Reviewer's report

Title: Navigation of TKA: Rotation of components and clinical results in a prospectively randomized study

Version: 3 Date: 9 July 2010

Reviewer: Juan Contreras

Reviewer's report:

Discretionary Revisions

This paper has important relevance to current and future joint replacement surgery, from the perspective of the patient, the surgeon and the health care provider. However, the authors need to clarify a few minor issues:

1. “Patients with rheumatoid arthritis, history of local infections and gonarthrosis secondary to trauma were excluded.” If this is a prospective randomized study, readers need to know the selection process. Dates? Consecutive series? Exclusions?

2. Clinical outcome was assessed…by an independent observer” ; “Radiographs and CT-scans were assessed by two independent examiners” Please include a reference of the intra-observer , inter-observer variability of your study.

3. Did any of the patients experience a complication due to the insertion of the pins?

4. “Lower scores could be explained by longer incisions and operation times with navigation”…” Incisions and operation time were longer with navigation. This did not lead to more perioperative complications such as infections or bleeding, as has been reported by other authors [16].” Please clarify.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests’