

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

ESPS manuscript NO: 20199

Title: Application of positron emission tomography/computed tomography in radiation treatment planning for head and neck cancers

Reviewer's code: 02577402

Reviewer's country: China

Science editor: Yue-Li Tian

Date sent for review: 2015-06-02 18:59

Date reviewed: 2015-06-06 22:43

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 checked="" 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"/> 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		[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

The authors reviewed the application of PET-CT in radiation treatment planning for head and neck cancers. Specific comments: 1. The language needs some improvement because of some grammar mistakes and misuse of punctuations in the text, especially in the part of INTRODUCTION. 2. Key words: Please delete the word IMRT. Add the word "Imaging" as a key word because you used CT and MRI to check the cancers. 3. Abbreviations: when using abbreviations, you should give the full phrase at the first time using them. For example, computed tomography (CT). Later, you can always use the abbreviation without referring to the full phrase. However, the author did not abide by this rule. For example, what does "3D" mean in the INTRODUCTION? Another example: The authors gave the full phrase of HNC at the first sentence of the INTRODUCTION, and the authors should continue to use HNC to indicate head and neck cancer. However, the authors used HNC and "head and neck cancer" alternatively throughout the whole article. Please check the whole article and correct all similar problems. 4. Use subheadings to divide the article into some more detailed parts so that the readers will be able to understand well. For example, the part of "Delineation of the



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primary and lymph nodal GTV" is extremely long and is very confusing. Please divide it into some subheadings for detailed description or simplify it. 5. The structure of the article is not well arranged and seems confusing. Please rearrange the whole article structure in a clear and simplified way. There are only 51 references but the article reads very difficult. Some well-written reviews may have hundreds of references but have a clear and simplified structure.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Radiology

ESPS manuscript NO: 20199

Title: Application of positron emission tomography/computed tomography in radiation treatment planning for head and neck cancers

Reviewer's code: 02520041

Reviewer's country: United States

Science editor: Yue-Li Tian

Date sent for review: 2015-06-02 18:59

Date reviewed: 2015-06-05 04:11

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 type="checkbox"/> Plagiarism	<input checked="" type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input checked="" 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 checked="" type="checkbox"/> No	

COMMENTS TO AUTHORS

Reviewer's comments: In this work, authors reviewed the application of PET-CT in radiotherapy planning for head and neck cancers from several different perspectives: primary gross tumor volume delineation, involved metastatic lymph nodes, management of unknown primary, dental artifact and high-risk post-operative radiotherapy. Generally, the work provides a useful review. Major critics: 1) In this work, issue of dental artifact was reviewed. Unfortunately, other artifacts affecting image quality and delineation of targets were not discussed. It would be helpful to expand this section to include a more comprehensive review of imaging artifacts. 2) In this work, various new radioisotopes and radiotracers along with PET-MRI were discussed as future directions. It would be useful to highlight the values and potentials of other technical advances such as TOF PET, 4D PET. Minor critics: 1) Image quality of several figures shall be improved, such as Fig. 6. 2) The term "EUA" in the abstract section shall be spelled out.