest that your manuscript might be suitable for publication following a number of revisions. I attach some reviewer comments and invite you to submit a revised version of your manuscript addressing the points made.

Regards

OPEN PEER REVIEW

Revision (1)

Reply to Reviewers

Ideally, the reviewing process can significantly improve the submitted manuscripts by allowing the authors to take into account the advice of reviewers. Author(s) must reply to all reviewers' comments in a separate Word file, point by point. A "**Reply to Reviewers**" document is submitted along with revised manuscript during submission of revised files, summarizing the changes that the authors made in response to the reviewers' comments. The responses to reviewers' comments specifies how the authors addressed each comment the reviewers made.

You can read the authors' responses to the reviewers' comments in the next page.

Jan 6, 2021

Dear Editorial Board,

Iranian Journal of Pediatrics

We appreciate the given opportunity to revise our manuscript entitled “Cardiorespiratory parameters change on intermittent positive pressure ventilation vs. spontaneous ventilation in less than one-year-old pediatric; a randomized trial”. We believe that the reviewer’s comments improved our paper. The responses are listed below and the changes are Track Changed in the revised version.

Reviewers' Comments:

Reviewer 1:

Dear author,

Thank you for submitting your manuscript. The idea is good but the manuscript needs major revision. I hope you will reconsider my suggestions.

General suggestions

- English language needs to be corrected and checked again. There are some grammar issues that needs correction. My advice is to use short sentences, avoid conditional sentences, use simple tenses as well. Remember, the majority of readers are not native English speakers.

Reply: The paper was completely reviewed, and grammatical errors and typos were corrected by an external reviewer.

- Writing style is also important. Since this is not a magazine but scientific and academic journal please do not use “everyday OR slang” such as: prep and drep or cath lab, plus this or that, ok? Use whole words, whole sentences, avoid abbreviations.

Reply: The text was completely edited again.

Article structure suggestions

- Carefully read instructions for authors in IJP again there you will find CONSORT guidelines that will help you to structure and standardize your manuscript.

Reply: The manuscript was restructured according to IJP guidelines.

Title and abstracts:

- Please identify manuscript as randomized trial in the title. You might want to include in abstract inclusion and exclusion criteria.

Reply: *The "a* randomized trial*" was added to the title. Inclusion and exclusion criteria were inserted in the abstract, as follows:*

"Cardiorespiratory parameters on intermittent positive pressure ventilation vs. spontaneous ventilation in less than one-year-old pediatric; a randomized trial*"*

"60 children younger than one-year-old were enrolled. The pulmonary, renal, hepatic, and metabolic background diseases, previous cardiac and thoracic surgery, requiring over two ketamine doses, and receiving sedative or anti-convulsant therapeutics were excluded.*"*

Background:

- *What is your hypothesis? Since this is interventional study this means that you are comparing one protocol to another in order to prove H1 or not, right? So, you have to have clearly stated hypothesis.*

Reply: Hypothesis was added in the last background paragraph, as follows:

"Regarding the fact that a significant change in the level of PCO2 could adversely affect angiographic measurements, we hypothesized that they would be no difference in PCO2 measurements between the groups (H0)."

Material and methods:

- *Please indicate eligibility criteria for patients both inclusion and exclusion, identify groups ex: group A, group B…etc and allocation ratio.*

Reply: The inclusion and exclusion were more defined, as follows:

