Author's response to reviews

Title: Custom design of orthopedic implants based on patient specific Computed Tomography data evaluated using Finite Element Analysis - Case of Femoral Component

Authors:

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Author's response to reviews: see over
Editor of BMC Musculoskeletal Disorders

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Dear Editor,

I have revised the manuscript according to the reviewers’ suggestions as can be seen below. I have changed the title of the manuscript to make it shorter and made additional changes to conform to the journal style guidelines. Due to the changes made in response to the first reviewer’s comments, the figures corresponding to the FEA have been updated. I hope that the current version of the manuscript is acceptable for publication.

For additional information please contact me at (919) 513-0220 or at harrysson@ncsu.edu.

Sincerely,

Ola L. A. Harrysson

Assistant Professor
Dear Jia Hua,

Thank you for reviewing my manuscript again and I appreciate your comments. As you suggested I have replaced the FEA of the titanium with the cobalt-chromium, changed the modulus of the cancellous bone to 0.4 MPa, and included the average stress levels from the different analyses.
Dear Chris Sutcliffe,

Thank you for reviewing my manuscript again and I appreciate your valuable suggestions and comments. I have addressed all your concerns in the manuscript and I have explained them below.

- I have standardized the referencing of the software packages and used the format of the PTC as you suggested. I am not sure why I used three different types since I normally use the one that was used for the PTC.

- The reference for the chosen loads has been added and the three load cases have been more clearly explained in the manuscript.

- The width of the boundary conditions has been added in the manuscript.

- The conclusion section has been reworded so that the word “because” is not repeated.

- A reference for the data in table 2 has been added.