Reviewer's report

Title: Patient and surgical factors affecting procedure duration and revision risk due to deep infection in primary total knee arthroplasty

Version: 0 Date: 23 Nov 2017

Reviewer: Masanori Tsubosaka

Reviewer's report:

Line 8: The words "follow up..", there is a period before the period. A period should be deleted.

Line 13: The initial word of "Procedure" is spelled in bold type. The word "P" should be collected.

Line 106: Should be changed from table 1 to Table 1.

Line 110-111: In the current study, total knee arthroplasty was performed in the early twenties, but could you describe what exactly are diagnoses other than OA?

Line 113-117: Although it seems that the issue is focused on the ASA classification in the current study, what do you think the cause of the prolonged procedure duration in 3+ ASA classification? You described BMI that could be considered as the one of the causes in the discussion session. Is there any effect of bleeding? Is the air tourniquet used in the procedures? Please describe them.

Line 141-149: As you mention there are several other publications on the effect of duration of surgery on deep infection. However, the difference between the current study and other reports is perioperative complications. Although you described a little about these complications, could you please describe that in more detail?

Line 163-168: Based on the reports about that males are more prone to revision for infection, what kind of countermeasures would you consider?
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.

Yes

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 am able to assess the statistics

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

Acceptable

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