"Then the patients were equally allocated between two groups by simple random sampling. In group A, anesthesia induction was done by intravenous injection of ketamine 1 mg/kg and mask oxygenation plus Bain Circuit with oxygen 100%, and sevoflurane 1.5 minimum alveolar concentration (MAC) with spontaneous ventilation maintenance. Tracheal intubation was performed after 1 minute. After approval of the true position of tracheal tube and spontaneous ventilation, the tracheal tube was fixed and sevoflurane 1.5 MAC and oxygen 21% were administered. After 10 minutes and following preparation and drape and pushing the angiography needle to the skin, the sevoflurane dose was decreased to 1 MAC. Intravenous ketamine 0.5 mg/kg was used while repeat needling was needed or the patient moved. In group B, with the same induction method, 1 mg/kg ketamine was injected intravenously plus mask oxygenation and Bain Circuit with oxygen 100%, and atracurium 0.5 mg/kg for maintenance. After tracheal intubation and confirming the true location, the anesthesia was continued with sevoflurane 1.5 MAC and oxygen 21%. After 10 minutes and preparation and drape plus angiography needling, the sevoflurane dose was reduced to 1 MAC. The ventilation was controlled to maintain normocapnia status. The inspiration volume was 8 ml/kg with respiration count which maintained the carbon dioxide between 30 and 35 mmHg. The measurements were done by a blind subject."

- *State setting and location (ex: name of hospital, country, date…).*

Reply: *The study has done in the Children's Medical Center, Tehran, Iran, as follows:*

"Referred to the Children's Medical Center, Tehran, Iran"

- *Was your study performed in accordance to declaration of Helsinki? State that please.*

Reply: Yes, the study was performed according to the Declaration of Helsinki that mentioned in the Compliance with Ethical Standards part, as follows:

“This study has been approved by the local ethical committee and has therefore been performed in accordance with the ethical standards laid down in the 1964 Declaration of Helsinki and all subsequent revisions.**”**

- *How did you determine the sample size?*

Reply: Sample size determination was explained, as follows:

“Having PCO2 as the most affected parameter from ventilation strategy, based on a pilot study of 10 patients, we assumed Mean PCO2 during IPPV and spontaneous breathing being 34 & 39, respectively. Thus, we determined that a total sample size 60 would be sufficient to detect a 5mmHg difference in PCO2 between the groups, estimating an SD of 5 mmHg, a power of 95%, and a significance level of 5%.”

- *What method did you use for randomization and allocation?*

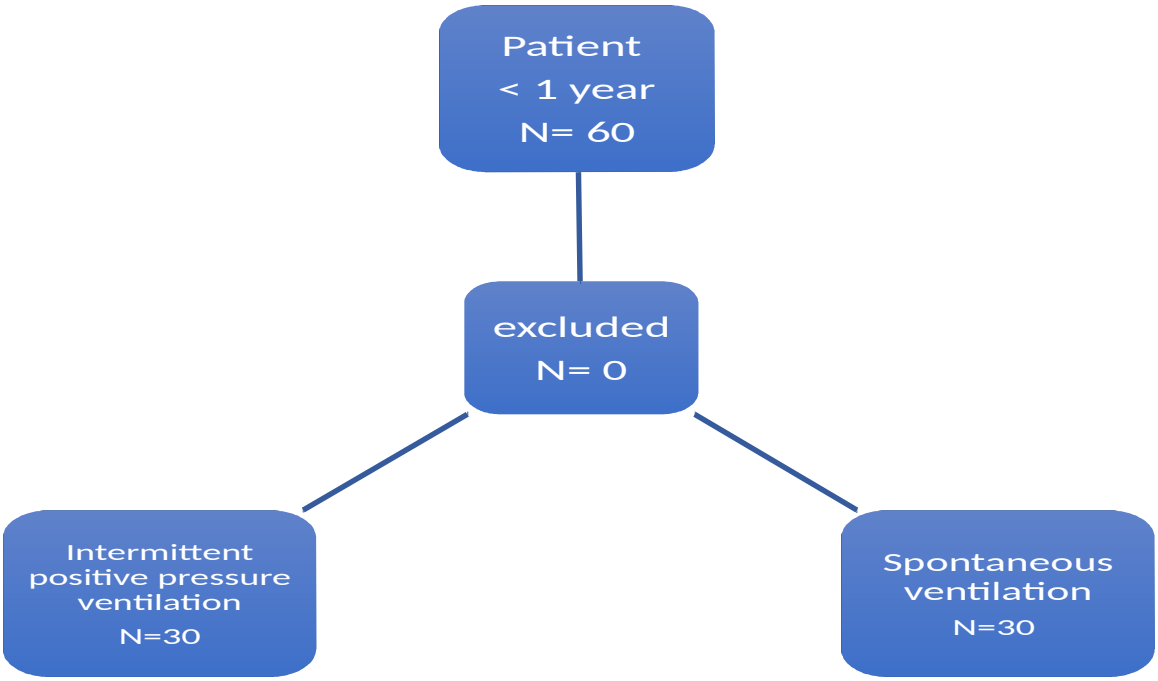
Reply: We used the simple *random* sampling method for dividing the patients between two groups, as follows:

