

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 69840

Title: p66Shc-mediated oxidative stress is involved in gestational diabetes mellitus

Reviewer's code: 06058842

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2021-07-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-25 23:53

Reviewer performed review: 2021-07-30 09:40

Review time: 4 Days and 9 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 Grade E: Do not publish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 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

This study investigated the expression of Drp1 and p66Shc and its possible mechanism in the pathogenesis of GDM. They report the results of the expression levels of Drp1 and p66Shc in GDM and the human trophoblast cell line of JEG3. The increased expression of p66Shc induced by high glucose can activate Drp1 and promote ROS overproduction, which may be the primary cause of cell damage and apoptosis during the occurrence and development of GDM. Compared with the group women without GDM, the p66Shc mRNA level was increased in serum and placentas of GDM, and the Drp1 mRNA level and protein expression were also increased in placentas. In JEG3 cells treated with 30 mM glucose, the mRNA and protein expression level of p66Shc and Drp1 were increased at 24h, 48h and 72h, and the ROS expression was also increased. A high level of Drp1 and ROS expression were detected in JEG3 cells transfected with wt-p66Shc, and a low level with p66Shc siRNA. The article is well written, and the idea of the study is novel. The text is strictly logical. The results are interesting. The figures and tables help the readers to make a more understanding of the study; however, Figure 2, 3E and 4C are not very clear. What is the magnification power used, it should be noted on the figures. I recommend that the manuscript can be published.

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 69840

Title: p66Shc-mediated oxidative stress is involved in gestational diabetes mellitus

Reviewer's code: 06058769

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: China

Manuscript submission date: 2021-07-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-25 23:53

Reviewer performed review: 2021-08-02 01:46

Review time: 7 Days and 1 Hour

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

Dear Sir, I read with interest the manuscript entitled "p66Shc-mediated oxidative stress is involved in gestational diabetes mellitus". The manuscript is well designed and written. The introduction gives a good overview about the topic and the procedures are precisely described. The results were well discussed. However, some issues have to be addressed: 1. The images and tables are relevant and informative, and the conclusion tries to provide a theoretical basis and practical reference for the primary cause of cell damage and apoptosis during the occurrence and development of GDM. Editing and proofreading are needed to maintain the best sense of reading; 2. The discussion section is general and should discuss the results of this present study more precisely; 3. and main issue: The overall number of subjects is not very large. In my opinion this is a controlled observational study. How many patients have been excluded in the past few years? Please add limitations of your study the direction of more future studies to the discussion, if possible. Thank you for giving the opportunity to review this manuscript.

PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 69840

Title: p66Shc-mediated oxidative stress is involved in gestational diabetes mellitus

Reviewer's code: 06058856

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: United Kingdom

Author's Country/Territory: China

Manuscript submission date: 2021-07-22

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-07-25 23:53

Reviewer performed review: 2021-08-05 09:34

Review time: 10 Days and 9 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 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

Manuscript Title: p66Shc-mediated oxidative stress is involved in gestational diabetes mellitus. 1- Title reflected the main subject of the manuscript. 2- The abstract summarized and reflect the described in the manuscript. 3- Key words reflected the focus of the manuscript. 4- The manuscript adequately described the background, presented status and significance of the study. 5- The manuscript described methods (e.g., patients, Collection and processing of specimens, Cell culture, Cell transfection, RNA isolation, qRT-PCR, Hematoxylin-eosin staining and immunohistochemistry, Reactive oxygen species detection by dihydroethidium, Western blotting and Statistical analysis, etc.) in adequate detail. 6- The research objectives are achieved by the experiments used in this study. Authors investigate the expression of Drp1 and p66Shc and its possible mechanism in the pathogenesis of GDM. 7- The manuscript interpreted the findings adequately and appropriately, highlighting the key points concisely, clearly and logically. 8- Manuscript included sufficient, good quality Tables and Figures. 9- The manuscript cited appropriately the latest, important and authoritative references in the introduction and discussion sections. 10- The manuscript is well, concisely and coherently organized and presented and the style, language and grammar are accurate and appropriated.