

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

ESPS manuscript NO: 26907

Title: Novel concepts in radiation-induced cardiovascular disease

Reviewer's code: 00070411

Reviewer's country: China

Science editor: Fang-Fang Ji

Date sent for review: 2016-04-29 17:48

Date reviewed: 2016-05-05 12:10

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 type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Plagiarism	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		<input type="checkbox"/> No	

COMMENTS TO AUTHORS

Radiation therapy is an important component of cancer treatment. However, The clinical benefit of radiation therapy on cancer mortality is counterbalanced by an increased risk of cardiovascular events in survivors. This a review paper about the epidemiology, pathophysiolgic changes, prevention and treatment of the radiation-induced cardiovascular disease (RICVD). The author introduced the newly characterized mechanisms, novel imaging modalities and aggressive use of percutaneous interventions for RICVD, which are potential interesting. Although the review of literature is reasonably complete, there are several issues that need attention. 1. This review paper is by far too long, it should be significantly shortened. Do not review the subject extensively. Each section (section II-V) would be better to cut to ~1.5-2 pages. 2. In this review, the author just listed the data that has been reported, lacking analysis and critical discussion. 3. The authors should check the entire manuscript for spelling errors (Page 17---NK- κB and TFG-B?).

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

ESPS manuscript NO: 26907

Title: Novel concepts in radiation-induced cardiovascular disease

Reviewer's code: 00225335

Reviewer's country: Australia

Science editor: Fang-Fang Ji

Date sent for review: 2016-04-29 17:48

Date reviewed: 2016-05-21 09:58

CLASSIFICATION	LANGUAGE EVALUATION	SCIENTIFIC MISCONDUCT	CONCLUSION
<input checked="" type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" 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 type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		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

This is an excellent review of radiation-induced cardiovascular disease. I think the manuscript is acceptable for publication as is.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

ESPS manuscript NO: 26907

Title: Novel concepts in radiation-induced cardiovascular disease

Reviewer's code: 00225357

Reviewer's country: Italy

Science editor: Fang-Fang Ji

Date sent for review: 2016-04-29 17:48

Date reviewed: 2016-05-24 17:43

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"/> Grade C: A great deal of language polishing	<input type="checkbox"/> Duplicate publication	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	<input checked="" type="checkbox"/> Plagiarism	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		[Y] No	<input type="checkbox"/> Major revision
		BPG Search:	
		<input type="checkbox"/> The same title	
		<input type="checkbox"/> Duplicate publication	
		<input type="checkbox"/> Plagiarism	
		[Y] No	

COMMENTS TO AUTHORS

This is a well written, comprehensive review on the cardiovascular sequelae of life-saving treatment such as radiotherapy in LH and breast cancer. There are only minor issues that Authors should address: 1. the pathophysiology part of the manuscript is somewhat confusing and should be made more readable. Several mechanisms are proposed and a more schematic approach would help the reader. 2. A table with doses and risks for each different clinical scenarios would increase the quality of the manuscript. The most suitable technique to diagnose complications should be reported.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

ESPS manuscript NO: 26907

Title: Novel concepts in radiation-induced cardiovascular disease

Reviewer's code: 02446698

Reviewer's country: Italy

Science editor: Fang-Fang Ji

Date sent for review: 2016-04-29 17:48

Date reviewed: 2016-05-27 17:57

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

COMMENTS TO AUTHORS

This is an extensive narrative review of radiation-induced cardiovascular disease. The text is very comprehensive and covers all most important aspects of cardiovascular disease due to radiation. The topic is of paramount interest not only for the oncologist but especially for the cardiologist since, as Authors point out, radiation cardiovascular injury can appear as late as more than ten to twenty years after the radiations cycle. The pathophysiologic mechanisms of radiation injury are described with references to the most modern concepts regarding chronic inflammation and tissue fibrosis. Especially remarkable is the description of the role of free radicals and oxidative stress. References are numerous and appropriate and figures are also interesting.