

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Experimental Medicine

ESPS manuscript NO: 9135

Title: Biochemical Markers of Oxidative Stress and Labile Plasmatic Iron Content in Anemic Patients Following Therapy with Repeated Blood Transfusions

Reviewer code: 00482024

Science editor: Ling-Ling Wen

Date sent for review: 2014-01-23 22:23

Date reviewed: 2014-02-28 00:11

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> Accept
<input type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input checked="" type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input checked="" type="checkbox"/> Grade D: Fair		BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor	<input type="checkbox"/> Grade D: Rejected	<input type="checkbox"/> Existing	<input checked="" type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The theme of this paper is a noteworthy one in that it is known that oxidative stress is a problem in premature infants who are subjected to a multitude of blood transfusions, but it is unknown what, if any, this scenario would have in adults. The authors used adequate methods to address their research question, but by using plasma they are not examining the tissue where oxidative damage occurs (e.g., arterial lining, liver, etc). Existing literature linking the observed levels of the various biomarkers to health outcomes such as heart attacks and stroke would strengthen the paper. The fact that ferritin levels increase in the group where there is a greater oxidative stress environment is not congruent with the hypothesis. The authors also must address how transfusions can cause stress apart from the iron levels.

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Name of journal: World Journal of Experimental Medicine

ESPS manuscript NO: 9135

Title: Biochemical Markers of Oxidative Stress and Labile Plasmatic Iron Content in Anemic Patients Following Therapy with Repeated Blood Transfusions

Reviewer code: 00035901

Science editor: Ling-Ling Wen

Date sent for review: 2014-01-23 22:23

Date reviewed: 2014-04-20 21:36

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input checked="" type="checkbox"/> Grade A: Priority publishing	Google Search:	<input checked="" type="checkbox"/> Accept
<input checked="" type="checkbox"/> Grade B: Very good	<input type="checkbox"/> Grade B: Minor language polishing	<input type="checkbox"/> Existing	<input type="checkbox"/> High priority for publication
<input type="checkbox"/> Grade C: Good	<input type="checkbox"/> Grade C: A great deal of language polishing	<input type="checkbox"/> No records	<input type="checkbox"/> Rejection
<input type="checkbox"/> Grade D: Fair	<input type="checkbox"/> Grade D: Rejected	BPG Search:	<input type="checkbox"/> Minor revision
<input type="checkbox"/> Grade E: Poor		<input type="checkbox"/> Existing	<input type="checkbox"/> Major revision
		<input type="checkbox"/> No records	

COMMENTS TO AUTHORS

The authors demonstrated the involvement of oxidative stress in patients following therapy with repeated blood transfusions. Additionally they found that the changes in the oxidative stress markers are tightly correlated with labile plasmatic iron, ferritin and the number of transfusions. This study was well-organized and well-investigated. I have no claim in the present manuscript.

ESPS PEER REVIEW REPORT

Name of journal: World Journal of Experimental Medicine

ESPS manuscript NO: 9135

Title: Biochemical Markers of Oxidative Stress and Labile Plasmatic Iron Content in Anemic Patients Following Therapy with Repeated Blood Transfusions

Reviewer code: 00043980

Science editor: Ling-Ling Wen

Date sent for review: 2014-01-23 22:23

Date reviewed: 2014-05-14 01:04

CLASSIFICATION	LANGUAGE EVALUATION	RECOMMENDATION	CONCLUSION
<input type="checkbox"/> Grade A: Excellent	<input type="checkbox"/> Grade A: Priority publishing	Google Search:	<input type="checkbox"/> [Y] Accept
<input type="checkbox"/> [Y] Grade B: Very good	<input type="checkbox"/> [Y] Grade B: Minor language polishing	<input type="checkbox"/> [] Existing	<input type="checkbox"/> [] High priority for publication
<input type="checkbox"/> [] Grade C: Good	<input type="checkbox"/> [] Grade C: A great deal of language polishing	<input type="checkbox"/> [] No records	<input type="checkbox"/> [] Rejection
<input type="checkbox"/> [] Grade D: Fair	<input type="checkbox"/> [] Grade D: Rejected	BPG Search:	<input type="checkbox"/> [] Minor revision
<input type="checkbox"/> [] Grade E: Poor		<input type="checkbox"/> [] Existing	<input type="checkbox"/> [] Major revision
		<input type="checkbox"/> [] No records	

