Reviewer's report

Title: A Case of Bilateral Revision Total Knee Arthroplasty Using Distal Femoral Allograft-Prosthesis Composite and Femoral Head Allografting at the Tibial site with a Varus-valgus Constrained Prosthesis: Ten-year Follow up

Version: 0 Date: 25 Dec 2017

Reviewer: Kazunori Hino

Reviewer's report:
The authors reported a case that 10 years following bilateral revision total knee arthroplasty using distal femoral allograft-prosthesis composite and femoral head allografting at the tibial site with a constrained prosthesis.

This paper deals with an interesting case report because a few studies have reported using either massive distal femoral and proximal tibial allografts for large defect reconstruction in RTKA. Especially 10 years following the revision total knee arthroplasty using distal femoral allograft-prosthesis composite is valuable. However, I had several indications

1. The authors should explain the preoperative planning for management of bone defects visually in an easy-to-understand way.

2. The authors need to show the actual method to reconstruct large bone defects in the distal femur more clearly.

3. The authors should present the X-ray image immediately after revision total knee arthroplasty and longitudinal X-ray changes after revision-TKA.

4. The authors should summarize the previous reports of the same method and other methods for management of large bone defects in more detail.
5. The authors should discuss advantages / disadvantages including healing process, necessity of load restriction and postoperative rehabilitation when compared with other methods which including impaction bone grafts, mega prosthesis and cone & sleeve adaptation etc.

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

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

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

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:
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