Reviewer's report

Title: Assessment of the effects of a static magnetic field on bone healing process in rat femurs

Version: 1 Date: 21 April 2006

Reviewer: Johannes Kleinheinz

Reviewer's report:

General
Puricelli and co-workers evaluated the influence of a static magnetic field on bone healing using a defect model in the femora of Wistar rats. This subject is of interest to the whole field of bone healing including fracture healing, bone regeneration in degenerative diseases or bone augmentation. It has been discussed over a long period of time whether electro-magnetic fields have the potential for stimulation of bone healing mechanisms. The results of this study cause for intensified research in this field and to develop a practical clinical appliance.

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Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)

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Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)
The paper needs a little linguistic revision and the authors should state how they could guarantee the stability of the magnetic field during the period of investigation.

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Discretionary Revisions (which the author can choose to ignore)

What next?: Accept after minor essential revisions

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.