

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 58350

Title: Maple syrup urine disease – brain magnetic resonance imaging findings and radiologic review: Three case reports

Reviewer's code: 04025443

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor, Senior Researcher

Reviewer's Country/Territory: Russia

Author's Country/Territory: China

Manuscript submission date: 2020-07-18

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2020-11-13 04:49

Reviewer performed review: 2020-11-13 13:59

Review time: 9 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Thank you for the opportunity to review the manuscript. I read with interest the paper by Li Y et al, which is a description of three cases of patients with Maple Syrup Urine Disease. The paper is predominantly concentrated on radiological findings in patients with this rare disorder, and may be of interest to wide spectrum of readers (pediatricians, radiologists). The paper is well-written and I have only a few minor comments. I feel that the title of the paper needs revision, as a mention of a "review" may mislead potential readers. I would suggest "Maple Syrup Urine Disease: case reports of brain MRI findings", for example. If possible, please, consider providing more keywords ("case report" "brain imaging") to make the paper more visible by search engines. There is a lack of description of methods used to obtain images, provided in the paper. In general, minimum information on device manufacturer and a model used (optional - characteristics of possible magnetic field), imaging regimen are required. The manuscript is well-illustrated, though table 1 needs size and font corrections. The authors provided structured and detailed discussion, however I would suggest to highlight specific matters that, in my opinion, could make the paper much interesting by providing practical approach: a) how often brain (MR) imaging is used for diagnosis of the condition now? b) is it possible to provide a possible algorithm of actions - which patient is eligible for brain MRI and when this examination should be performed c) which of the specific MRI features should be taken into the account? d) whether it is necessary to provide MRI follow-up, and when? Is it possible to provide more details about the cases? How did the brain imaging influenced the disease flow? Please, consider revision of the conclusions according to the aim of the paper (may be - global prevalence of MSUD, possible outcomes and characteristic MRI features of MSUD...). Language polishing is recommended, several typos are noted (page 10 - "This result



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indicates that the classic form of MSUD has typical imaging manifestations, and the 4 cases we reported are the same, which strongly supports the theory we mentioned above" (4 cases?), page 11 - conclusion, page 1 - abstract, etc). Please, provide normal ranges of the mentioned laboratory markers, as they may differ depending on reactives' manufacturer and the method of detection. I feel that the mentioned flaws are easy to fix. In case substantial changes are made, the manuscript may be recommended for publishing.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Author's Country/Territory: China

Manuscript submission date: 2020-07-18

Reviewer chosen by: Chen-Chen Gao

Reviewer accepted review: 2020-12-14 05:21

Reviewer performed review: 2020-12-14 10:33

Review time: 5 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Congratulations to the authors with the great job done. All the matters raised in the previous review were answered. The paper has been improved significantly.