“Then the patients were equally allocated between two groups by simple random sampling (Figure 1)”

Results:

- *Use CONSORT flow chart to present the flow of participants in the study.*

Reply: *CONSORT flow chart was added as figure 1, as follows:*



- *Insert the table to show characteristics of patients (sex, age, body weight….etc.). You need this to show if there are some differences between groups that could have impact on the result. Tables you added are done improperly. Now, in the table, indicate groups, number of patients, variable and P.*

Reply: Table was added and mentioned in main text, as follows:

"Table 1 presents a summary of the baseline characteristics of the participants in the two groups, including gender, age, and past operation history"

"Table 1: Demographic patients' information.

		Total (N=60)	Intermittent positive pressure ventilation (N= 30)	Spontaneous ventilation (N= 30)	P-value
Gender	Male	32	18 (60%)	14 (46.7%)	0.301
	Female	28	12 (40%)	16 (57.1%)	
Age (months)		6.63±3.40	6.21±3.35	7.05±3.46	0.348
Past operation history		59	2 (6.7%)	1 (3.3%)	0.574

Data are mean ± SD, and frequency (percentages)."

Conclusion:

- *In conclusion, summarize what you have discovered in one short sentence. (example: in*

this study we have found that IPPV and spontaneous ventilation have the same effect…. Both techniques can be used…..)

Reply: *The conclusion was revised, as follows:*

"In this study, we have found that IPPV and spontaneous ventilation have the same effects on respiration. Both techniques can be used in children with different cardiovascular catheterization conditions to increasing accuracy and reducing alterations in cardiopulmonary parameters.**"**

Reviewer 2:

The manuscript deals with an important issue and is appropriate for publication.

Associate Editor's Comments:

Associate Editor 1:

Your paper has been examined by 2 external reviewers and then re-evaluated in-house. The reviewers believe that your manuscript is interesting but not publishable in its current form. They have raised a number of points, listed on the web site and provided below for your convenience.

In new version please consider following comments:

- Discussion is superficial, and it should be revised thoroughly. They are not a real discussion concerning the results in paragraphs. The authors repeated detailed results. The exact thing you may explain is what, why and how this result adds to the literature?

Reply: The mentioned comments were carefully followed.

- The format of Ref 15 and 16 should change based on IJP guidelines.

Reply: The mentioned references were corrected as IJP styles.

- Some references are very old. Please up date with new references.

Reply: All references were rechecked and rearranged.

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Revision (1)

Here, you can see the **Reviewers**, **Associate Editors** and **EICs'** comments from the beginning to the end of the revision process.

Ana Dragoljub Mandras: Reviewer | **Revision** (1) 15 Apr 2021

Dear AE,
The author corrected all that was emphasized.
Thanks

REFEREE: Associate Editor | **Revision** (1) 27 Apr 2021

Dear EIC,
The revisions have been deemed satisfactory. However, the final outcome of the decision to publish or not will be conveyed to you by the editorial board.
Thanks

REFEREE: EIC | **Revision** (1) 27 Apr 2021

Dear Authors,
The second round of peer review of your manuscript has been completed, and I am pleased to inform you that your manuscript has now been accepted for publication in our journal.
Thanks