

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 83009

Title: Analysis of oxidative stress and antioxidative potential in premature ovarian insufficiency

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06399140

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Syria

Author's Country/Territory: Japan

Manuscript submission date: 2023-01-06

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-01-09 05:24

Reviewer performed review: 2023-01-13 06:39

Review time: 4 Days and 1 Hour

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	[Y] Grade A: Excellent [] Grade B: Good [] Grade C: Fair [] Grade D: No scientific significance
Language quality	[Y] Grade A: Priority publishing [] Grade B: Minor language polishing [] Grade C: A great deal of language polishing [] Grade D: Rejection
Conclusion	[Y] Accept (High priority) [] Accept (General priority) [] Minor revision [] Major revision [] Rejection
Re-review	[] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [] Onymous
	Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

First of all, it is a well-written and organized paper. This paper is demonstrating the important role of the oxidative stress, which is a probable cause of many diseases and disorders, including POI. Consequently, this could mean the possible utilization of the oxidative stress occurrence as a biomarker for the early detection/prevention and treatment of POI.

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Peer-review model: Single blind

Reviewer's code: 05688164

Position: Peer Reviewer

Academic degree: BSc, MD, PhD

Professional title: Research Fellow

Reviewer's Country/Territory: Hungary

Author's Country/Territory: Japan

Manuscript submission date: 2023-01-06

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-01-16 14:59

Reviewer performed review: 2023-01-20 11:24

Review time: 3 Days and 20 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input type="checkbox"/> Anonymous <input checked="" type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

20 January 2023 Review report on the manuscript titled ‘The importance of oxidative stress and antioxidative potential in premature ovarian insufficiency’ by Kakinuma K & Kakinuma T, submitted to World Journal of Clinical Cases Manuscript ID: 83009 Dear Authors, In the present manuscript entitled ‘The importance of oxidative stress and antioxidative potential in premature ovarian insufficiency’, Kakinuma and Kakinuma studied the oxidative stress of diacron-reactive oxygen metabolites and biological antioxidant potential in premature ovarian insufficiency (POI). The main strength of this manuscript is that it addresses an interesting and timely question, revealing that oxidative stress was significantly greater in the POI and thus, oxidative stress is a potential biomarker in POI. In general, I think the idea of this editorial is really interesting and the authors’ fascinating observations on this timely topic may be of interest to the readers of World Journal of Clinical Cases. However, some comments, as well as some crucial evidence that should be included to support the authors’ argumentation, needed to be addressed to improve the quality of the manuscript, its adequacy, and its readability prior to the publication in the present form. My overall



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7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgooffice@wjgnet.com
https://www.wjgnet.com

opinion is to publish this manuscript after the authors have carefully considered my suggestions below, particularly expanding the body of the manuscript by adding more evidence. Please consider the following comments: 1. Title: I recommend that the authors present the title concise, self-explanatory, and stating the most important message of this manuscript. If possible, please avoid using abbreviation in the title. 2. Abstract: Please present the abstract with 200-250 words and proportionally present the background, the objectives, the short summary, and the conclusion. The background should include the general background (one to two sentences), the specific background (two to three sentences), and current issue addressed to this special issue (one sentence). The end of the result should include one to two sentences which put the result into a more general context. The conclusion should include one sentence describing the main message using such words like “Here we show”, the potential and the advance this article has provided in the field, and finally a broader perspective (two to three sentences) readily comprehensible to a scientist in any discipline. 3. Keywords: Please list relevant six keywords according to the journal’s guideline and use as many keywords as possible in the first two sentences of the abstract. 4. Introduction: This section is well written and nicely presented, summarizing POI and presenting the short summary of the following sections. Nevertheless, I recommend that the authors present and clarify the background, the specific background, and the current issue addressed to this article, leading to the objectives. I recommend that the authors abridge the general background, focusing on the constructs contributing to the specific background. For this purpose, the introduction is expected to provide the main constructs of the topic, which should be acknowledgeable to a reader in any discipline, so that the authors make this section persuasive enough to put forward the main purpose of current research the authors conduct and the specific purpose the authors have intended by this article. Thus, I expect the authors to present PIO, oxidative stress, and the current issue in a cohesive sequence.

