

Dear Editors and Reviewers:

Thank you for your letter and for the reviewers' comments concerning our manuscript entitled "Different squatting positions after total knee arthroplasty: A retrospective study" (Manuscript NO.: 73637, Retrospective Study). Those comments are all valuable and very helpful for revising and improving our paper, as well as the important guiding significance to our researches. We have studied comments carefully and have made correction which we hope meet with approval. As you recommended, we have submitted a clean revised manuscript. The main corrections in the paper and the responses to the reviewer's comments are as following:

Responses to the comments of **Reviewer 1:**

**1.**Comments (This is an very interesting study of different squatting positions after total knee arthroplasty. The study is very well designed and the results are very interesting. The reviewer recomends to accept this study after a minor editing.)

Responses: We have checked the content and format of the full text again and found no obvious mistakes or problems. Thank you very much for your comments.

Responses to the comments of **Reviewer 2:**

**1.** Comments (Were all the implants CR or PS - any differences- mentioned all high flex)

Responses: The prosthesis used in all our patients was PS150. We also added detailed instructions at the end of Part "Patients". The content added is "All patients used high flexion prosthesis (PFC Sigma PS150; DePuy, Warsaw, IN, USA)".

**2.** Comments (Any modification in the protocol)

Responses: We have no parts to modify in the protocol.

**3.** Comments (Follow up wide range What are the other variables considered Pre op ROM)

Responses: Our study was retrospective, so there was no prospective design. However, preoperative factors affecting postoperative mobility of patients mainly include preoperative mobility, age, knee bone mass and so on. These factors are also in the research stage, which is also what we need to do next.

**4.** Comments (Patella replacement criteria Significance between ROM in patella replacement vs non replaced Difference between satisfaction rate between half squat and deep squat significant However difference between KSS , HSS between all groups minimal Interpretation)

Responses: Because there is a significant roof effect due to the lack of assessment of the patient's postoperative squatting ability in the existing scoring table, and the different squatting abilities of the patients cannot be effectively distinguished from the scoring results. In the Discussion section, we discuss the reasons for this.

**5.** Comments (Other factors responsible Recommendation regarding deep flexion after TKA Literature and long term clinical effects on insert and components unknown Recommendations regarding squatting after TKA Overall good series would be better with above points addressed and modification of discussion)

Responses: In the Discussion, we recommend the points that should be paid attention to in the postoperative rehabilitation of patients, so that the patients can achieve high flexion of the knee joint after TKA, and add the content of the long-term clinical effect of high flexion prosthesis.

Once again, thank you very much for your comments and suggestions.