

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 45703

Title: Therapeutic plasma exchange and a double plasma molecular absorption system in the treatment of thyroid storm with severe liver injury: A case report

Reviewer's code: 02544416

Reviewer's country: Serbia

Science editor: Fang-Fang Ji

Date sent for review: 2019-01-18

Date reviewed: 2019-01-19

Review time: 16 Hours, 1 Day

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input checked="" type="checkbox"/> Major revision	<input checked="" type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The manuscript is in general very interesting and instructive. But I have several comments in order to improve the quality of the manuscript. 1. The title should be changed, because the liver lesion is caused by combination of autoimmune and



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hyperthyroidism-induced liver injury 2. The introduction should be complement with more data, or at least the discussion with more data regarding PE and treating of liver disease 3. The case report should be presented with more details: a. Alkaline phosphatase and GGT levels are not mentioned b. Taking into account that AST>ALT, MCV levels should be mentioned and clearly state that alcohol abuse was excluded c. Previously and not in the end should be mentioned that viral hepatitis was excluded d. Did the patient have a history of liver disease? e. It should be stated that drug and herbal induced liver injury are excluded, as well f. Ultrasonography of the thyroid gland was mentioned, but not result of an abdominal ultrasonography examination g. Are infections by culturing are excluded as a possible cause of fever?

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

BPG Search:

- ☐ The same title
- ☐ Duplicate publication
- ☐ Plagiarism
- ☐ [Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 45703

Title: Therapeutic plasma exchange and a double plasma molecular absorption system in the treatment of thyroid storm with severe liver injury: A case report

Reviewer's code: 00006208

Reviewer's country: France

Science editor: Fang-Fang Ji

Date sent for review: 2019-01-18

Date reviewed: 2019-01-20

Review time: 14 Hours, 2 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
<input checked="" type="checkbox"/> Grade B: Very good	<input checked="" type="checkbox"/> Grade B: Minor language	(High priority)	<input checked="" type="checkbox"/> Anonymous
<input type="checkbox"/> Grade C: Good	polishing	<input checked="" type="checkbox"/> Accept	<input type="checkbox"/> Onymous
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade C: A great deal of	(General priority)	Peer-reviewer's expertise on the
<input type="checkbox"/> Grade E: Do not	language polishing	<input type="checkbox"/> Minor revision	topic of the manuscript:
publish	<input type="checkbox"/> Grade D: Rejection	<input type="checkbox"/> Major revision	<input type="checkbox"/> Advanced
		<input type="checkbox"/> Rejection	<input checked="" type="checkbox"/> General
			<input type="checkbox"/> No expertise
			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

The thyroid storm resistant to conventional treatments and requiring therapeutic alternatives like plasma exchange is exceptional and the experience of the literature comes down to case reports The clinical case presented by the authors is -original: to my



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knowledge there is no data in the literature about DPMAS in this indication and this treatment proposal is innovative -the case is well written, -and well documented, -the distinction between the role of thyroid storm in liver injury and an associated autoimmune hepatitis is well argued Some points of discussion could be reinforced in order to highlight the benefit of the association of PE and DPMAS Plasma exchange (PE) is a non-selective apheresis technique for the rapid purification of high molecular weight pathogens. It is not free of problems that it would be important to emphasize : - - The need to use alternative solutes such as human albumin and fresh frozen plasma to compensate for plasma extraction, the availability of which is limited - - Plasma exchange is adapted for 5 l of blood; the diffusion space of the T3 being approximately 30 to 40 l, the efficiency is therefore limited and transient. - Moreover, in case of cardiopathy, control of the hemodynamic state is very difficult during plasmapheresis; PE is therefore discussed in severe hyperthyroidism Conversely, a PE treatment before DPMAS can improve the adverse effects of DPMAS on blood coagulation function and albumin levels. It would be useful to argue the previous experiences of mixed treatments in hepatology For example, TPE and DPMAS were similar in improving 12-week survivals in HBV-ACLF in hepatitis B virus-infected acute-on-chronic liver failure treated by entecavir PMID: 28304106 and or PMID: 30481880 Finally, it would have been interesting to have a longer-term evolution of the patient after her relapse and how the different drugs withdrawal took place, in particular to clarify the respective roles of hyperthyroidism and potential underlying AIH, in the pathophysiology of hepatic failure. In conclusion, this new approach mainly published by the Chinese teams in the context of acute liver failure should be spread in other countries

INITIAL REVIEW OF THE MANUSCRIPT

Google Search:



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- [Y] No

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- ☐ Plagiarism
- [Y] No

PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 45703

Title: Therapeutic plasma exchange and a double plasma molecular absorption system in the treatment of thyroid storm with severe liver injury: A case report

Reviewer's code: 02627036

Reviewer's country: Romania

Science editor: Fang-Fang Ji

Date sent for review: 2019-01-14

Date reviewed: 2019-01-21

Review time: 21 Hours, 7 Days

SCIENTIFIC QUALITY	LANGUAGE QUALITY	CONCLUSION	PEER-REVIEWER STATEMENTS
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	<input type="checkbox"/> Accept	Peer-Review:
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			Conflicts-of-Interest:
			<input type="checkbox"/> Yes
			<input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

1.Please put the normal values for table 1; 2.Why immune hepatitis? 3.After 22 days, all symptoms disappeared (PLEASE DETAIL), liver function returned to normal (PLEASE DETAIL), and the hyperthyroidism index was restored (PLEASE DETAIL). 4.On the



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fourth in hospital day, fever, palpitation, and other symptoms occurred (PLEASE DETAIL). 5. In conclusion, we report a case of severe hepatic failure (PLEASE DETAIL) in a patient with severe hyperthyroidism (PLEASE DETAIL) and hyperthyroidism storm (PLEASE DETAIL). The liver histopathology suggests that the immune damage was caused by hyperthyroidism (PLEASE DETAIL). This patient was treated with PE combined with DPMAS and achieved a good curative effect (PLEASE DETAIL). This novel therapeutic combination may be worth popularizing.

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BPG Search:

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- ☐ No