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PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 75350

Title: How to Select The Quantitative Magnetic Resonance Technique for Subjects With Fatty Liver: A Systematic Review

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03674832
Position: Editorial Board
Academic degree: MD, PhD
Professional title: Professor
Reviewer's Country/Territory: Greece
Author's Country/Territory: China

Manuscript submission date: 2022-01-25

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-11 13:54

Reviewer performed review: 2022-04-11 15:40

Review time: 1 Hour

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Evaluation of the paper 75350-Manuscript "How to Select The Quantitative Magnetic Resonance Technique for subjects With Fatty Liver: A Systematic Review". The aim of this study was to contribute to the selection of the quantitative MRI for patients with fatty liver. The authors conclude that proton density fat fraction derived from multiple-point Dixon imaging is a noninvasive method for accurate, quantitative measurement of the hepatic fat content. It can be used to diagnose the fatty liver and follow up the progression of the disease and treatment effect. Comments 1. This is a well written paper on a very interesting issue: the selection of the appropriate MRI method to diagnose and follow-up the progression of fatty liver. 2. The text, the tables, and the figure are satisfactory and informative. 3. References are up-to-date, however the following references might improve the paper: - Zheng D, Guo Z, Schroder PM, Zheng Z, Lu Y, Gu J, He X. Accuracy of MR Imaging and MR Spectroscopy for Detection and Quantification of Hepatic Steatosis in Living Liver Donors: A Meta-Analysis. Radiology. 2017 Jan;282(1):92-102. Doi: 10.1148/radiol. 2016152571. Epub 2016 Aug 1. PMID: 27479639. - Springer F, Machann J, Schwenzer NF, Ballweg V, Würslin C, Schneider JH, Fritsche A, Claussen CD, Schick F. Quantitative assessment of intrahepatic lipids using fat-selective imaging with spectral-spatial excitation and in-/opposed-phase gradient echo imaging techniques within a study population of extremely obese patients: feasibility on a short, wide-bore MR scanner. Invest Radiol. 2010 Aug;45(8):484-90. Doi: 10.1097/ RLI.0b013e3181df2afb. PMID: 20479651. 4. The results of the paper have clinical implications and are very useful for patients with fatty liver.

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Title: How to Select The Quantitative Magnetic Resonance Technique for Subjects With Fatty Liver: A Systematic Review

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 01805500
Position: Editorial Board
Academic degree: CCST, MD

Professional title: Adjunct Professor, Professor, Research Scientist, Senior Researcher, Senior Scientist, Teacher

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2022-01-25

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-15 10:10

Reviewer performed review: 2022-04-15 12:21

Review time: 2 Hours

Scientific quality	[ ] Grade A: Excellent [ ] Grade B: Very good [Y] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection

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Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Authors should point out the following points: Hepatologists need those studies to be conducted with longer follow up and thus evaluating the costs in case of repeated exams and at different stages of a patient's journey – for example in primary care, secondary care, and tertiary care. Furthermore, it is necessary to put these techniques in correct settings , i. e., epidemiological studies or in the field of research. Finally, the rationale to use these expensive and "requiring high expertise" tools is mainly based on assessing the efficacy of therapy, more than ascertain the presence of NAFLD, at the light that there are many drugs on the pipeline, as evident in.....Insights into the molecular targets and emerging pharmacotherapeutic interventions for nonalcoholic fatty liver disease, Metabolism,Volume 126,2022,154925,ISSN 0026-0495,https://doi.org/10.1016/j.metabol.2021.154925.

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Title: How to Select The Quantitative Magnetic Resonance Technique for Subjects With Fatty Liver: A Systematic Review

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03769070
Position: Editorial Board
Academic degree: PhD
Professional title: Professor
Reviewer's Country/Territory: Brazil
Author's Country/Territory: China

Manuscript submission date: 2022-01-25

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-04-12 16:58

Reviewer performed review: 2022-04-25 03:14

Review time: 12 Days and 10 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[Y] Grade A: Priority publishing [ ] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No

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Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Manuscript ID: 75350 Manuscript Title: How to Select The Quantitative Magnetic Resonance Technique for subjects With Fatty Liver: A Systematic Review This systematic review is interesting and has applicability in medicine. Therefore, to contribute to its improvement, some suggestions are proposed: 1. There are some problems with the structure and formatting of the manuscript, please see the "Guidelines for Manuscript Preparation and Submission: Systematic Reviews": • According to the rules of the Journal the manuscript must be prepared using the Book Antigua font. The topics METHODS, RESULTS and CONCLUSION present number of words discrepant from the Journal rules. • The authors' ORCID should be provided. • The coretip is present in "Manuscript information" but not in the text of the manuscript. • There is no request for abbreviations in the manuscript structure. • Correct the double "T" in "Ttwo-point Dixon imaging" keyword. • The word "Figure" should not be abbreviated (e.g. Figure 1 and not Fig. 1), see RESULTS. • Subtopics should not be numbered. • Figure 2 has low quality and Tables 1-3 are formatted outside Journal rules. Tables 1-3 could not be carefully analyzed because they are too large and unconfigured. 2.During the analyses data about the country where the study was performed were collected. Why were these data collected and what would be relevant to the study?