Reviewer's report

Title: Biological and biomechanical evaluation of interface reaction at conical screw-type implants

Version: 2 Date: 3 January 2006

Reviewer: serhat yalcin

Reviewer's report:

General
This is a well designed manuscript which will be helpfull for the surgeons studying implants and primary stabilisation

Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)
No major compulsory revision is needed.

Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)
1. Introduction, results, discussion, conclusion, references should be written in capital letters
2. On page 3, first paragraph, dot should be after (4,6) not before.
3. Page 4, under the title implant system, line 7: ( grooves, where as the titanium surface is smooth on a nanoscale level) No 'it' before is
4. Page 5, line 8, misspelling of 'fixture'
5. Page 5, line 10, empty space at the end of the line
6. Page 5, last paragraph, second line, 'around' its axis will be more proper, not 'about' its axis
7. Page 7, table 3 and 4 appears before 1 and 2 in the text.
8. Page 7, magnetic resonance measurement(s) (s is missing)
9. Page 7, second paragraph, first sentence: The RFM demonstrated no significant change in the resonance frequency responses during the 28 days experimental period.
10. Page 7, Removal torque (testing) : testing is missing
11. Page 7, Third sentence under the heading Removal torque: The implant stiffness (table 2), as assessed by the linear regression analysis, was higher after 7 days (0.3992±0.063) than after 28 days (0.2648±0.02257)(the number in the text and the table does not fit)
12. Page 8, line 7, no dot between fig and 6 (Fig 6)
13. Page 9, printing of 31st reference is different from the other references
14. Last sentence of page 9: Eriksson (spelling mistake), date should be 1984
15. Second line of page 10, self-tapping (spelling mistake)
16. Page 10, printing of 35th reference is different from the other references
17. Page 11-16. In the references, both full journal names (International Journal of Oral Surgery) and abbreviations (Int J Oral Maxillofac Implants) are used. It will be better to use the same form in all of them. How many author names can be written most, and when 'et al' should be used? It will be better to check that too.
18. Conclusion is quite limited. It can be more descriptive for the reader.
19. There are many spelling (author names)and quotation mistakes in the references, please check that part once again. Some of them are as follows:
of Periodontology 1988
Reference 12: A comparison between cutting torque and resonance frequency measuremants of maxillary implants.
Reference 19: ‘on’ should be separated from ‘geometry’. 4 should be in bold, 143 not bold
Reference 26: Senerby L (b is missing). Resonance frequency measurements of implant stability in vivo. A cross-sectional and longitudinal study of resonance frequency measurements on implants in the edentulous and partially dentate maxilla.
Reference 33: The effect of heat on bone regeneration: an experimental study in the rabbit using the bone growth chamber. Page number is wrong 705-711
Reference 39,40: Kahnberg KE is missing
Reference 41: Cho IH is missing. The influence of simultaneous versus delayed placement on the stability...

Discretionary Revisions (which the author can choose to ignore)
1. I think the word ‘euthanasia’ is not quite right for this study. ‘Sacrificed’ or ‘killed’ may be used.
2. Page 5, line 3, perioperatively does not sound right. Might preoperatively be used?

What next?: Accept after minor essential revisions
Level of interest: An article of importance in its field
Quality of written English: Acceptable
Statistical review: No, the manuscript does not need to be seen by a statistician.