COMMENTS TO AUTHORS

We have carefully evaluated this new manuscript. **MAJOR COMMENTS:** 1) The methods describing how the various materials are determined are not correctly referenced. 2) The results section is succinct, yet comprehensive. Further attention to the final paragraph of the results should be made as it is somewhat difficult to follow and the summary sentences are unclear. 3) The discussion is well written and points out the experiment's interesting findings and the implications for medical practice. **MINOR COMMENTS:** Page 2, line 3: It should read "however, in excess it can be a major cause..." Page 2, line 5: Add an apostrophe to enzymes prior to activity to make it possessive. Page 3, line 3: Change "capacity" to "ability to" Page 3, line 7: Change "permeate" to "permeating" Page 3, line 17: This sentence is not worded well, suggest rewriting. Particularly "it was pointed" is unclear in the sentence. Page 3, line 22: Change "increases" to "increase" Page 4, line 17: Change "no transfused" to "not transfused" Page 4, line 17-18: The last part of this sentence is not worded well, suggest rewriting. Also would add "levels" between "ferritin" and "in" (line 17). Page 5, line 3: Add "well as" between "as" and "healthy" Page 5, line 5: Change "do not presented" to "did not present" Page 5, line 6-11: These sentences are not worded well and are unclear, suggest rewriting. Page 5, line 13: Delete "up" between "five" and "to" Page 6, line 9: When including a reference for how a material was determined the name from the reference must be included in the sentence.* For example, "Content ferritin was determined as described by Bernard and Lauwerys [20]." Page 6, line

10: Add apostrophe to "particles" before "agglutination" (in line 11) to make it possessive Page 6, line 15: When including a reference for how a material was determined the name from the reference must be included in the sentence. See *asterisk above for example. Page 6, line 16: Add "to" between "added" and "0.2 mL" Page 6, line 17-19: This sentence is not worded well, suggest rewriting. Page 6, line 21: Should the sentence be written in future tense? It says "will be done". Suspect should be in past tense. Page 7, line 8: When including a reference for how a material was determined the name from the reference must be included in the sentence. See *asterisk above for example. Page 7, line 18: When including a reference for how a material was determined the name from the reference must be included in the sentence. See *asterisk above for example. Page 7, line 22: Add "by a" between "measured" and "spectrophotometer". Change "during 2 min" to "for a duration of 2 min". Page 8, line 3: When including a reference for how a material was determined the name from the reference must be included in the sentence. See *asterisk above for example. Page 8, line 23: Change "on Table I" to "in Table I" Page 8, line 25: Change "none" to "no" Page 8, line 26: Change "was" to "were" as discussing LPI and ferritin Page 8, line 27: Change "high" to "higher" Page 8, line 31: Change "significantly" to "significant" Page 9, line 4-6: This sentence is not worded well, suggest rewriting. Page 9, line 7: Change "the all" to "all the". Reverse order of words. Page 9, line 15: Change "controls" to "control" Page 9, line 15-25: This paragraph is difficult to read and follow, particularly the last couple sentences in lines 22-25. Suggest rewriting. Page 9, line 31-32: This sentence is not worded well, suggest rewriting. Page 9, line 32: Change "is" to "are" after "data" as data is a plural word Page 10, line 1: Change "that" to "those" Page 10, line 11: Deleted "called" Page 10, line 14: Add 's' to "lead" and change "cultures" to "cultured" Page 10, line 20: Add "factor" following "responsible" Page 10, line 24: Add 's' to "transfusion" to make plural. Page 10, line 29: Add 's' to "transfusion" to make plural. Page 10, line 30-32: This sentence is not word