

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastroenterology*

Manuscript NO: 73485

Title: The impact of radiotherapy on the immune landscape in oesophageal adenocarcinoma

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05872759

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Ireland

Manuscript submission date: 2021-12-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-12 12:02

Reviewer performed review: 2021-12-24 17:06

Review time: 12 Days and 5 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 Grade E: Do not publish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

The authors propose an interesting study exploring the role of hypofractionation and immunotherapy in oesophageal adenocarcinoma. The results of this study provide a preclinical basis for randomised trials using hypofractionated treatment schedules and/or adding immunotherapy to conventional radiochemotherapy. The only useful addition, for future clinical use of the study results, is to discuss the possible patient toxicity scenarios of a hypofractionated approach + concomitant immunotherapy.

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Peer-review model: Single blind

Reviewer's code: 03767590

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: Ireland

Manuscript submission date: 2021-12-03

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-25 23:19

Reviewer performed review: 2021-12-31 06:23

Review time: 5 Days and 7 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous
	Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No

SPECIFIC COMMENTS TO AUTHORS

In the present manuscript, Donlon et al. evaluated the immunologic effect of hypofractionated radiotherapy in oesophageal adenocarcinoma. English in this paper is well written, and experiments are very well described. The figures are of quality and data are exposed in a clear manner. Specific major concerns: In the Figure 2, these experiments should be performed in the OAC xenograft model instead of cell lines because the anticancer effect of ICI is induced in the situation of the presence of CD8+ T cells. What is the scientific rationale in the experimental design? If the experimental design in Figure 2 has a scientific rationale, what mechanisms might explain the induction of anti-cancer efficacy of the combined RT and ICI in an experimental system without CD8+ T cell? Some minor concerns: Can you provide the original dot plots of Flow cytometry in Figure 1?