Reviewer’s report

Title: Comparative evaluation of image registration methods with different interest regions in lung cancer radiotherapy

Version: 1 Date: 07 Nov 2019

Reviewer: Reviewer 2

Reviewer's report:

PEER REVIEWER ASSESSMENTS:

OBJECTIVE - Full research articles: is there a clear objective that addresses a testable research question(s) (brief or other article types: is there a clear objective)?
No - there are minor issues

DESIGN - Is the current approach (including controls and analysis protocols) appropriate for the objective?
Not sure - key details are missing from the manuscript

EXECUTION - Are the experiments and analyses performed with technical rigor to allow confidence in the results?
Yes - experiments and analyses were performed appropriately

STATISTICS - Is the use of statistics in the manuscript appropriate?
No - there are issues with the statistics in the study

INTERPRETATION - Is the current interpretation/discussion of the results reasonable and not overstated?
N/A - no results to interpret

OVERALL MANUSCRIPT POTENTIAL - Is the current version of this work technically sound? If not, can revisions be made to make the work technically sound?
Maybe - with major revisions

PEER REVIEWER COMMENTS:

GENERAL COMMENTS:
I have reviewed the manuscript titled "Comparative evaluation of image registration methods with different interest regions in lung cancer radiotherapy".
First of all; congratulation for the hard work.
however; there are some inconvenient parts of the study after reviewing with two authors.

REQUESTED REVISIONS:
first; what are the patients tumor characteristics (adeno, small or squamous), what is the radiotherapy, is it palliative or curative, are there any patients that drop-our from the study, are there any toxicities related to this registration method, how they picked up their cases, these are random cases or all cases
of the center. Also the authors did not give any information about patients tumor characteristics, how many patients cancer were dangerously near to important organs? we don't know. So without clear patient characteristics and clear answer to what and why; we could not drive any important conclusion from this study. Also the aim of this study is not clear. Make sure to communicate a clear objective and provide data to support this objective.

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.

No

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

Unable to assess

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 am able to assess the statistics

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

Acceptable

Declaration of competing interests
Please complete a declaration of competing interests, considering the following questions:

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