

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 62802

Title: Positron emission tomography and magnetic resonance imaging combined with computed tomography in tumor volume delineation: A case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05516874

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2021-02-01

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-06-19 10:06

Reviewer performed review: 2021-06-21 20:49

Review time: 2 Days and 10 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Peer-reviewer
statements**

Peer-Review: [☒] Anonymous [☐] Onymous

Conflicts-of-Interest: [☐] Yes [☒] No

SPECIFIC COMMENTS TO AUTHORS

As explained by the authors most radiotherapy plans are based on computed tomography (CT), as CT images alone can no longer meet the treatment needs. On that reason authors fused CT with magnetic resonance imaging (MRI) and positron emission tomography (PET) to overcome the shortcomings of simple CT. Authors present a clinical case delineating the tumor volume of hypopharyngeal cancer, with a combined MRI-CT and PET-CT fusion images. They analyze if the respective advantages of the two combined procedures could give full play to make the tumor volume cover more comprehensively and accurately. In general, is a useful and well performed case report description. However, some minor details need to be resolved. Pleased, Include the word “case report” in keywords. Authors mentioned in the conclusion section, that “The image fusion of MRI-CT and PET-CT has both advantages and disadvantages” and they mentioned advantages but any disadvantages. Can the authors mention some disadvantage of this approach? Can the authors expand some details about interpretation of the tumor in the selected images? The information provide is not enough for people not related with the field. Explain better meaning of red lines, and other details of the image.