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ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

ESPS manuscript NO: 22856

Title: Radiation sterilization of tissue allografts: A review

Reviewer's code: 00225366

Reviewer's country: Canada

Science editor: Shui Qiu

Date sent for review: 2015-10-01 23:20

Date reviewed: 2015-10-02 04:17

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input checked="" type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
		BPG Search:	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

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.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

ESPS manuscript NO: 22856

Title: Radiation sterilization of tissue allografts: A review

Reviewer's code: 02446126

Reviewer's country: Czech Republic

Science editor: Shui Qiu

Date sent for review: 2015-10-01 23:20

Date reviewed: 2015-10-12 21:25

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> The same title	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good		<input type="checkbox"/> Duplicate publication	
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Minor revision
		BPG Search:	<input type="checkbox"/> Major revision
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input checked="" type="checkbox"/> No	

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.