Reviewer's report

Title: Preoperative insulin sensitivity and complications after hip replacement surgery in non-diabetic patients

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Reviewer: margareta hedström

Reviewer's report:

Major compulsory revisions
This is new data and interesting findings. However there are some major concerns with the methods used in the study.
The following need to be clarified:
the "complications" measured should be described in detail: headache?, kidney problem (need to be clarified), cystitis (symptoms or positive culture?), opioid treatment (mg or ?)
Why did the authors choose these parameters? They could be a result of other factors such as blood loss, surgery related problems, pre morbidity etc.
The most frequent complications were nausea and vomiting which in fact could be due to opioid treatment, difference in blood loss as well as a result of the insulin sensitivity. This must be discussed.
It also unclear how the blood loss was estimated, probably only measured (the authors should explain how). It should be of great interest if the authors could add the calculated blood loss - there was a difference in erythrocyte transfusions between the groups but they started and ended on similar hemoglobin levels. The "complications" nausea and vomiting could be a result of a more extensive blood loss.

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: Yes, but I do not feel adequately qualified to assess the statistics.

Declaration of competing interests:
I declare that I have no competing interests