Reviewer's report

Title: Pathologic fracture of the distal radius in a 25 year old patient with a large unicameral bone cyst.

Version: 2
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Reviewer: Giuseppe Musumeci

Reviewer's report:

I read this interesting case report titled: Pathologic fracture of the distal radius in a 25 year old patient with a large unicameral bone cyst, by Felix Massen and coauthors, presented to BMC Musculoskeletal Disorders journal.

The authors presented a first case report on a fractured, unicameral bone cyst at the distal radius. Extended diagnostics were made and revealed a pathologic, dorsally displaced, intra-articular distal radius fracture due to a unicameral bone cyst occupying almost all of the metaphysis of the distal radius. The authors chosen a single stage surgical approach using a combined dorsal and volar approach and filling of the lesion with autologous intramedullary bone graft, harvested from the ipsilateral femur using a reamer-irrigator-aspirator system. Following one revision surgery due to an intra-articular step, the patient recovered without complications and with full bony integration of the autologous bone graft. The authors conclude by stating that arthroscopically assisted fracture repair may be considered in intra-articular fractures or whenever intra-articular co-pathologies are suspected.

The work is good, well written but there are some concerns that need to be addressed before recommending publication.

First of all please re-read the text carefully, there are some careless mistakes of the English language.

Abstract:
In the background section please add the following sentence:
We herein presented to our knowledge the first case report on a fractured, unicameral bone cyst at the distal radius.

In the case presentation section please modified the second sentence more clearly.

Introduction:
Please improve this section, it is too much poor. The authors should provide more information related to bone cyst according to recent literature.

Case report:
Initial presentation and diagnostics section:
This section is actually poor. There is lack of information about patient and family medical history, risk factors and workup; even if everything is negative, the differential diagnosis with the exclusion of other diseases could be interesting. There are no details about therapy, please clarify this topic.

Histology
The authors should specify which kind of staining used. Please also add a brief description of the inclusion and staining methods used.

Discussion
In the conclusion section please add the clinical relevance of your study and some suggestions to help the scientific community in this field.

**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.

**Declaration of competing interests:**
I declare that I have no competing interests