

PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 65396

Title: Therapeutic plasma exchange in liver failure

Reviewer's code: 02731621

Position: Editorial Board

Academic degree: FEBS, MD

Professional title: Associate Professor, Lecturer, Surgeon

Reviewer's Country/Territory: Turkey

Author's Country/Territory: United States

Manuscript submission date: 2021-03-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-18 13:30

Reviewer performed review: 2021-03-20 16:26

Review time: 2 Days and 2 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 Grade E: Do not publish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
Re-review	<input type="checkbox"/> Yes <input checked="" 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

The manuscript entitled “Therapeutic Plasma Exchange in Liver Failure” is a comprehensive and well written review.

PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 65396

Title: Therapeutic plasma exchange in liver failure

Reviewer's code: 03446972

Position: Peer Reviewer

Academic degree: MD

Professional title: Chief Physician, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2021-03-07

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-03-15 10:36

Reviewer performed review: 2021-03-22 06:06

Review time: 6 Days and 19 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 Grade E: Do not publish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
Re-review	<input type="checkbox"/> Yes <input checked="" 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



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SPECIFIC COMMENTS TO AUTHORS

In this manuscript of Abimbola Chris-Olaiya, et al, authors discussed efficacy and technical considerations of TPE in both acute and acute-on-chronic liver failure. It is controversial whether ALF of ACLF patients can benefit from OS by TPE and more RCT are still needed to supply clinical poofs. This manuscript is helpful in knowing the development of TPE for readers. It was well written and I recommend this paper to be published on WJG.

PEER-REVIEW REPORT

Name of journal: World Journal of Hepatology

Manuscript NO: 65396

Title: Therapeutic plasma exchange in liver failure

Reviewer's code: 05242826

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Slovakia

Author's Country/Territory: United States

Manuscript submission date: 2021-03-07

Reviewer chosen by: Man Liu

Reviewer accepted review: 2021-03-17 13:17

Reviewer performed review: 2021-03-24 12:54

Review time: 6 Days and 23 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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

1) The manuscript is a narrative review of the current state of the art in therapeutic plasma exchange in patients with acute and acute-on-chronic liver failure. 2) The manuscript mainly evaluates the efficacy of TPE in these clinical scenarios, however, this type of review (narrative) is not adequate for the purpose. A formal systematic review according to PRISMA checklist would be more appropriate - see World J Gastroenterol. 2020 Jan 14; 26(2): 219-245. Published online 2020 Jan 14. doi: 10.3748/wjg.v26.i2.219

3) In the introduction there is an attempt to compare TPE with ECAD - this is very interesting topic, but the main point of the paragraph is wrong. Citing: "The theoretical advantage of TPE over ECAD hinges on the exchange of plasma, which replaces plasma factors that are lacking as a result of impaired hepatic synthetic function in both ALF and ACLF". However the main advantage of TPE is the removal of large proteins - cytokines and immunoglobulins (60-70% reduction) where MARS has a technical limit of 50-60 kDa based on the membrane). It would be useful to more thoroughly compare the two methods. 4) 1st line on page 9 is unclear - what is one plasma volume? 5) organisation of the manuscript is confounding. Outcomes and results of the same study are reported in different sections (outcomes and technical aspects) Technical aspects section should contain only options how to perform TPE with the reference to the outcomes section 6) No mention about TPE in acute alcoholic hepatitis is present. These are the majority of patients with ACLF where TPE is considered.