Reviewer's report

Title: Minimal invasive surgery for unicameral bone cyst using demineralized bone matrix: a case series

Version: 3 Date: 13 June 2012

Reviewer: Takashi MATSUSHITA

Reviewer's report:

The authors studied clinical effectiveness of demineralized bone matrix as a graft material after intramedullary decompression for the treatment of unicameral bone cysts.

The manuscript was well-documented report of case series and contained excellent clinical results.

There are several points to be revised before publication.

1) Back ground, second paragraph
"Recent concern focuses on the effectiveness of closed methods in order to reduce recurrence rate or to minimize the number of procedures." (This sentence is also repeated in discussion 2nd paragraph) The meaning of this sentence is obscure.

2) Methods, first paragraph
Please describe eligible criteria of this study or clarify the indication of this surgical procedure.

3) Methods, second paragraph
Please clarify the volume determining formula: ( /6 length width height)

4) Discussion 2nd paragraph, and paragraph 6th The terms "closed methods", "minimal invasive procedure", "percutaneous injection" are rather confusing.
In paragraph 6, " Basic concept of closed method is the intramedullary decompression followed by grafting of osteogenic materials.
It would be better to restrict the terms "closed methods" only to percutaneous procedures. The procedures employed in this study seems "minimal invasive procedure guided by fluoroscopy".

5) Discussion 8th paragraph
The author discussed the advantage of making cortical windows comparing with percutaneous procedures.
In paragraph 6, and fig3., the author described insufficient DMB packing, Please discuss and present the preventive measures for this technical pitfall.

6) Discussion 9th paragraph
The author addressed the limitation of the study, please state and explore the implications of the findings for future clinical practice.

**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.