Reviewer’s report

Title: Preliminary application of 3.0T magnetic resonance chemical exchange saturation transfer imaging in brain metastasis of lung cancer

Version: 1 Date: 19 Sep 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)?

Yes - there is a clear objective

DESIGN - Is the current approach (including controls and analysis protocols) appropriate for the objective?

Yes - the approach is appropriate

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?

Yes - appropriate statistical analyses have been used in the study

INTERPRETATION - Is the current interpretation/discussion of the results reasonable and not overstated?

No - there are major issues
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:

The study has an interesting design.

The question to differentiate metastasis in the brain from other tumors is of great clinical importance.

Unfortunately the manuscript is very badly written.

Every sentence needs detailed editing.

In the conclusion it is not clear, whether CEST is a good method to differentiate the tumor forms.

REQUESTED REVISIONS:

The text needs detailed editing of every sentence. The conclusion should be modified to make the result more clear to the reader. It is difficult for me to make detailed comments about the methods and designs before edits are made to the manuscript.

Images should be presented in colors.

Arrows should be added to the pictures, explaining the carried information to the reader with reference in the description of the figure.

A description of the image is necessary, for example: Axial view of the human scull..

ADDITIONAL REQUESTS/SUGGESTIONS:

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

Yes

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.

No

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:

Needs some language corrections before being published

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

1. Have you in the past five years received reimbursements, fees, funding, or salary from an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

2. Do you hold any stocks or shares in an organisation that may in any way gain or lose financially from the publication of this manuscript, either now or in the future?

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