

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 71577

Title: Changes and significance of retinal blood oxygen saturation and oxidative stress indexes in patients with diabetic retinopathy

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06058894

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Germany

Author's Country/Territory: China

Manuscript submission date: 2021-12-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-18 11:11

Reviewer performed review: 2021-12-30 11:06

Review time: 11 Days and 23 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 Grade E: Do not publish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 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
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SPECIFIC COMMENTS TO AUTHORS

I have read with great interest the manuscript entitled “Changes and significance of retinal blood oxygen saturation and oxidative stress indexes in patients with diabetic retinopathy”. The manuscript has delivered important clinical message and should be of great interest to the readers. Research is well conducted, statistics is appropriate and the findings are well detailed. However, some issues have to be addressed: 1. Please add the background description in the abstract; 2. In the discussion, the authors described that “Due to the characteristics of the disease, the mean age of patients with DR was relatively large, and the age and sex of patients in the control and experimental groups were not better matched.” However, based on the results of this study, the mean age of patients in the DR group was 65.8 ± 7.0 ; The mean age of control group was 64.4 ± 8.1 , $P=0.201$. There was also no significant difference in gender between the two groups ($P=0.274$). Why do you say the two groups “not better matched”? Thank you for giving the opportunity to review this manuscript.

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Reviewer's code: 06058770

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Indonesia

Author's Country/Territory: China

Manuscript submission date: 2021-12-13

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-18 11:11

Reviewer performed review: 2021-12-30 11:07

Review time: 11 Days and 23 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
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

I read the manuscript written by Xiaoli Wang and others with great interest. In my honest opinion, the topic is interesting and the retrospectively studies novel enough to attract the readers' attention. This might provide additional information for clinical diagnosis and treatment of DR. Title: Appropriate. It reflects the main content of the study. Authorship: Is correct. Institutions: are correct. ORCID number: is correct. Abstract: Is a structured abstract according to the required format. In 329 words authors showed a summary of the content of the manuscript. However, the background needs to be supplemented, and results part needs to be more concise. Key words: 4 that reflect the content of the study. Core Tip: In 136 words authors reflect properly aspects that should call attention to the readers. Background: DR is a complication of diabetes and the long-term prognosis for late DR is not optimistic. Many questions still need further investigation. Method: Authors made the detailed description of the investigations. Results: The author clearly presents the data to be observed in the method. Discussion: Authors made a detailed an informative discussion of the results. Illustrations: They show 5 figures and 3 tables with their corresponding legend. All figures and tables are showing clearly making and adequate support of the results. Biostatistics: This work met the requirements of biostatistics. References: The references are quite appropriate to the subject of research. Comments to the author: In this manuscript authors investigate the changes of blood oxygen saturation and oxidative stress indexes of retinal vessels in patients with DR. Their findings contribute to clinical diagnosis and treatment of patients with DR.

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Reviewer's code: 06058797

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Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

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**Baishideng
Publishing
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

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

Authors discussed an interesting topic about the changes of blood oxygen saturation and oxidative stress indexes of retinal vessels in patients with DR. Overall, the study is very well designed and the results are very interesting. Authors succeed to present their data in a clear way adding information to the existing literature. Therefore, I have no corrections to do and the manuscript can be published unaltered.