Author’s response to reviews

Title: The correlation between the height of mitral valve coaptation and mitral regurgitation after mitral valve repair

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Dear Editor,

The correlation between the height of mitral valve coaptation and mitral regurgitation after mitral valve repair

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The manuscript has been improved according to the suggestions of reviewers:

Reviewer #1

Major revisions

1) The detail methods of mitral valve repair should be showed because the type of mitral valve repair, such as resection and suture, neochordal repair, edge to edge suturing, and so-on, associates with recurrent mitral valve regurgitation at long-term.
Answer: Thank you very much for your review. We have added the detail operative procedure in the methods.

2) Please show the detail of patient's background, and intra- and postoperative outcomes, such as comorbidity, etiology of mitral valve regurgitation, operation time, cardiopulmonary bypass time, cardiac arrest time, complications, and so-on.

Answer: Thank you very much for your review. We have added the detail information in table 1.

3) The mitral valvuloplasty may be inadequate phrase in manuscript. The phrase of mitral valve repair may be better in manuscript.

Answer: Thank you very much for your review. We have corrected this phrase.

4) The sentence 'CH have a statistically significant negative correlation with the degree of mitral regurgitation' in Abstract, Result, Conclusion section may be inadequate because the sentence evokes that increasing CH leads the severe mitral regurgitation after the mitral valve repair. Therefore, the authors should be revised the sentences.

Answer: Thank you very much for your review. We have described that there is a negative correlation, which means when the CH is higher, the degree of the mitral regurgitation is lower.

5) The matter of Discussion section may be insufficient. The authors should be considered about the correlation between coaptation height and methods of mitral repair, and etc.

Answer: Thank you very much for your review. We have described this in our limitation as “The differences of the surgery procedures and cardiac function were not excluded in this study, which may affect the measurement of mitral regurgitation”.

6) Please add the informed consent and ethics.

Answer: Thank you very much for your review. We have added the description.
Minor revisions

1) The sentence 'In mitral valvuloplasty, the greater the mitral valve coaptation area is…' in Introduction section, line 19-20, is incomprehensible. Please revise the sentence.

Answer: Thank you very much for your review. This sentence is the “the more, the more” sentence pattern.

2) There is some lousy typing through the manuscript.

Answer: Thank you very much for your review. We have corrected the lousy typing, which may be caused due to the version of the WORD.

3) Please undergo the native speaker checks.

Answer: Thank you very much for your review. Our paper was checked by native English speaker.