Reviewer’s report

Title: Application of Ni-Ti Alloy connector for the treatment of comminuted coronal plane supracondylar-condylar femoral fractures

Version: 2 Date: 20 July 2013

Reviewer: Rajesh K Rohilla

Reviewer’s report:

Needs grammatical corrections
All comments below are major compulsory revisions
Page 4
Line 98
Eight fractures involved the lateral condyle and three involved the medial condyle. What fracture occurred in rest of ten patients.
Line 99
Five patients had fractures in the right knee 6 patients had fractures of the left Which side was involved in rest of ten patients.
Page 6
line 142
6.5mm AP screws were used in 6 patients and 4.5mm screws were used in the remaining 5 patients What was used in rest of ten patients.
Line 147
Which criteria were used to assess union
Page 7 line 181
Arthrotomyis – arthrotomy is
Page 7 line 189
We feel that either the medial parapatellar arthrotomy or direct lateral approach is appropriate,
medial parapatellar arthrotomy was used in how many patients, and direct lateral approach was used in how many patients - mention in results
Page 8 line 225
Screws fixing posterior femoral condyle fractures are usually placed through articular cartilage. The ASC can be placed at the lateral side to minimize the damage to the articular cartilage, which may reduce the development of post-traumatic arthritis. Document this with one intraoperative photograph or post-op radiograph
Page 9 line 253
ASC combined with PTCS can serve as an effective means for managing comminuted fractures of the distal femoral condyle and supracondylar region. This conclusion is not based on the study results as authors included only 33B3 fractures and not comminuted fractures of distal femoral condyle and supracondylar region. Kindly be specific about type of fracture.

Fig 3 is intraoperative photograph of supracondylar fracture, it is not type 33 B3 fracture,. Kindly insert photograph of type B3 fracture

Fig. 4 is type B1.3 fracture on the basis of radiographs. In my opinion it should have supplemental buttrees plate fixation..

The authors must provide preoperative and final follow up radiographs one more patient to make study more illustrative.

Articular reduction was evaluated on post operative xrays. Was image intensifier used? If not, what was the incidence of revision for accuracy of reduction and size of screws?

**Level of interest:** An article of importance in its field

**Quality of written English:** Needs some language corrections before being published

**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' below