Reviewer’s report

Title: The Analgesic Efficacy and Safety of Peri-articular Injection Versus Intra-articular Injection in One-stage Bilateral Total Knee Arthroplasty: A Randomized Controlled Trial

Version: 0 Date: 23 Oct 2019

Reviewer: Shinsuke Hamaguchi

Reviewer's report:

Thank you for sending your manuscript regarding RCT of the efficacy of peri-articular injection (PAI) versus intra-articular injection (IAI) in one-stage bilateral knee arthroplasty.

Several recent studies indicated that the peripheral block distributed to joint capsule is more effective than intra joint injection, such as lateral branch neurotomy of sacroiliac joint.

Therefore, the fact is widely recognized that PAI have the prior analgesic effect more than IAI.

However, this study is the first trial of comparison of another intervention in simultaneous TKA case. And your result will be considered as an interestingly finding for many anesthesiologists and orthopedic doctors.

There are several problems should be corrected.

First, background in Abstract is redundant. This part should be summarized clearly and simply. Moreover, your result in abstract must describe more in detail. Please blush up and elaborate this point with your co-authors.

Second, as you described in Discussion, the assessment of pain score of two separate body areas is very difficult excluded besides area's pain. If there is previously manuscript similar with your research, you should cite it regarding the accurate method of pain assessment for postoperative pain with multi body area.

Third, your should cite the efficacy of peripheral block distributed to joint capsule is more effective than intra joint injection to make more meaningful manuscript.

Finally, there are several grammatical errors. Although that number is few, I hope that the more elaboration should be performed.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

No

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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