

Name of Journal: *World Journal of Orthopaedics*

ESPS Manuscript NO: 21829

Manuscript Type: Review

Reviewer Comments

- 1.1 The review argues clearly the current issues, approaches and management of MOM hip implants. The overall manuscript is written satisfactory, fluently and understandable. I specified several arrangements in word document

Thank you for your comments. We feel that the paper highlights the key current issues and helps the reader's understanding of the subject. In line with this we felt it necessary to highlight a recent update from the MHRA (UK) regulator of medical devices.

The Manuscript now reads under section - When should patients be followed up?

"The Birmingham Hip Resurfacing (Smith & Nephew, London, UK) has been the best performing hip resurfacing, however concerns have always existed regarding their use in female patients, and patients with small diameter femoral heads (<48mm). As a result of these concerns the MHRA have released further guidance advising against their use in this population and additional advice on the management of patients with these implants in situ [64]."

- 2.1 There haven't constitute a guideline for Metal-on-Metal Hip implant patients' management. Your paper shows us some information on Metal-on-Metal Hip implant patients' management problem. Based on your paper, you can continue updating information on such point.

Thank you for your kind review of this paper. As per our reply to comment 1.1, we have provided a general review of the current concerns for Metal on Metal hip patients. We have stopped short of providing a formal guideline within this manuscript due to the lack of clear-cut evidence supporting certain management strategies. The current guidance provided by the international regulators in the UK, US and Europe would be best referred to until further evidence is published.

- 3.1 The abstract has now been updated, so that it is a minimum of 200 words, this now reads:

"The debate on how best to manage patients with metal-on-metal hip implants continues. With over 1 million patients affected worldwide, the impact is far reaching. The majority of the aggressive failures of metal-on-metal hip implants have been dealt with by revision hip surgery, leaving patients with a much more indolent pattern of failure of devices that have been in situ for more than 10 years. The longer-term outcome for such patients remains unknown, and much debate exists on how best to manage these patients. Regulatory guidance is available but remains open to interpretation due to the lack of current evidence and long-term studies.

Metal ion thresholds for concern have been suggested at 7ppb for hip resurfacing arthroplasty and below this level for large diameter total hip arthroplasties. Soft tissue changes including pseudotumours and muscle atrophy have been shown to progress, but this is not consistent. New advanced imaging techniques are helping to diagnose complications with metal hips and the reasons for failure, however these are not widely available. This has led to some centres to tackle difficult cases through multidisciplinary collaboration, for both surgical management decisions and also follow-up decisions. We summarise current evidence and consider who is at risk, when revision should be undertaken and how patients should be managed."

- 3.2 An audio core tip has now been provided as requested.

- 3.3 The referencing has now been updated as per the requirements for the World Journal of Orthopaedics.



BAISHIDENG PUBLISHING GROUP INC

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com

<http://www.wjgnet.com>

- 3.4 Figure 3 has now been updated, to these preferred images.
- 3.5 Pubmed ID and DOI's have been added to all references in the bibliography as appropriate.
- 3.6 The title page has been edited to reflect the requirements of the journal.



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