

PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

Manuscript NO: 56158

Title: Application of voxel-based morphometric method to brain with non-cyanotic congenital heart disease

Reviewer's code: 03531928

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2020-04-19

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-05-21 16:17

Reviewer performed review: 2020-06-02 14:30

Review time: 11 Days and 22 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

1. Brain injury is one of the most important postoperative complications of congenital heart disease, but lack of preoperative knowledge. In this paper, the neural development of children with congenital heart disease before operation were evaluated and studied, which is innovative. 2. The neurological abnormalities of children with non cyanotic congenital heart disease, such as PDA and ASD, were not not common in clinic with few reports of brain injury. On the contrary, complex cyanotic congenital heart disease is the main group of brain injury, which is worth studying. 3. The factors that affect the brain injury of congenital heart disease include the type of congenital heart disease, the age of diagnosis, prenatal diagnosis, genetics and delivery. These factors are not mentioned in the data of children included in this article. 4. The physical development of children with CHD is often abnormal. Head circumference is an effective predictor of neurodevelopmental disorders. I hope the author can supplement this basic data. 5. The influence of fetal congenital heart disease on nervous system mainly focuses on left cardiac system disease (such as left cardiac dysplasia syndrome). Most of the children included in this paper are PDA and ASD, which are normal fetal structure, so it can basically exclude the possibility of fetal injury. 6. In this paper, there was a short development time, the sample size is insufficient, and there is a lack of sufficient follow-up data and neural system evaluation data.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: China

Manuscript submission date: 2020-04-19

Reviewer chosen by: Ji-Hong Liu (Technical Editor)

Reviewer accepted review: 2020-07-08 12:27

Reviewer performed review: 2020-07-08 13:02

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The diseases included in the manuscript were all simple congenital heart disease, which had little impact on the patient's nervous system and was not representative. The sample size of the manuscript is small.