Author's response to reviews

Title: Total hip arthroplasty for Crowe IV hip without subtrochanteric shortening osteotomy - a long term follow up study-

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Author's response to reviews: see over
Thank you for your email of February 7, 2014 regarding our manuscript of “Total hip arthroplasty for Crowe IV hip without subtrochanteric shortening osteotomy—a long term follow up study—”, and the valuable comments of the reviewers. I attach here our revised manuscript, as well as point-by-point response to the reviewers’ comments.

For Section Editor’s Comments:
"In the previous comment, I required to perform a post hoc power analysis to assess the statistical validity of clinical outcome as JOA score, because the authors compared the preoperative and postoperative JOA values. No power analysis is required to evaluate the survival analysis."

Thank you for your valuable comments. I also apologize for my misunderstanding of your previous comment. We have performed post-hoc power analysis and added expression on line 144-147 and 153-155 in the manuscript.

On line 144-147:
Paired t-test was used to assess the change in JOA score. Additionally, considering relatively small sample size, post-hoc power analysis was performed to examine the statistical power for the comparison between preoperative and postoperative JOA scores. For statistical analysis, JMP 9 software (SAS Institute, Cary, NC, USA) was used. A differences at p<0.05 was considered statistically significant.

On line 153-155:
...and this difference was statistically significant (P<0.001). The JOA score improved in all hip. The statistical power for the analysis of difference between preoperative and postoperative JOA score was more than 0.99.

We feel that the revised manuscript is a suitable response to the comments, and is significantly improved over the initial submission. We hope that is now suitable for publication in the *BMC Musculoskeletal Disorders*.

Thank you in advance for your kind consideration of this paper.