Reviewer’s report

Title: Correction of Aortic Coarctation in a Girl with severe PHACE Syndrome

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Reviewer: Sheng-shou Hu

Reviewer’s report:

PHACE syndrome is an extremely rare disease. This paper reported one case of severe PHACE syndrome showing multiple great vascular distortions, narrowing of the aortic arch and huge aneurysm of descending aorta, as well as the cerebral vascular severe deformity: the distal left internal carotid artery and the origin of the right anterior cerebral artery were vanished. The author repaired the aortic coarctation successfully and the surgical short outcome was good. Obviously, the author’s experiences have important guiding value for the clinical understanding of this disease.

Specific comments:

1. The operation was carried out successfully by using an artificial graft. Authors should explain the reasons why not use cut and suture technique or surgical widening of the patch.

2. Please explain if the patient had a history of head symptoms.

3. There is a distortion in the descending aorta. Please illustrate the postoperative blood pressure gradient between upper and lower extremities and explain the criteria for treating the distortion in the descending aorta.

In summary, the manuscript can be accepted after minor essential revisions.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Declaration of competing interests:

I declare that I have no competing interests.