Reviewer's report

Title: Relationship Between the Invasion of Lymphocytes and Cytokines in the Tumor Microenvironment and the Interval After Single Brachytherapy Hypofractionated Radiotherapy and Conventional Fractionation Radiotherapy in Non-Small Cell Lung Cancer

Version: 0 Date: 19 May 2020

Reviewer's report:

1. Title - correct the spelling of 'radiotherapy'.
2. Abstract - background - line 1 - end with a period.
3. Check other such small typos, grammatical, spelling, capitalization, punctuation, spacing errors throughout manuscript, which are plenty.
4. Please include any specific justification (citing refs. if any) why the particular time-points were chosen for the various methods (e.g. days 7 and 14 for micro-PET/CT, max. and min. diameters of tumors measured every 2 days from the 12th day after inoculation until the 14th day after radiation, etc.)? Could there be different findings at intermediate or further time-points?
5. How many repeat trials/replicates were performed for each method and for the statistical analyses? Were all results consistent across all replicates? This is important to ensure reproducibility.
6. The sample sizes used seem to be low. Please provide better sample size or justify the ones used.
7. Were any other animal strains tested? Else, how could you predict the generalizability of the data?
8. Please include any limitations as well as recommend future directions of the study.
9. Figures 2, 3 - please use scale bars as appropriate, and need to increase figure resolutions optimally (seems quite blurry even when magnified).
10. Fig. 1 legend - please explain a bit more for non-expert readers.
11. In background, please provide the basics (definition, fundamental concept, significance, etc.) of the pertinent strategies like radiotherapy, CFRT, SBRT, stereotactic radiosurgery, hypofractionated radiotherapy, SBHFRT, and so on (supported by suitable refs.) to make the work understandable and of interest by non-experts in the field.
12. Fig. 3 - better to use lines, labels, etc. to distinguish the 3 panels (and 2 rows) for A, and similarly for B, C, D.
13. Ref. #18 and "abstract" - remove highlights.
14. Remove vertical lines on left (e.g. on pages 5, 11, 12, 18, 21).

Thank you.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.
Yes

**Are the conclusions drawn adequately supported by the data shown?**
If not, please explain in your comments to the authors.

Yes

**Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?**
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I recommend additional statistical review

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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