Reviewer’s report

Title: Measuring liver fat fraction with complex-based chemical shift MRI: the effect of simplified sampling protocols on accuracy

Version: 0 Date: 16 Nov 2018

Reviewer: Hussam Ali

Reviewer's report:

A protocol is presented for the ROI selection and estimation of %FF in Non-alcoholic fatty liver disease (NAFLD) from MRI images. Here are some suggestion to improve the quality of this paper.

--The paper is well-written however, the paper lacks performance comparisons with previous methods.

--The main contributions of this paper are not highlighted. Authors should describe the contributions of this article in form of bullet points.

--Authors should update the background section with recent work from 2017 and 2018.

--Authors can add a flow diagram to give a graphical view of proposed method.

--References should be in a proper format (according to journal's guidelines)

--Quality of figures should be improved some places text is barely readable.

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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