5. Methods: I suggest citing more references to ensure the reliability and the integrity of evidence in study design the authors have decided to build and methodology they have applied. 6. Results: I recommend that the authors present a table presenting all statistical values. 7. Discussion: After the short summary of the results detailed in the previous sections, I recommend that the authors fully develop this section by focusing on the current issues addressed to this review. I suggest, toward the end of this section, clearly stating the potential of this study complementing as the extension of the previous understanding, the implication of the authors' opinion, how this article could facilitate future research, the ultimate goal, the challenge, the knowledge and the technology necessary to achieve this goal, the statement about this field in general, the importance of this line of research, and the limitation and the weakness of this study which have emerged on the surface in the course of this study and in translational applicability. 8. Finally, I believe that the manuscript would benefit from presenting a paragraph of conclusion, if the authors explain the theoretical implication as well as the translational application of this research by adequately conveying what they believe is the take-home message. I believe that it would be necessary to discuss theoretical and methodological avenues in need of refinement, as well as suggestions of a path forward in transplantation research. 9. Figures: Please present the figures in color. 10. References: I recommend presenting more references to ensure the reliability and the integrity in evidence that the authors develop the arguments in this editorial. Typically, a manuscript like this cites more than 60-70 references. Overall, the manuscript contains five figures, one tables, and 46 references. I believe that this manuscript may carry important value in investigating oxidative stress as the pathogenesis of POI. After careful revision, I hope that the manuscript can meet the journal's high standard for publication. I declare no conflict of interest regarding this manuscript. Best regards, Reviewer

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Peer-review model: Single blind

Reviewer's code: 05573818

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Chief Doctor, Surgeon

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2023-01-06

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-01-16 12:41

Reviewer performed review: 2023-01-21 16:07

Review time: 5 Days and 3 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
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
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Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Good <input checked="" type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 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 incidence of premature ovarian failure is gradually increasing, which is closely related to the physical and mental health of women. it is very necessary for early diagnosis and intervention of premature ovarian failure. this article comprehensively evaluates the oxidative stress in early ovarian failure and premature ovarian failure according to the oxidative stress and antioxidant potential in blood in order to determine the causes of premature ovarian failure. The possibility of oxidative stress and antioxidant potential as biomarkers of premature ovarian failure was studied, which has a certain clinical reference value for the early diagnosis and treatment of premature ovarian failure; 2. In this paper, the method of clinical case analysis was used to analyze and evaluate the related indexes of oxidative stress and antioxidation in the blood of patients with premature ovarian failure and healthy women of the same age with normal ovarian function. The direction is new, but the number of detection indexes and samples is relatively small. In the later stage, we can continue to collect clinical data and expand the number of samples, so that the follow-up pathological mechanism research has a more solid foundation; 3. Some charts can be added to make the expression of the



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Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

article more diverse; 4.The conclusion is too simple to clarify the main points of the whole article, and there is no research significance or deeper discussion.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Clinical Cases*

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Reviewer's code: 05688164

Position: Peer Reviewer

Academic degree: BSc, MD, PhD

Professional title: Research Fellow

Reviewer's Country/Territory: Hungary

Author's Country/Territory: Japan

Manuscript submission date: 2023-01-06

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2023-03-02 07:59

Reviewer performed review: 2023-03-06 08:39

Review time: 4 Days

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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

6 March 2023 The 2nd review report on the manuscript titled 'The importance of oxidative stress and antioxidative potential in premature ovarian insufficiency' by Kakinuma K & Kakinuma T, submitted to World Journal of Clinical Cases Manuscript ID: 83009 Dear Authors, I am pleased to see that the author took my comments seriously and have solved the issues I raised in the previous round of the decision session. Currently, the manuscript is a well written and nicely presented research article studying the oxidative stress of diacron-reactive oxygen metabolites and biological antioxidant potential in premature ovarian insufficiency. Overall, the manuscript contains six figures, one table, and 64 references. I believe that the manuscript meets the Journal's high standards for publication. I am looking forward to seeing more papers written by the same authors. I declare no conflict of interest regarding this manuscript. Best regards, Reviewer