Reviewer's report

Title: Electromyographic Analysis of the Three Subdivisions of Gluteus Medius During Weight-Bearing Exercises

Version: 1 Date: 8 April 2010

Reviewer number: 2

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Major Compulsory Revisions
1. As indicated in the limitation, the Gluteus Maximus cover part of the posterior GM, the EMG measured from the posterior GM properly was from Gluteus Maximus. Did the authors take any measures to control this factor?

Minor Essential Revisions
1. Page 3, line 9 to page 4, line 2: the logic stated in this paragraph is unclear and have to restruture this paragraph.

2. As indicated in the limitation, EMG from concentric and eccentric measured from PD were utilized in this study, but they are different in nature, can the author explain the reason for using them together in this study.

3. Page 11, line 15-21, please explain more on the possibility of having WP exercise generated the highest amplitudes.

Discretionary Revisions
1. Try to avoid using "we", or "I" and "think" in the manuscript.

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: No, the manuscript does not need to be seen by a statistician.