Reviewer's report

Title: Liver injury monitoring, fibrosis staging and inflammation grading using T1rho magnetic resonance imaging: An experimental study in rats with carbon tetrachloride intoxication

Version: 2 Date: 11 Oct 2019

Reviewer: Tianyi Ren

Reviewer's report:

1. T1rho MR imaging has already been widely studied in human. Authors should explain more about the necessity of using the rat model in the present study. Other rat models for liver fibrosis (such as BDL model) should be mentioned in the discussion part. Differences between animal fibrotic models and human liver fibrosis should be discussed.

2. Authors should provide detailed serological data of these rats, at least information about inflammation activities, and analyze correlation between inflammatory indexes and T1rho results.

3. Find better staining pictures.

4. Figure 1 contains 110 rats.

5. Typing errors.

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.

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

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