Reviewer’s report

Title: Successful treatment of pathologic femoral shaft fracture associated with large arteriovenous malformations using a 3-dimensional external fixator and teriparatide: a case report

Version: 0 Date: 30 May 2018

Reviewer: Ali Seker

Reviewer’s report:

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Please overwrite this text when adding your comments to the authors.

I reviewed the manuscript named as "Successful treatment of pathologic femoral shaft fracture associated with large arteriovenous malformations using a 3-dimensional external fixator and teriparatide: a case report". You can find my reviews as follows.

The manuscript is a case report which presents the management of a pathologic femur fracture.

Title page: Ok

Abstract: It is obvious that the authors kept the journals instructions in their mind. The text has to be checked for grammatical errors.

Keywords: Ok

Background: This part is well-written. It gives brief information about the pathology.

Case presentation: This part is very descriptive about patient's history. There are writing mistakes like "preformed" instead of "performed" in line 94. They should be corrected.

I have some concerns about patient's follow up. The authors do not give any information about their follow up protocol. Did you give any external support such as a Sarmiento like brace after the removal of the external fixator? In last radiographs the femur seems so weak and it may cause refracture. In that point i would like to ask if the mechanism of injury was a simple fall or a fall from height? If it was a simple fall that would support my concerns about refracture and i would prefer to use a brace.

Discussion and Conclusion: In that part the authors give information about AVM and the reason they used Teriparatide during fracture management. They discussed the literature. There should be a paragraph related with the time for fracture healing. The authors claimed that the femur
united in 13 months. It is too much for fracture healing and they should discuss reasons. In addition, they should clarify why they waited without any additional procedure or medication.

List of Abbreviations: Ok

Declarations: Ok

Ethics approval and consent to participate: Ok

Consent for publication: Ok

Availability of data and materials: Ok

Competing interests: Ok

Funding: Ok

Author's Contributions: Ok

Acknowledgements: Ok

References: There are 21 references and most of them are recently published but "reference 11" was published in 1984. It can be replaced with a newer one.

Figures, tables, additional files: There are five figures with multiple images (total of 17). I think this is too much for a case report and the number of figures should be reduced. There is no need to show the swelling in the thigh (Figure 2).

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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