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Name of Journal: *World Journal of Radiology*

ESPS Manuscript NO: 22856

Manuscript Type: Review

### RESPONSES TO EDITOR

**All revisions are marked in Red Colour in the Revised Text to highlight the additions / changes.**

#### Comment 1

Offer!

*Added in the text.*

#### Comment 2

A short running title of less than 6 words should be provided.

*Added in the text.*

#### Comment 3

Authors' full names should be given first, then the complete name of institution, country, city, province and postcode.

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#### Comment 4

All the authors' work should be given in this section.

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#### Comment 5

A conflict-of-interest statement is required for all article and study types.

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**Audio Core Tip**

*Provided with the article.*

**ESPS PEER-REVIEW REPORT 1**

**Name of journal:** World Journal of Radiology

**ESPS manuscript NO:** 22856

**Title:** Radiation sterilization of tissue allografts: A review

**Reviewer's code:** 00225366

**COMMENTS TO AUTHORS**

I cannot recommend this work for publication unless the authors added figures and tables in the paper. This is important in the submission.

*Figures (Figures 1 to 4) showing types of allograft tissues and 1 schematic diagram on types of DNA damage (Figure 5) have been added.*

## ESPS PEER-REVIEW REPORT 2

**Name of journal:** World Journal of Radiology

**ESPS manuscript NO:** 22856

**Title:** Radiation sterilization of tissue allografts: A review

**Reviewer's code:** 02446126

### COMMENTS TO AUTHORS

Radiation sterilization of tissue allografts: This review article is written very well. It was really exciting to read of how tissue allografts can be sterilized before transplantation. As described in the paper, human allogenic tissues are very useful in reconstruction surgery, but possible microbial contamination must be minimized for example by ethylene oxide, peracetic acid-ethanol sterilization procedure or by thermos-dissection. Another approach is treatment of human femoral heads by electron beams. Additional possibility of tissue sterilization represents irradiation by gamma-rays (source Cobal-60). In this review, authors provided a complex information related to mechanisms of radiation sterilization and they mentioned a possible side effects of this sterilization procedure. Because gamma irradiation is inducing single-strand or double strand breaks or CPDs, in this review article, it would be useful to add an information how DNA lesions are repaired and if some specific data on DNA damage and repair of sterilized tissues are available in the literature. Maybe, some schematic over-view of complex DNA damage and repair, published for tissue allografts or single cells should be useful for readers.

*A brief on DNA repair mechanisms has been added under the heading 'DNA Repair Mechanisms' in the section Mechanism of Radiation Sterilization (Page 12). A schematic diagram on types of DNA damage (Figure 5) has also been added as suggested.*