Reviewer's report

Title: Regeneration of Bones in Hip Osteonecrosis and Cartilage in Knee Osteoarthritis with Autologous Adipose Tissue-derived Stem Cells in Human - a series of case reports

Version: 5 Date: 22 February 2011

Reviewer: Joseph Orgel

Which of the following following best describes what type of case report this is? Other

If other, please specify:
Report of emerging disease treatment therapy

Has the case been reported coherently?: Yes

Is the case report authentic?: Yes

Is the case report ethical?: Yes

Is there any missing information that you think must be added before publication?: Yes

Is this case worth reporting?: Yes

Is the case report persuasive?: Yes

Does the case report have explanatory value?: Yes

Does the case report have diagnostic value?: No

Will the case report make a difference to clinical practice?: Yes

Is the anonymity of the patient protected?: Yes

Comments to authors:

This manuscript describes four case reports, two of bone and two of apparent cartilage regeneration from adipose stem cell auto-donation. In short, I find the presentation convincing and appropriately written. As such this represents an important, although preliminary, report and is worthy of publication. I have two minor clarifications, the first is worth citing as a minor correction requiring clarification before publication.
Page 4: "The digestive enzyme, collagenase, was then mixed..."

The authors need to be much more specific about the collagenase, what type MMP1? or bacterial and the source (e.g. expression system, purified from...). Can they also provide a rational for the use of this single enzyme?

Page 11: "Based on MRI features, it is very probable that the new tissue formation is bone matrix in the case"

should be: "Based on MRI features, it is probable that the new tissue formation is bone matrix in the case"

Quality of written English: Acceptable

Declaration of competing interests:

I own a small research and development company that might some years from now benefit from this information in its published form. I do not consider this a conflict of interest, I do not have any form of relationship with the author nor do I stand to profit (or lose) from the publication of this manuscript.