Reviewer's report

Title: A New Method to Retrospectively Study the Hemodynamic Changes before and after Aneurysm Formation in Patients with a Ruptured or Unruptured Aneurysm

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Reviewer: Jian He

Reviewer's report:

In this study, the authors compared hemodynamic changes before and after formation of brain aneurysms between a ruptured and unruptured Pcom aneurysm patient. They have found that using a vessel surface repair method to retrospectively study hemodynamic characteristics before and after aneurysm formation is feasible, economical, and simple. I have only a few small concerns which need to be addressed.

1. Major Compulsory Revisions
   None

(2) Minor Essential Revisions

1. In the abstract, a conclusion statement of the hemodynamic characteristics between ruptured and unruptured aneurysm should be added.

2. The discussion is too long and should be reduced and more focused.

3. Hemodynamics is one of the most important factors but not the only factor causing brain aneurysm rupture, other possible factors such as arterial wall degeneration, high blood pressure should also be briefly discussed.

4. Figure 5 should be canceled because in Figure 2-B and Figure 3-B, an inflow jet has already been observed in the ruptured aneurysm and not observed in the unruptured aneurysm.

5. Despite well writing, this manuscript still needs some language corrections before being published.

(3) Discretionary Revisions

None

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.
Declaration of competing interests:

I declare that I have no competing interests.