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Manuscript NO: 92231

Title: Relationship between ultrasound parameters of the umbilical and middle cerebral arteries and intrauterine fetal distress

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Reviewer’s code: 04107568

Position: Peer Reviewer

Academic degree:

Professional title:

Reviewer’s Country/Territory: Reviewer_Country

Author’s Country/Territory: China

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Reviewer accepted review: 2024-02-26 09:57

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Review time: 13 Days and 5 Hours

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<th>Scientific quality</th>
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<th>[ ] Grade B: Very good</th>
<th>[ ] Grade C: Good</th>
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<td>[ ] Grade D: Fair</td>
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<th>Novelty of this manuscript</th>
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<td>[ ] Grade D: No novelty</td>
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<th>Creativity or innovation of this manuscript</th>
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<td>[ ] Grade D: No creativity or innovation</td>
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SPECIFIC COMMENTS TO AUTHORS
I read this study with interest. This study identified the relationship between ultrasound parameters of the umbilical and middle cerebral arteries and intrauterine distress. The study is overall well performed and the findings are well discussed. The middle cerebral, umbilical, and uterine artery parameters and fetal intrauterine distress also are discussed. The manuscript is well written. After a minor revision, this manuscript can be accepted for publication. 1. Please edit and proof the English of this manuscript. Some minor polishing should be revised. 2. Please discuss the limit of the study. 3. The authors should check the data in tables, and edit the structure of the tables.

1. Thank you for your reply, has made the revision.
2. Thank you for your reply. The limitations of this article have been discussed as follows.

  Ultrasound parameters of umbilical artery and middle cerebral artery are important tools for evaluating fetal distress, but there are still significant limitations. First of all, the technology has high requirements for operator experience and equipment quality, and
the measurement results are easily affected by subjective factors and image quality. Secondly, fetal hemodynamic parameters will change dynamically with factors such as fetal status, maternal health status, and examination time. A single test is difficult to fully reflect the entire pregnancy. Furthermore, abnormal blood flow parameters are not directly equated with fetal distress, and false positive and false negative results may occur. In addition, different blood flow parameters are interrelated and have different responses under pathological conditions, which need comprehensive analysis to accurately determine. At present, the normal range and abnormal standard of relevant blood flow parameters have not been unified in the world, which increases the difficulty of clinical interpretation. Therefore, in clinical practice, it is often combined with other monitoring methods to evaluate the risk of fetal distress in order to improve the diagnostic accuracy.

3. Thanks for your comments, have checked the data in the table and edited the structure of the table.