Reviewer's report

Title: Fracture Surgery of the extremities with the intra-operative use of 3D-RX: A randomized multicenter trial (EF3X-trial)

Version: 1 Date: 28 March 2011

Reviewer: Graeme Jones

Reviewer's report:
This protocol is well written, easy to follow and repeatable.

Minor comments
1. The extra radiation is small but of no value to control patients. It would seem preferable to use the alternative study design outlined by the authors as one would not want practice to become 2D followed by 3D. Surely, one would want to use 3D from the start?
2. Feasibility is both uncertain as the numbers of fractures are only stated in one hospital not the other centers. Further, the number of individual orthopaedic surgeons (and their commitment to the study) are not stated.
3. Please provide refs for the rates of suboptimal fracture reduction.
4. The stats section is rudimentary and should be re-written in consultation with a statistician

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

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