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OPEN PEER REVIEW

Effect of Treatment of Patent Ductus Arteriosus on Pulmonary Hemorrhage in Very Low Birth Weight Neonates

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1 Original submission

2 comments · 9 Nov 2024 – 9 Nov 2024

Associate Editor

MAJOR REVISION 9 Nov 2024

Dear EIC,
Thanks to the authors and appreciation to the researchers. The manuscript is a valuable piece of research. But some revisions are needed. The authors should revise it based on the comments. Also, a minor change should be made in the abstract:
A summary of the statistical analysis results should be mentioned in the results section.

Editor-in-Chief

MAJOR REVISION 9 Nov 2024

Dear Author,
Thank you for submitting the article. It needs some revision. Please revise it based on the reviewers' and AE's comments.

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Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Dear EIC

Journal of Comprehensive Pediatrics

We sincerely thank associate editor and the reviewers for their thorough evaluation and constructive feedback on our manuscript. We have carefully addressed all comments and made appropriate revisions. Below are our point-by-point responses:

Response to Reviewer 1:

1. Include a flow diagram to illustrate participant flow through the study:

Thank you for this suggestion. We have added a comprehensive flow diagram illustrating participant progression through the study, from initial screening to final outcomes. This has been placed after the Results section introduction to enhance reader understanding of the study population.

2. Discuss potential biases and limitations of the study:

We appreciate this important point. We have added a dedicated "Study Limitations" section before the Conclusion that discusses potential biases, including selection bias due to the retrospective design, generalizability limitations from single-center design, sample size considerations, and potential limitations of our hs-PDA definition criteria.

3. Include demographic and clinical characteristics of infants with PH to enhance understanding of the problem:

We have enhanced the Results section with detailed demographic and clinical characteristics of infants who developed PH, including gestational age, birth weight, gender distribution, IUGR status, ventilation requirements, and timing of PH onset.

Response to Reviewer 2:

1. Clarity of Hypothesis and Research Questions:

We have strengthened the Introduction by explicitly stating our research hypothesis and three specific research questions. This addition provides clearer direction for readers and better frames our study objectives.

2. Incomplete Methodology:

We have expanded the Methods section to include:

- Comprehensive inclusion/exclusion criteria

- Detailed treatment protocol including medication dosage and timing

- Clear description of outcome assessments

We hope that these additions enhance reproducibility and methodological clarity.

3. Weak Statistical Analysis:

We attempted to elaborate the methodology section using the guidance of the esteemed reviewer as follows:

- Normality testing procedures

- Justification for specific statistical tests

- Addition of multivariate analysis

- Detailed description of how relationships between variables were analyzed

4. Weak Interpretation and Conclusion:

The conclusion section of the article was completely rewritten using the recommendations of the respected reviewer to:

-Expanded discussion to include thorough comparison with current literature

-Added in-depth analysis of our findings in context of recent studies (2018-2024)

-Incorporated new references supporting our findings

-Added comprehensive discussion of limitations and generalizability

-Contextualize findings within current clinical practice

-Provide clear implications for clinical care

-Suggest specific directions for future research

-Address practical significance for neonatal care

5. References and Citations:

We have updated our reference list to include recent publications (2018-2024) particularly regarding:

- Added key meta-analyses and systematic reviews
- Included contemporary treatment approach studies
- Added references supporting statistical methodology

Response to Associate Editor:

We have enhanced the Abstract's Results section with specific statistical findings, including p-values for key comparisons and clear presentation of primary outcomes.

Changes Made in Manuscript:

1. Added flow diagram
2. Expanded Methods section
3. Enhanced Statistical Analysis section
4. Added Study Limitations section
5. Updated References
6. Revised Abstract
7. Strengthened Conclusion

Added detailed PH case characteristics

We believe these revisions have substantially improved the manuscript's clarity, completeness, and scientific rigor. All changes are highlighted in the revised manuscript for easy reference.

Thank you again for the opportunity to improve our work. We look forward to your feedback on these revisions.

Sincerely,

Reza Behmadi

2 Revision 1

2 comments · 18 Dec 2024 – 18 Dec 2024

Associate Editor

ACCEPT 18 Dec 2024

Dear EIC.
Previous errors have been corrected, and there are no further recommendations.

Editor-in-Chief

ACCEPT 18 Dec 2024

Dear authors.
Thanks for your valuable efforts in carefully revising the manuscript.
The article could be accepted at this stage.