Reviewer’s report

Title: In-vivo study of osseointegration in Prestige LP cervical disc prosthesis

Version: 0 Date: 14 Nov 2017

Reviewer: Andrew Yip

Reviewer's report:

In Methods: The operative motion segments were examined using microcomputed tomograph (Micro-CT) for histomorphometric quantification of trabecular bone area at the prosthesis-bone interface.

In Results: Micro-CT of the operative motion segments showed excellent osseointegration at the prosthesis-bone interface (Fig. 4 A and B).

In Fig 3, the lateral XR seems the motion segment was fused. Fig 4 A and B, it seems the motion segment was fused, with almost kissing bone growth on the left hand side of Fig 4A, likely posterior, and also on the bilateral sides on Fig 4B.

Can we have more data on the ROM of the explanted motion segment? And more data on the Micro-CT for analysis.

The bony in-growth on the porous coating should be higher if there is no motion on the implant, which acts like a fusion cage.

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.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?  
If not, please explain in your comments to the authors.

No
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.

Not relevant to this manuscript

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

Needs some language corrections before being published

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