Reviewer's report

Title: Muscle morphometric effect of anterior cruciate ligament injury measured by computed tomography: Aspects on using non-injured leg as control

Version: 1 Date: 19 February 2013

Reviewer: Ji-hoon Bae

Reviewer's report:

Followings are Major Compulsory Revisions

1. Introduction,
   a. Introduction is too long. It can be shortened.
   b. The authors need to describe hypothesis of this study at the end of introduction.

2. Methods
   a. I’d like to see figures showing outlining border of quadriceps, sartorius, gracilis, semimembranosus, semitendinosus and biceps femoris in axial CT images.
   b. How the authors did calculate the percentage difference?
   c. Are there any reasons to perform CT scan after acute stage (2 months after injury) ?

3. Results
   a. I recommend that first paragraph of Results section can be moved to first paragraph of Discussion section.
   b. Table 6 was not provided.

4. Discussion
   a. I recommend that first paragraph of discussion section begin with answers to hypothesis of this study.

5. Conclusions
   a. It can be shortened.

6. Tables
   Table 2 : Is unit of difference not %?
   Table 3 : Please describe p values
   I cannot find Table 6.

7. Abstract
   Background of abstract should be rewritten.
I recommend that following sentences can be included.
Page 6 “Asymmetry due to limb dominance implies --- when evaluating the effect of an injury”

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: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests