Reviewer's report

**Title:** Comparison between minimally invasive, percutaneous osteosynthesis and locking plate osteosynthesis in 3- and 4-part proximal humerus fractures.

**Version:** 2  
**Date:** 13 June 2015

**Reviewer:** Babst Reto

**Reviewer's report:**

Major compulsory Revision  
In the discussion the drop out rate of > 30% should be stated as a Limitation.
Since the Distribution of the type of accident is not equal in both Groups, the median value of both Groups should be stated to have a better distinguish to two Groups and to get at least an idea of the predominated Age Group treated by each Method.

Minor Essential Revisions  
In the Abstract the type of study should be mentioned "Retrospective matched pair Analysis" as metnioned in Line 121  
Line 140 after surgery  
Line 152 ...of matched pairs with complications  
Line 166 Before the end of surgery instead of before end of the surgery  
Line 182 cut ..........off instead of away  
Line 192 after surgery instead of postsurgical  
Line 262 Even though the Autors do not consider K-wire tip Perforation as a "real" complication, a Perforation has the potential to destroy the glenoid cartilage. to prevent this in two patients the K-wires were removed, before this complication did take place  
Line 262 Implant removal rate should be statet clearly in both Groups. According to the text the implant removal rate is Zero in both Groups not considering the patients with complications.  
Line 314 serious instead of devasting since the same words are used agian in line 317  
Line 321 Humerusblock in capital letter  
Line 330 In General instead of on General  
Line 339 ....due to varus collapse which causes screw Perforation  
Line 344 .humerus head xxx to compression. This Statement is not clear. ... e.g. allows the humera head to sinter, allowing for interfragmentary compression.

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